

Alfred 2004

Aldrich

Alfred Aldrich

1922-2004

QUEEN'S UNIVERSITY ARCHIVES	
LOCATOR	5169
BOX	10
FILE	7







**ALDRICH CHEMICAL COMPANY**

**SEVENTH ANNUAL  
SERVICE AWARDS DINNER**

**OCTOBER 22, 1988**

A special thanks to the employees of Aldrich Chemical Company. Your hard work and dedication over the years have helped make Aldrich the fine company that it is today.

**PROGRAM**

Cocktails

Dinner

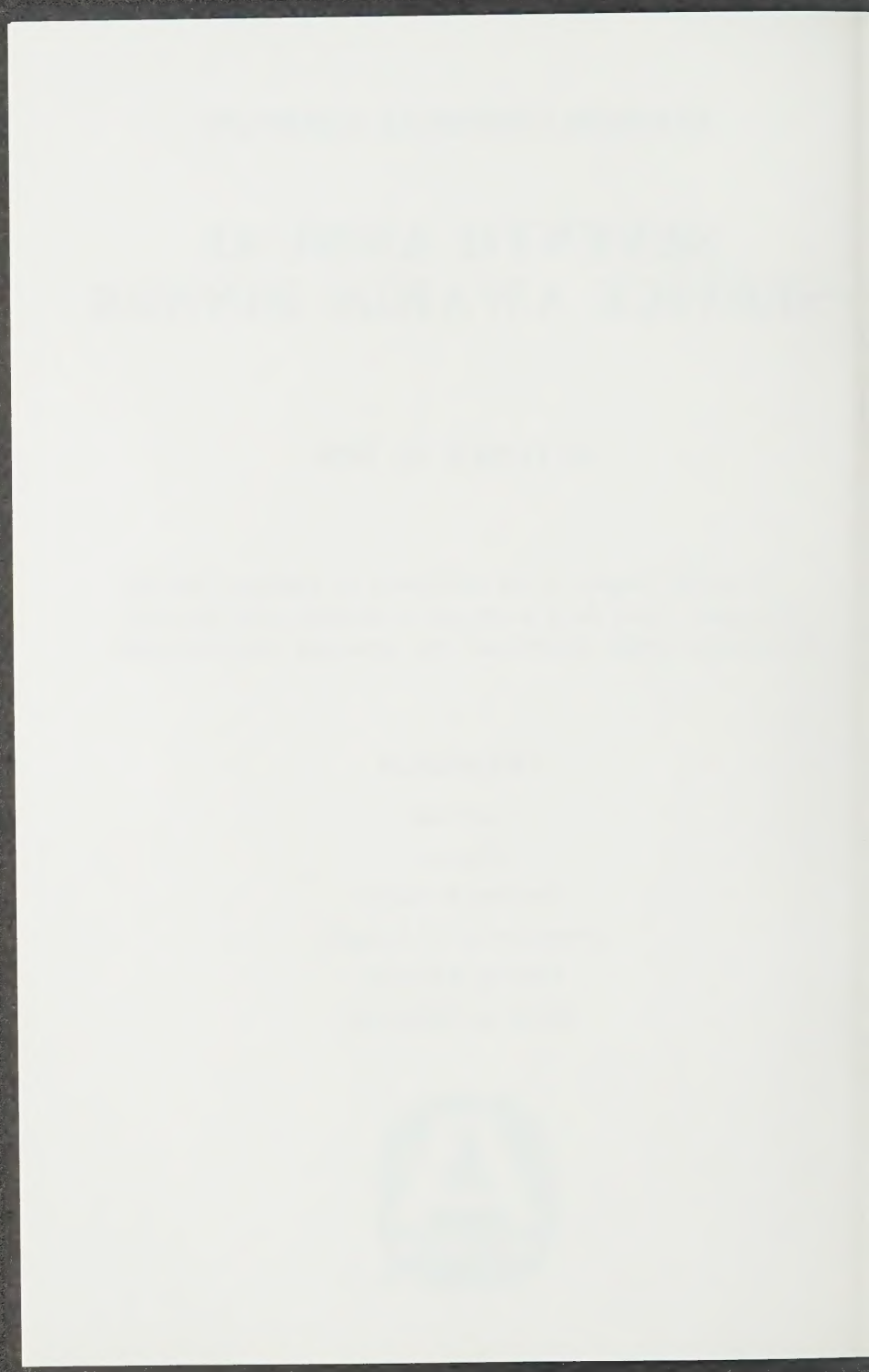
Opening Remarks

Presentation of Awards

Closing Remarks

Music and Dancing





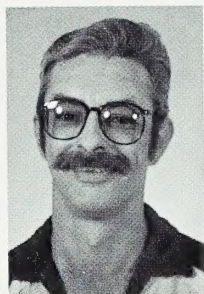
## 5 Year Awards



Todd Anderson



Jacquynn Behnke



Reginald Bouchard



Bill Brekke



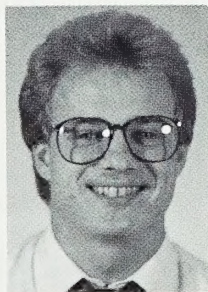
Maurice Cocos



Robert Crusan



Barbara Duchaine



Brian Gustafson

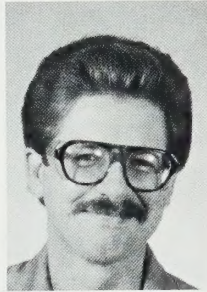


Cynthia Hanke

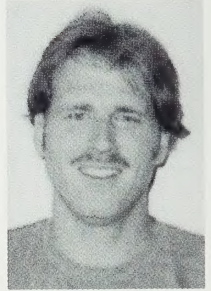
## 5 Year Awards



Constance Harder



Alan Harrington



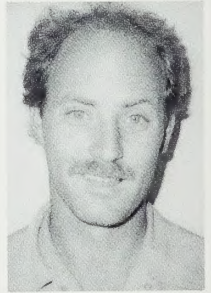
Charles Henke



Diane Henschel



Robert Lafond



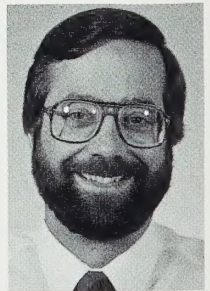
Anthony Mauer



Jill Pallo



Lincoln Paul



Joseph Porwoll



## 5 Year Awards



Mark Schneider



David Sorrem



Dorene Starrett



Ledi Walusayi

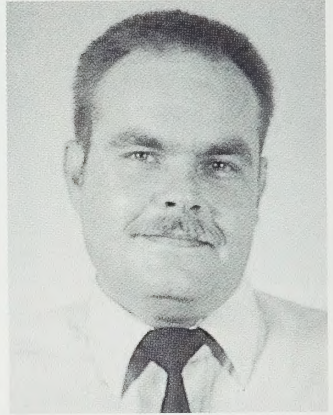


Gary Zynda

## 10 Year Awards



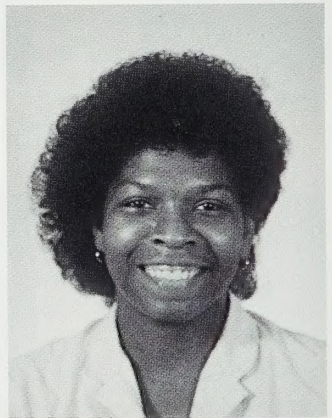
