Trio complete...

\[ \text{[CH}_3\text{(CH}_3\text{)]}_3\text{N} \]

Triexylamine (Eastman 6372) has been suggested as an activator in self-curing acrylic resins. In making some for a recent request we found that our synthesis had produced along with it a considerable quantity of dibexylamine. Naturally, the thing to do was to purify it and add it to our list along with hexylamine, our starting material. Thus, we completed another neat little homologous series. Such series constitute an important part of our business—one which teachers and many researchers tell us vastly helps them in their business.

**Knack...**

\[ \text{N(CH}_3\text{)}_2 \]

Dimethyl-o-naphthylamine (Eastman 1060) is an excellent reagent for the determination of sulfanilamides (a procedural abstract is yours for the asking), but only if prepared in a certain way. It took our specialists in that compound a long time to work it out, but they have it down just right now to justify the special catalog designation, “For Sulfanilamide Test.”

**The beans spoil...**

\[ \begin{align*} 
\text{NH}_2 \\
\text{CH}_3\text{CHCOOH} \\
\text{OH} \\
\text{OH} 
\end{align*} \]

dl-3-(3,4-Dihydroxyphenyl)alanine (Eastman 4915) is also known as the “DOPA” reagent (the initials of the German version of its name). It’s a reagent to indicate active melanogenesis and to study numerous biochemical oxidation reactions. It’s useful in certain blood chemistry tests, as summarized in an abstract we can send you on request. Preparing the compound itself is quite a triumph. When you try to isolate the l isomer from velvet beans, you lose most of it through the spoilage frequently encountered in extractions from natural raw materials. So we turn to synthetic chemistry and get the racemic mixture.

Perhaps more important for your own research, development, or analytical work are others of the more than 3400 compounds you can order from our List No. 37. If you don’t have a copy, write to Distillation Products Industries, Eastman Organic Chemicals Department, Rochester 3, N.Y. (Division of Eastman Kodak Company).

**Eastman Organic Chemicals**

for science and industry

Also... vitamins A and E... distilled monoglycerides... high vacuum equipment
A definitive work by 34 experts

**HANDBOOK of EXPERIMENTAL PSYCHOLOGY**

Edited by S. S. Stevens, Harvard University, with 34 contributors. This is the most complete coverage of experimental psychology available in a single volume. Leading scientists from fields of physiology, psychology and medicine have combined their varied knowledge and experience in this book which has been designed to fill the gap between elementary textbooks and specialized journals. There is authoritative data on neurophysiology . . . homeostasis . . . endocrine functions . . . measurement . . . psychophysics . . . sensory functions . . . learning . . . motivation . . . perception . . . selection . . . training . . . applied experimental psychology and many other fields of applied psychology. *April 1951. Approx. 1382 double-column pages. 618 illus. Prob. $12.50.*

Systematizes conflicting data on abilities

**The STRUCTURE of HUMAN ABILITIES**

By Philip E. Vernon, University of London. Brings together results of a number of American and British research projects which seem to give contradictory accounts of mental structure and shows how they fit into a consistent picture. Explains the basic ideas of factorial analysis and shows why this method has such practical importance. *February 1951. 151 pages. $2.75.*

Surveys recent adsorption procedures

**PROGRESS in CHROMATOGRAPHY, 1938-1947**

By L. Zechmeister, California Institute of Technology. This book surveys the recent adsorption procedures applicable to problems in chromatography. Employing a “progress report” method, the author reviews the adsorption processes which have been presented and developed from 1938 to 1947. This is an extension of the previous volume, *Principles and Practice of Chromatography*. *February 1951. 368 pages. $8.00.*

Presents hydrazine as a promising commercial chemical

**The CHEMISTRY of HYDRAZINE**

By L. F. Audrieth and Betty Ackerson Ogg, both at the University of Illinois. This is a comprehensive treatment of hydrazine and its derivatives. It gives the important physical and chemical characteristics, reducing properties, and methods of formation and preparation of hydrazine and its compounds. It features a survey of the many potential uses of hydrazine whose interesting hydronitrogen properties were discovered and developed during World War II. *March 1951. 244 pages. $5.00.*

Send for copies on approval.

**JOHN WILEY & SONS, Inc.**

440 Fourth Ave., New York 16, N. Y.

March 30, 1951
For PERSONNEL PLACEMENT rates and information see page 20, March 23rd issue

Assistant Pathologist: starting immediately—500 bed general hospital affiliated with State University Medical School. Write: Division of Laboratories, Maimonides Hospital of Brooklyn, 4802 Tenth Avenue, Brooklyn 19, New York.

Aquatic Biology Extension Agent, qualifications: Master's Degree in Biology and one year's experience in related work. Typing and teaching experience desirable. For details write to the Director, Virginia Fisheries Laboratory, Gloucester Point, Virginia.

BIOCHEMIST

Opening for research associate to do applied research and development in biochemistry. Involves both lab. & pilot plant work, supervision, and trouble shooting. M. S. required in biochemistry or organic chemistry. Salary $4000. Please send resume including experience, age and salary desired to:

BOX 457, SCIENCE

Bacteriologist: M.S., 27, available in July. Desires teaching position. Research and Teaching experience. Box 463, SCIENCE.