Ruth Wantz  
Quality Control  
January 1, 1978



Stephen Kolodij  
Warehouse  
January 16, 1978



Rosemarie Fox  
Shipping  
January 23, 1978



Debra Kelley  
Glass Shop  
January 30, 1978

## 10 Year Awards



Thomas Fandre  
Maintenance & Engineering  
February 6, 1978



John Long  
Purchasing  
April 10, 1978



Mark Poniewaz  
Production  
May 1, 1978

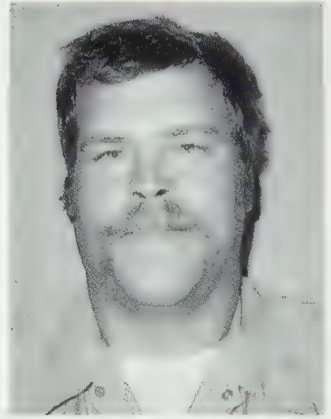


John Kelly  
Production  
May 26, 1978

## 10 Year Awards



Brian Barbuch  
Sheboygan  
June 19, 1978



Gene Fisher  
Sheboygan  
June 29, 1978

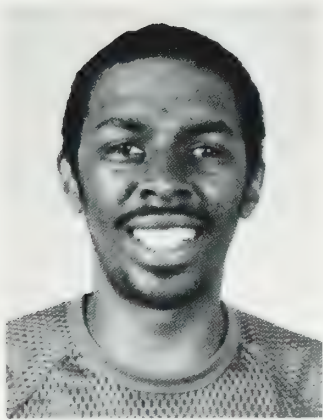


Kurtis Kleparski  
Sheboygan/Safety  
July 17, 1978

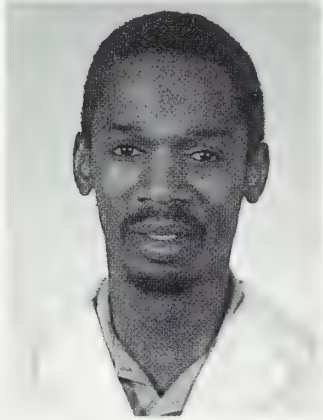


Cynthia Daniels  
Graphic Services  
August 7, 1978

## 10 Year Awards



Bobby Thomas  
Warehouse  
August 7, 1978



Earl Jackson  
Pilot Plant  
October 16, 1978



Ronnie Martin  
Quality Control  
November 6, 1978



Frances Greve  
Accounting  
November 13, 1978

## 10 Year Awards



Kimberly Johnson-DeShong  
Packaging  
December 4, 1978



Gloria J. Perry  
Purchasing  
December 4, 1978



Rhonda Timmons  
Packaging  
December 4, 1978



Angelena Harris  
Shipping  
December 11, 1978

## 10 Year Awards



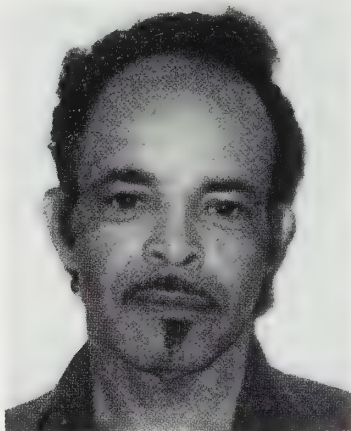
Gary Waarvik  
Pilot Plant  
December 13, 1978