Botanist-microbiology-mycolology, Ph.D. Desires teaching or industrial post. Eight years teaching and research experience. Publications. Box 463, SCIENCE.

Endocrinologist-Biochemist: 29, Ph.D. this August, trained in cell physiology. Desires research or teaching position. Box 460, SCIENCE. 3/30

Endocrinologist-Enzymologist, AEC Pre-doctoral fellow in endocrinology, NIH. Post-doctoral fellow in enzyme chemistry. Interests also include Embryology. Will be at the meetings. Box 476, SCIENCE.

Entomologist, B.S. (Biology), M.Sc. (Entomology). Broadly trained in biological science; experienced in university teaching and research. Especially interested in the ecological aspects of entomology. Desires position with opportunity for advancement and independent investigation. Box 467, SCIENCE.

Entomologist: Ph.D. Morphology and Structural Geology in Mid-West, over 4 years lobbying experience. Interested in attractive teaching position. Box 451, SCIENCE.

Pharmacist: Ph.D., Palmolive department. Available June. Box 457, SCIENCE.

Geophysicist: M.S., Sc.D., now associate professor of Geophysics and Structural Geology in Mid-West, over 4 years lobbying experience. Interested in attractive teaching position. Box 457, SCIENCE.

Industrial Mathematician, recent Ph.D., veteran, 3 years Army Signal Corps, 4 years mathematics staff chemical engineering company. Experience in partial differential equations, application of numerical, statistical methods to industrial problems of heat transfer. Desires responsible position with industrial research or development group. Available on short notice. Box 471, SCIENCE.


Physicist: Professor (Ph.D.) and Head of Physics Department of midwestern state university (about two thousand students) desires to make a new connection with a university whose research facilities are more ample than are possible in the present connection. Interests in both theoretical and empirical Physics (e.g. relativity theory; electromagnetics; microwave electronics; ion accelerators). Prefers a university in or near a metropolitan center. Headship of department not a necessary condition in contemplated change. Box 465, SCIENCE. 4/6.

Physiatrist, several years teaching experience, interested in Summer School teaching. Box 469, SCIENCE.

Physiologist: Ph.D., experienced in university teaching, and minor in metabolic research with radioactive isotopes. Box 460, SCIENCE.

Zoologist (Ph.D. Parasitology). Desires teaching position with opportunity for research. Five years' college teaching experience. Available Sept. '51. Box 466, SCIENCE.


Zoologist: Ph.D., 29, 4 years university teaching experience in variety of undergraduate courses. Research field: Drosoptera developmental genetics. Desires teaching or research position. Box 461, SCIENCE.

Botanist, Ph.D. Columbia '50; desires teaching and/or research position. General botany, morphology, anatomy, taxonomy. Box 449, SCIENCE.

Graduate Assistantships—available for Sept., 1951. Load 12 or 6 hours per week. Remainder of time available for graduate work leading to Master's degree, stipend $1,100 or $550. Dept. of Chemistry, Howard University, Washington 1, D.C.

Pharmacist: California or New York Registration with experience in pharmaceutical manufacturing to take charge of penicillin and pharmaceutical specialties production includingointments, powders and liquids for west coast firm. Salary open depending on qualifications. Box 472, SCIENCE.

Ph.D. in Physics. Qualifications: Training and experience in solid state and dielectric phenomena. Full time classified research, teaching optional. Ph.D. in Physical Chemistry. Qualifications: Training and experience in chemical kinetics, thermodynamics, strong organic chemistry. Full time classified research, teaching optional. One Opening: Part-time classified research in Physical Chemistry (physical properties of organic compounds), part-time work toward Ph.D. Salary up to $2400 for 11 months. Two Openings: Part-time classified research, part-time work toward a Masters Degree in Physical Chemistry, and Electronic Engineering. Salary up to $1800 for 11 months. One Opening: Part-time classified research, part-time work toward a Masters Degree in Physics. Candidate experienced in electron microscopy and diffraction, or X-ray diffraction or spectroscopy preferred. Salary up to $1800 for 11 months. Salaries according to qualifications and experience. Please apply to Director, Institute of Science and Technology, University of Arkansas, Fayetteville, Arkansas. Interviews at Boston and Cleveland A.C.S. meetings.

Positions Open:
(a) Scientist trained in bacteriology, chemistry and endocrinology, to direct research, department of obstetrics-gynecology, university medical school; $5,600-$6,000. (b) Metallurgist or Physical Chemist experienced in gas plating. Food Chemist and Bacteriologist with fermentation pilot plant experience; research and development organization; expansion program. (c) Investigator, M.D. or Ph.D., qualified to conduct research in cancer relating to steroids; university center; East. (d) Physician or Ph.D. in Pharmacology, Physiology or Psychology; duties administrative including clinical research; pharmaceutical industry; opportunity of becoming medical director; East. (e) Biochemist familiar with electrophoresis, ultracentrifuge and general protein work; industrial company, Midwest. (f) Ph.D. Pharmacy or Pharmaceutical Chemistry; product development: $5,000-$5,750; Midwest. S-3 S Division, Medical Bureau (Burneise Larson, Director), Palomivo Building, Chicago.