Picture Unavailable  
Lester McGill  
Packaging  
March 27, 1978

Picture Unavailable  
Gloria Lane  
Packaging  
September 25, 1978

Picture Unavailable  
Joann Grabowski  
Packaging  
November 13, 1978

## 15 Year Awards



Dardeen Anderson  
New Jersey  
January 10, 1973



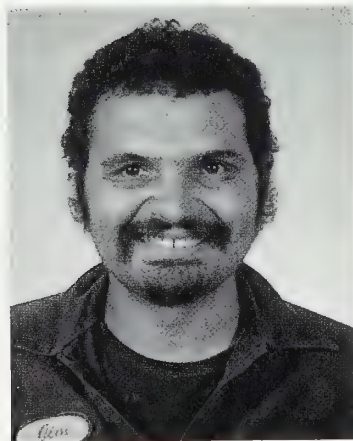
John Daniels  
Sheboygan  
January 15, 1973



## 15 Year Awards



Doris Lamontagne  
Purchasing  
January 17, 1973



James Kurtz  
Maintenance & Engineering  
January 26, 1973

## 15 Year Awards

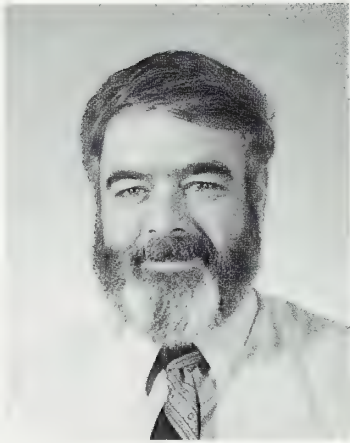


Diane Shuder  
Packaging  
February 14, 1973



Emily Lisztwan  
Packaging  
April 3, 1973

## 15 Year Awards



Andrew Smith  
Data Processing  
December 4, 1973

Picture Unavailable  
Rodney Podd  
Shipping  
August 31, 1973

## 20 Year Awards



Mary Lent  
Shipping  
February 19, 1968



Barbara Feustel  
Customer and Order Services  
June 1, 1968

## 20 Year Awards

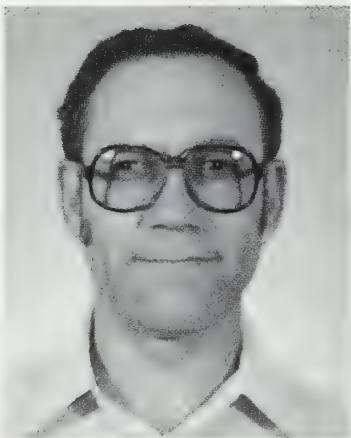


Anna Napiorkowski  
Quality Control  
July 1, 1968



William Helmin  
Packaging  
September 9, 1968

## 20 Year Awards



Robert Lewis  
Production  
September 16, 1968



Frank Di Pierro  
Isotopes  
September 23, 1968

## 25 Year Awards



Henry Koppel  
Bulk Sales  
January 21, 1963



John Riedmaier  
Production  
December 12, 1963

## 30 Year Awards



Paul Freeman  
Production  
September 2, 1958



Phillip Holm  
Pilot Plant  
September 7, 1958



## *Retirees*

Helen Bader  
Frank Brecka  
Frances Calafut  
Ruby Cook  
Sara Edelstein  
Emil Glasberg  
Ruth Gormley  
Floyd Green  
Lillian Hanson  
Howard Hasz  
Ernst Herf  
Lorraine Hill  
Ruth Hillmantle  
Ruth Hoffman  
Dick Koehler  
Mary Krutz  
Pauline Kudrin  
Vera Laszlo  
Bernadine Majeski  
Rudolph Manriquez  
Ella Markovits  
Luise Menghini  
Sophia Moritz  
Mildred Prather  
Ronald Reck  
Elfriede Rothe  
Myrtle Schmitt  
Regina Schultz  
Verona Shuda  
Gerald Slagle  
Lorraine Van Patten  
Elaine Warnke

## *Previous Recipients*

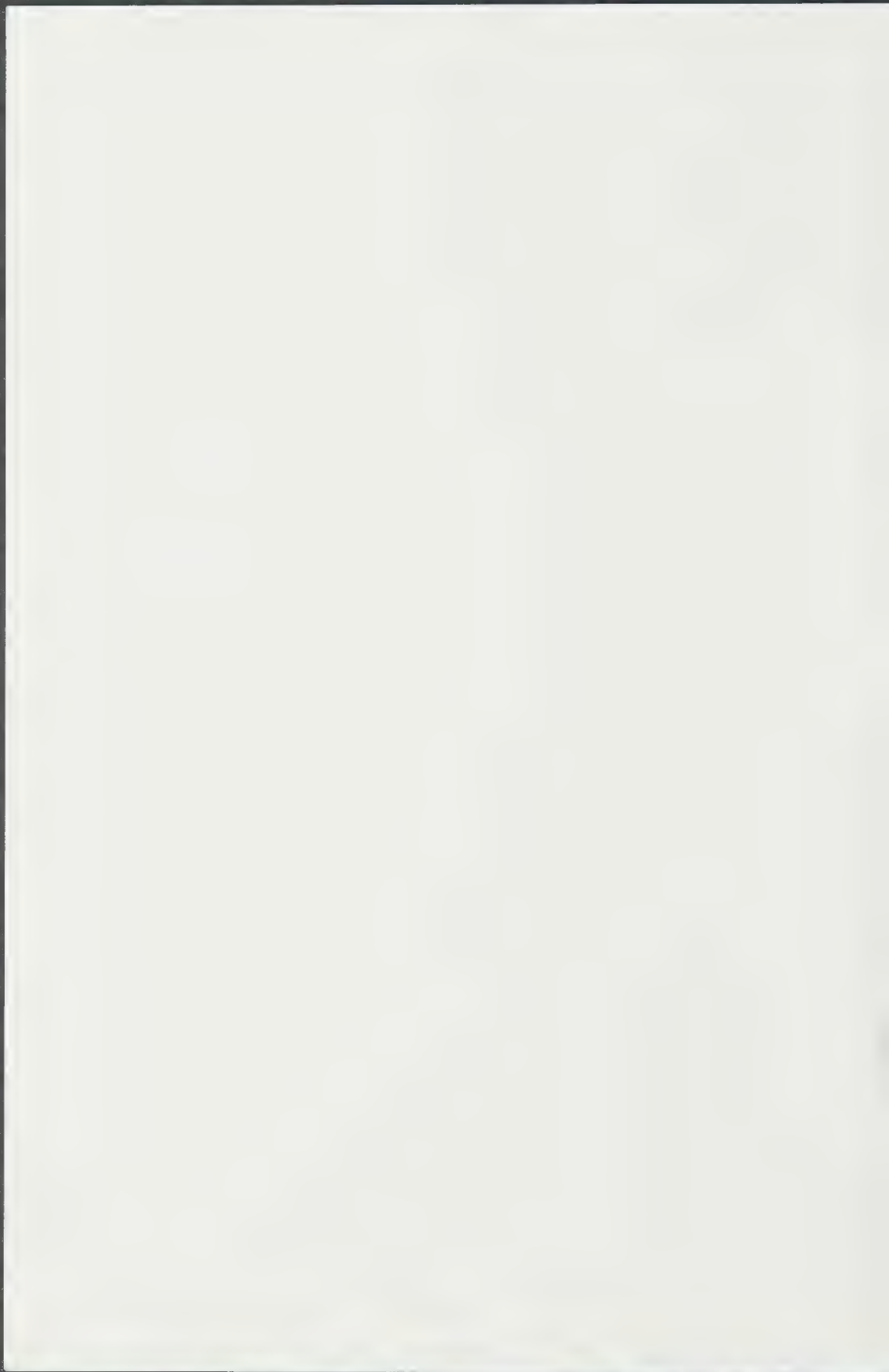
Wayne Adler	Tito Delgado	Beverly Horick
Waheeduddin Ahmed	Frank Di Piero	Linda Ingalls
Carl Alberts	Arlene Dorman	Earl Jackson
Dardeen Anderson	Daniel Duchesneau	Robert Jakubiak
Martha Anderson	Patrick Duffy	Dolores Jenkins
Steven Archer	William Early	Michael Jensen
Ralph Arndt	Alma Edwards	Kimberly Johnson-DeShong
June Atkins	Mark Eisold	Ramona Jules
Leeanna Attaway	Randall Eisold	Gary Karas
Alfred Bader	James Evans	Russell Kasprzak
Carol Bahrke	Thomas Fandre	Linda Kehren
Brian Barbuch	Richard Farrell	Debra Kelley
Mary Barnes	Barbara Feustel	Steven Kellogg
Julia Barnes	Gene Fisher	John Kelly
Cynthia Barton	JB Fisher II	Jeffrey Kett
Christine Benson	Lyle Fox	Carmen Kirkland
Robert Bessey	Rosemarie Fox	Bruce Klein
Carl Biller	Dan Franks	Kurtis Kleparski
Mark Borenstein	Paul Freeman	Michael Kloss
Evelyn Boulton	Sharon Fujihira	Irwin Klundt
Shirley Bourgeois	Lee Gantenbein	Stephen Kolodij
Stephen Branca	Robert Gorzek	Henry Koppel
Robert Branski	Donna Gottsacker	Cynthia Kopperud
David Brent	Joann Grabowski	Kristine Korthoff
Diana Brien	Gertrude Gray	Timothy Koss
James Brien	Frances Greve	Mary Kozlowski
Jean Brockmeyer	David Griffiths	Michael Kozlowski
Phyllis Brown	Patricia Gunther	Phyllis Kratzer
Richard Bruesewitz	Jean Hames	Timothy Kreinus
Delores Buckner	Angelena Harris	Kathryn Krupp
Walter Capelle	David Harvey	James Kurtz
Michael Carroll	Marilyn Hassmann	Robert Laitinen
Barbara Chambliss	William Helmin	Doris Lamontagne
Berteau Coleman	Jennifer Hemme	Clinton Lane
Helen Collick	Shirley Herron	Gloria Lane
Larry Cooper	William Hildebrandt	Patricia Lasink
Doris Cunningham	Claude Hisey	Lisa Lathers
Lee Curry	Mary Jane Hoffman	Youngman Lee
Dieter Damrow	Jeauan Hofmann	Robert Lenga
Cynthia Daniels	Phillip Holm	Mary Lent
John Daniels	Timothy Holt	Robert Lewis