Young Ph.D. trained in chemical histology. Unusual opportunity for research and advancement in Department of Pathology of Dental School affiliated with Medical School of Middlewiust University. Starting salary $4500. References. Box 452, SCIENCE.

Zoologist: Ph.D., Invertebrate Zoology, for senior appointment in Central Canadian University. Successful teaching and research experience essential. Duties commence September, 1951. Box 452, SCIENCE.

positions open
WANTED TO Your at Send are LINGUAPHONE us At Oriental STECHERT-HAFNER, INC., Boston 19, Massachusetts


ANIMAL METHODS.

It’s Quick, Easy Fun to Learn a Language by LINGUAPHONE

At home learn to speak Spanish, French, German, Russian, the Oriental languages by quick easy Lungsaphone Conversational Method. Save time, work, money. Send for free book today.

7 languages approved for VETERANS’ Training

LINGUAPHONE INSTITUTE • 8403 Rockefeller Plaza, New York 20

WHITE SWISS MICE 20c and up

Rabbits, Cavies, White Rats, Ducks, Pigeons, Hamsters

Write • J. E. STOCKER • Ramsey, N. J.

REAGENT ORGANICS

2,4,7-Trinitrofluorone, Girard’s Reagents
2,5,5-Triphenyl Tetrazolium Chloride
2-Hydroxy-3-naphthoic Acid Hydrazide, Naphthyl Laurate
Blue Tetrazolium, Anthrone, 2,4-Dinitrofluorobenzene

Write for others

DAJAC LABORATORIES — Cornelia 7-2221
3430 W. Henderson St. Chicago 18, Ill.

HYPOPHYSECTOMIZED RATS

Shipped to all points via Air Express

For further information write

HORMONE ASSAY LABORATORIES, INC. • 808 E. 58th St. Chicago 37, Ill.

L-PROLINE—Hydroxyproline, L-Methionine

AMINO ACIDS • BIOCHEMICALS

PRE-MIXED MICROBIOLOGICAL ASSAY MEDIA

H. M. CHEMICAL COMPANY, LTD.

144 North Hayworth Avenue Los Angeles 48, California

STAINS

STARKMAN Biological Laboratory

RARE • COMMON

Price list on Request

461 Bloor St. W. Toronto, Canada

ROGER • CAMERA TIMER

for time-lapse cinematography as used in many well-known institutions, here and abroad, for the study of slow processes.

MICRO-CINEMA EQUIPMENT.

ROLAB Photo-Science Laboratories SANDY HOOK, CONNECTICUT

* Formerly with Dr. Alexis Carrel.
GENERAL ZOOLOGY. New 2nd edition
By Tracy I. Storer, University of California at Davis. McGraw-Hill Publications in the Zoological Sciences. Ready in March
A general introductory text for colleges, the second edition of this well-known text has been revised for the incorporation of recent developments. Part I consists of general animal biology, including structure, physiology, reproduction, genetics, ecology, etc. Part II covers the animal kingdom from Protozoa to man. A revised edition of the laboratory manual to accompany General Zoology will be available.

THE INVERTEBRATES: Volume II. Platyhelminthes and Rhynchocoela 550 pages, $9.00
THE INVERTEBRATES: Volume III. Acanthocephala, Aschelminthes, and Entoprocta Ready in April.
These two additional volumes of Dr. Hyman’s monumental reference work offer a complete, detailed, and modernized account of the anatomy, embryology, ecology, and physiology of the groups included. Not intended as texts, these volumes are rather treatises for the advanced student and teacher of zoology. The author has purposefully avoided the type plan of arrangement, and the presentation is for the group in general, rather than for the particular species. Both volumes are essentially a compilation from the literature on the subject; however, a considerable amount of original material is included.

EVOLUTION. New 2nd edition
Treats evolution from the genetic standpoint. This treatment includes the origin of change by mutation and chromosome reorganization, demonstration that such changes occur in nature, recombination of such changes in sexual reproduction, polyploidy, geographic races, reproductive isolation, the formation of societies (including man’s), and the origin of life.

Send for copies on approval

McGRAW-HILL BOOK CO., INC.
330 WEST 42ND STREET, NEW YORK 18, N. Y.
Through...

SPENCER Research

Comes a Complete New Series of

MICROTOME KNIVES

AO Scientists are constantly searching for better materials and improved methods for manufacturing superior microtome knives.

Made of tough, improved steel rigidly controlled during heat treatment for grain size, carbide size, and hardness, these new knives are carefully ground and honed on revolutionary new equipment. As a result the edge is keen, straight, and extremely wear resistant. "Mirror finishing" gives extra corrosion resistance.

Discover for yourself what the extra quality and uniformity offered by these competitively priced AO Microtome Knives can do to improve your specimen sections. See your AO Distributor or write Dept. P5.

American Optical

INSTRUMENT DIVISION • BUFFALO 15, NEW YORK