## *Previous Recipients*

Emily Lisztwan  
Donald Loback  
John Long  
David Lubus  
Michael Lum  
Gary Lusz  
Richard Machmueller  
Kenneth Makowsky  
Valli Males  
Thomas Malitz  
Rosie Malone  
Ronnie Martin  
Michael Matzke  
Lester McGill  
Cheryl McQueen  
Milan Mehta  
Delores Menehan  
Marian Metz  
Thomas Mirr  
Jacqueline Mititch  
George Monnie  
Barbara Moore  
Cynthia Morrow  
Glen Mrotek  
Jai Nagarkatti  
Anna Napiorkowski  
James Nash  
John Neafsy  
Charles Nichols  
Leila O'Dean  
Brian O'Neill  
Sandra O'Neill  
Thomas Pappone  
Margaret Parham  
Kanailyalal Parikh  
Don Pavlak  
Gloria J. Perry  
Clarence Peterson  
Keith Pierce  
Rodney Podd  
Norbert Pokrzewinski  
Mark Poniewaz  
Donna Poth  
Charles Pouchert  
Judith Pruss  
Frank Purdy, Jr.  
Kathryn Pykett  
Jonathan Pykett  
Roger Quinn  
Jeffrey Quint  
John Radke  
Abolfazl Rahmani  
Douglas Reamer  
Joseph Rebarchik  
Jeffrey Reimer  
David Reinmuller  
John Riedmaier  
Leonard Rochwerger  
Christine Roeder  
David Rogers  
Mattie Roper  
Stephen Roschyk  
Mark Rossman  
Timothy Rossman  
Alfonse Runquist  
Marie Ruppel  
Barbara Saladin  
Thomas Salow  
James Sanders  
William Sapp  
James Sarafin  
Dennis Schilling  
Peter Schreiber  
Colleen Schroeder  
Chris Schroeder  
Steven Schultz  
Joseph Serketich  
Jacqueline Settingsgaard  
William Sharp  
Terry Shea  
Young Ho Shin  
Nelgene Shortridge  
Diane Shuder  
Brian Siegel  
George Skeff  
Andrew Smith  
Rich Smrcina  
Shahram Solati  
Paul Stachnik  
Deborah Stadick  
Lee Stanton  
Scott Stoltzmann  
Eugene Sulkowski  
Kevin Swanson  
David Swessel  
William Szabo  
June Tate  
Bobby Thomas  
Rhonda Timmons  
Patrick Trainor  
Dorothy Tucker  
Wayne Uhler  
Gary Waarvik  
Clifford Walker  
Eddie Walker  
Kenneth Wallace  
Ruth Wantz  
Marylyn Ward  
Stella Ward  
Linda Weatherall  
Roger Weber  
Rosemary Wettberg  
Thomas Wickersham  
John Wicks  
Michael Wild  
Carl Wondra  
Francis Young  
David Yurk













## ABOUT OUR COVER



The alchemist reproduced on our cover is part of one of the most beautiful alchemical paintings we know. The greatest artists - Rembrandt, Velasquez, Vermeer - unfortunately did not paint alchemical subjects, but many of the lesser known Dutch artists did, and this is by one of these, Cornelis Bega, painted around 1660.

Bega must have liked the subject because he painted it with many minor variations at least twice, the second version being the well known smaller work in the collection of the Fisher Scientific Company. An essay in our *Aldrichimica acta*, 4, 17 (1971) discusses the relationship of the two paintings.

To us the painting is a thing of great beauty, of immediate interest to every chemist as it illustrates how a laboratory looked in the 17th century. Perhaps things haven't changed so very much, as this alchemist's workshop reminds us of our collector's desk.

If you would like to have a reproduction of this painting, please don't tear off this cover - we will happily send you a full color print of the complete painting for one dollar.

If only the alchemist had possessed this *Aldrich Handbook*: how much easier his work would have been! In any case, we are certain that Bega would enjoy knowing that his masterpiece graces the finest compilation of chemicals known.

**ALDRICH HANDBOOK  
OF  
ORGANIC CHEMICALS**

© 1972 Aldrich Chemical Company, Inc.

Price \$2.00





---

MIDWEST

**CORPORATE OFFICES**

940 West St. Paul Avenue  
Milwaukee, Wisconsin 53233  
Phone: (414)-273-3850  
TWX 910-262-3052  
TELEX 26 843

---

EAST

10 Ridgedale Avenue  
P.O. Box 44  
Dodder Knolls, New Jersey 07927  
Phone: (201)-839-9494  
TWX 710-986-7480

---

WEST

2098 Pike Street  
P.O. Box 1814  
San Leandro, California 94577  
Phone: (415)-352-1186  
TWX 910-366-7109

---

SOUTH

875 Third N.W.  
P.O. Box 1844  
Atlanta, Georgia 30318  
Phone: (404)-875-2758  
TWX 810-751-3209

---

The  
Aldrich  
Handbook  
of  
Organic  
Chemicals

---

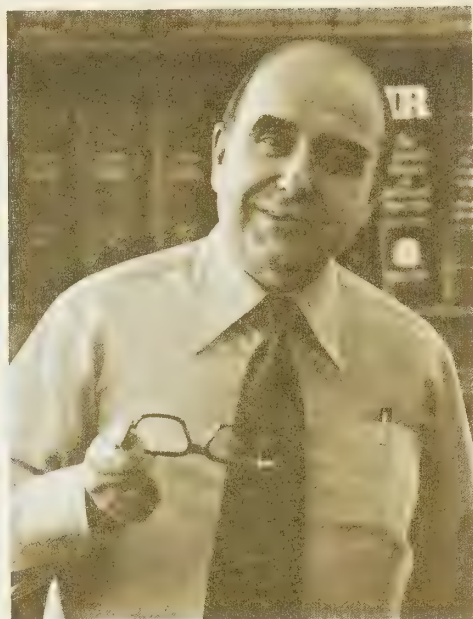
---

ALDRICH

ALFRED BADER



# Please Bother Us!



One of the most pleasurable aspects of my work is talking with our customers. I spend several days a month visiting university laboratories and meeting with our industrial customers to ensure that the quality of our service is good and the purity of our chemicals excellent, and to get suggestions from fellow chemists for new products we should add to our Catalog/Handbook.

Occasionally I may even get a complaint — hardly ever about purity — but sometimes about delays in delivery. We list over 10,000 products, including hundreds of new stains, dyes and inorganic chemicals, in this Catalog/Handbook. Well over 96% of these are in stock, ready for immediate delivery. A few products are back-ordered, and we make a great effort to reduce their number.

Nothing is as important to me as having our customers know that we think of them as individuals, not as names on a printout or numbers on a list. It would be unthinkable to send our customers to intermediaries or dealers who cannot possibly give as good service or know as much about our products as we do. At Aldrich, we want no barriers between our customers and us. Order from Aldrich directly, and if you have any questions, ask us. We want to be bothered.

I hope Aldrich will never become so large that we cannot be "bothered" by our customers. We care immensely and sincerely, and if you should ever wish to discuss a problem directly with me or any of our very capable technical or sales personnel, please call us at (414) 273-3850. It is important to me that we preserve our tradition of service and quality. So please, bother us.

Dr. Alfred Bader, President  
Aldrich Chemical Company, Inc.

Chemicals helping chemists in research & industry

# 1981-1982 Aldrich Catalog Handbook of Fine Chemicals

## Catalog 20

A valuable resource  
for chemists, researchers, students  
and chemical purchasing agents —

this catalog contains over 10,000 listings of organic and inorganic chemicals... biochemicals... stains & dyes... deuterated compounds... spectrophotometric solvents... reagents for hydroboration... organometallic reagents... polymers... catalysts... ion-exchange resins and adsorption media... atomic absorption standards... precious metal salts and a new expanded specialized glassware and equipment section. Data includes prices, physical properties, structures, Chemical Abstracts registry numbers, literature references, handling precautions and disposal methods.



® © 1980 by Aldrich Chemical Company, Inc.

chemists helping chemists in research & industry

**aldrich chemical co.**

940 West Saint Paul Avenue, Milwaukee, Wisconsin 53233 • (414) 273-3850

## ABOUT OUR COVER

This beautifully sensitive study of an old man (oil on wood, 9½ x 8 inches) is a portrait of Rembrandt's father, painted by Rembrandt in 1629 just before his father's death. The identity is clear from a comparison with an inscribed drawing (Fig. 1) in the Ashmolean Museum.



This study is the only known painting of Rembrandt's father, though the artist did use his father as a model in Biblical paintings, for instance, as Jeremiah in the Rijksmuseum and as St. Paul in Nürnberg. It was admired quite early, for one of Rembrandt's students, Joris van Vliet, etched it in 1634 (Fig. 2).

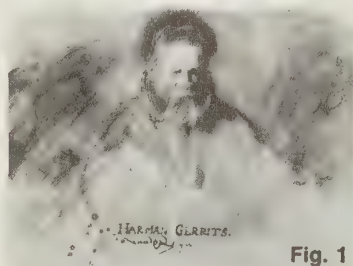


Fig. 1

It may be that Rembrandt's father was just losing his eyesight

when this was painted, and this contributed to Rembrandt's great empathy with the sitter. The overpowering emotion one feels when viewing this study is that of the care of one human being for another. Thus we thought it a fitting subject for the cover of our Catalog/Handbook which was prepared with such care for our customers.

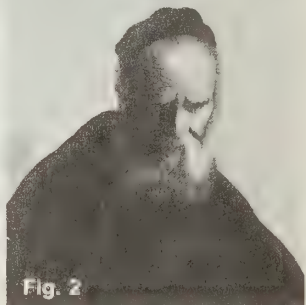


Fig. 2

If you would like to have a reproduction of this painting, please do not tear off this cover; we will be happy to send you a full color print of the painting (suitable for framing) for \$2.00, postpaid.

There have been so many requests for reproductions of the alchemical painting by Cornelis Bega (Fig. 3), which we had on our cover some years ago, that we decided to reproduce that also in full color, and that reproduction is also available for \$2.00, postpaid.



Fig. 3







## Dear Fellow Scientist,

As a member of Sigma-Aldrich Corporation, a global company with over 7,200 employees and operations in 35 countries, Aldrich is dedicated to accelerating your success through innovation, service, support, and quality. Through the acquisition of companies such as JRH, Prologo, and Irophaarm we continue to provide you with a broad range of products, capabilities, and services that complement our Handbook of Fine Chemicals featuring over 35,000 listings including almost 2,000 new products

We take your ideas and comments to heart regarding our Handbook (the Original), and continue to improve it in order to provide you with a superior scientific tool. We hope you'll find this New Edition of our "classic" even more useful to you in your daily work

This edition features

- Easy-to-read font and highlights in a two-column layout
- Over 20,000 chemical structures/linear formulas
- Updated application notes and literature citations
- Cross-reference indices and tables
- Safety pictograms along with Risk & Safety numbers
- SKU and packaging identifiers

Our award-winning Web site, [sigma-aldrich.com](http://sigma-aldrich.com), complements our Handbook by providing you with additional product offerings from our sister companies and over three million pages of technical information. Visit our recently enhanced site regularly to view newly added products; conduct structure searches; download application notes, analytical data, and technical updates; or to place and track your order

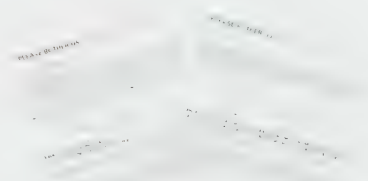
If you need larger quantities of any of the products listed in this Handbook, please contact SAFC at **1-800-244-1173 (USA)** or at [safcglobal.com](http://safcglobal.com).

We are always eager to hear from you, so "Please Bother Us."

Sincerely,

Joe Porwoll, President  
Aldrich Chemical Company

**"Please Bother Us."** Do you have a compound you wish we offered that would benefit your research by saving you time and money? If so, please send us your suggestion either by contacting our Technical Services department, listed on the outside back cover of this handbook, or email us at [aldprod@sial.com](mailto:aldprod@sial.com). We will be delighted to give your suggestion careful consideration. Your product ideas could appear in the "Please Bother Us." section of the *Aldrichimica Acta*



# Table of Contents

How to Use This Handbook	2	<b>CHEMICAL LISTINGS</b>	
To Place an Order	3	Alphabetical Listings	71
Catalog Features	4	Molecular Formula Index	2540
Safety Information	5	CAS Index	2701
General Information	9	Product Number Index	2773
Online Services	12	Abbreviations and Acronyms	2851
<i>Aldrichimica Acta/ChemFiles</i>	13	Worldwide Service and Support Information	2854
Special Packaging Options	14	Ring System Index	2855
Supporting the Chemical Community	15	Periodic Table	2859
SAFC	16	Conversion Tables	2860
Application Index	17	Trademark Index	2864

## The Alchemist

By Newell Convers Wyeth

**Appearing on our cover,** *The Alchemist* (oil on canvas, 1.924 x 1.29 m) was painted by American painter Newell Convers Wyeth (1882–1945). Wyeth had a zest for life and carried this enthusiasm through a tremendous number of paintings—more than 3,000 illustrations, numerous vast murals, and a great many still life and landscape paintings. In 1937, Wyeth was commissioned by The Hercules Powder Company to paint *The Alchemist*. Depicted in this painting is an aged, wise man mentoring his assistant—both surrounded by open books and atypical distillation apparatus, including vessels and laboratory glassware of various types. They are standing in front of the Athanor (a ceramic furnace), a common element when depicting alchemists. Through the open window we see a castle, suggesting the financial support European royalty gave to alchemists. The doves in the window may represent the purity of their work. Also of note, and in keeping with the traditions of 17th century science genre paintings, the scene would be incomplete without a stuffed monster suspended from the ceiling, in this case a puffer fish. **Courtesy of the Chemical Heritage Foundation Image Archives.**



### Leadership in Life Science and High Technology

Sigma-Aldrich is a leading Life Science (75%) and High Technology (25%) company. We have the broadest biochemical and organic chemical scientific knowledge and expertise in the world. We list 85,000 products and produce 40,000, many more than any other company. Our research brands are found in laboratories worldwide.

### Obsession with Service

We are a truly global company—40% USA, 40% Europe, 20% ROW. Service is much more than shipping our products from stock at 16 worldwide distribution centers. It encompasses every relationship with our customers. When customers deal with Sigma-Aldrich, they expect and receive the best possible service.

### Passion for Process Improvement

Process improvement is an integral part of our culture. It is simply a methodology for testing and implementing changes—changes that will result in improvement. And we truly believe in its value as a means to help us serve you better!



# How to Use This Handbook

## Chemical Listings

All chemicals contained in this Handbook are listed in this section by name, in alphabetical order. Prefixes such as bis, tris, tetra, etc. are considered to be part of the name, whereas descriptors such as *R*, *cis*, *tert*, etc. are not

Commonly used names and acronyms can also be found in this section cross-referenced to the name. For example, Mosher's acid and its acronym MTPA are both listed alphabetically and cross-referenced to the systematic name  $\alpha$ -Methoxy- $\alpha$ -(trifluoromethyl)phenylacetic acid.

There are several ways to quickly locate a product depending on the information you have. For example, if you are looking for a chemical and know either its name, formula, or CAS number, using the page headers of the Chemical Listings section and one or more of the indices should help you quickly locate the chemical. The CAS<sup>®</sup> Number Cross-Reference Index (see page 2701) lists Chemical Abstracts Service Registry Numbers in ascending order together with the corresponding Aldrich Handbook page number. The Product Number Index (see page 2773) lists the product number in ascending order together with the corresponding Aldrich Handbook page number.



## Other Resources for Product Location

- Visit [sigma-aldrich.com](http://sigma-aldrich.com) and use our advanced search features to quickly locate and order Aldrich products
- Contact our Technical Services staff who can search for products currently in the Handbook as well as those listed since its publication. They would be glad to help. Simply give them a call (see back cover for contact information)

## Labware

Due to our expanding selection of lab equipment & supplies, Sigma-Aldrich is introducing a dedicated Labware Catalog. This NEW dual-volume set containing the Aldrich Handbook of Fine Chemicals along with the Sigma-Aldrich Labware Catalog was delivered together in a shelf display box for convenient access and storage.

We welcome your comments and suggestions regarding this new format. Please email us at [labware@sial.com](mailto:labware@sial.com).

### A Wide Range of Labware for Chemistry & Life Science

**Featuring:**

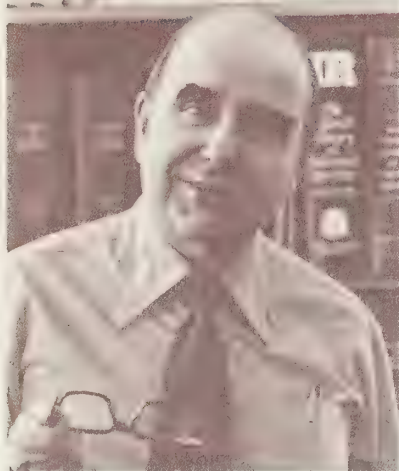
- Innovative Specialty & Custom Glassware
- Plasticware
- Equipment & Supplies
- Books

**Offering:**

- Unparalleled Customer Service & Support
- Superior Technical Service







# Please Bother Us!

One of the most pleasurable aspects of our work is talking to customers. We at Aldrich have always wanted to be close to and care for the people for whom our business exists. Frequent visits to university and industrial customers help us to ensure that we give the best possible service and that the purity of our chemicals is excellent. Such personal contacts often lead to suggestions from our fellow chemists for new products to add to our catalog.



Throughout our years of serving chemists we have striven to provide an increasingly comprehensive range of high-quality products at competitive prices. Speed is of the essence and so we ship most orders on the day of receipt.

Nothing is as important to us as having you, our customers, know that we think of you as individuals, not as names on a printout or numbers on a list.

We hope Aldrich will never become so large that we cannot be "bothered" by our customers. If you should ever wish to discuss a problem directly with us or our very capable technical or sales personnel, please call. It is important to us that we preserve our tradition of service and quality.

So please, bother us.

Dr. Alfred Bader  
Chairman

Dr. David R. Harvey  
President

chemists helping chemists in research & industry

---

1984-1985

# Aldrich

## Catalog/Handbook of Fine Chemicals

---

**A valuable resource for chemists, researchers,  
students and chemical purchasing agents**

This catalog contains over 16,000 products of which nearly 4,000 are new. These listings include organic and inorganic chemicals ... biochemicals ... stains and dyes ... deuterated compounds ... spectrophotometric solvents ... reagents for hydroboration ... organometallic reagents ... polymers ... catalysts ...

ion-exchange resins and adsorption media ... atomic absorption standards ... precious metal salts ... an expanded specialized glassware and equipment section and several new product lines including HPLC solvents ... pure elements ... spin labels and optically active compounds.

---

©1984 by Aldrich Chemical Company, Inc.

Chemists Helping Chemists in Research and Industry



**ALDRICH  
CHEMICAL CO.**

® P.O. Box 355, Milwaukee, Wisconsin 53201 USA

## ABOUT OUR COVER



When this portrait (oil on canvas, 38 x 32 inches) was sold unframed and dirty at Parke-Bernet in 1981, it was simply called "Portrait of a Gentleman" by Isaac Luttichuys. Our chemist-collector was intrigued by its quality and its scientific interest — the celestial globe and the book on anatomy which must relate to the sitter. Actually, the portrait is signed and dated 1657. In a paper<sup>1</sup> on Luttichuys, William Valentiner described it as one of the artist's most charming works. The sitter may have been Cornelis Danckerts, well-known Amsterdam publisher and maker of globes. The book is a 1647 Danckerts' edition of Vesalius' *Anatomy*. The curious engraving is Gasparo Becerra's "Muscle Man Holding His Own Skin" (Fig. 1) which had first appeared in Valverde's *Historia de la composición del cuerpo humano* printed a hundred years earlier.

Valentiner pointed out that while Luttichuys was not well known, his works were good enough to have been mistaken for those of Vermeer and Terborch. The quality and scientific interest of this painting make it a natural for the cover of our Catalog/Handbook.

1) Valentiner, W.R. *The Art Quarterly* 1938, 1, 151.

If you would like to have a reproduction of this painting, please do not tear off this cover; we will be happy to send you a full color print of the painting (suitable for framing) for \$2.00, postpaid.



Fig. 1





## Chemists helping chemists



**With Aldrich** you can be assured of our commitment to unsurpassed quality and service. Our products are rigorously analyzed using modern instrumentation and carefully packaged to maintain high quality. Once you place an order, it is our goal to ship it the same day. Should any questions arise before or after placing an order, please contact us. We have an experienced technical support staff ready to listen and assist.

**This new** Aldrich Catalog/Handbook contains 34,000 products including 4,000 new products. We have added hundreds of new application references to our listings as well as references to new Aldrich publications. To help you locate products more easily we have also added two new cross-reference indices (CAS number and product number).

*"Your research interests and needs are extremely important to us. In fact many of our new products come from suggestions by researchers such as yourself. We are chemists helping chemists worldwide."*

Clint Lane

Jai Nagarkatti

David Harvey

# Aldrich®

1001 West Saint Paul Avenue, Milwaukee, WI 53233 USA

---

## TO PLACE ORDERS

---

<b>Telephone (USA/Canada)</b> .....	<b>TELEX</b> .....	26 843 Aldrich MI
..... 800-558-9160	<b>TWX</b> .....	910-262-3052
..... 414-273-3850		Aldrichem MI
<b>FAX (USA/Canada)</b> .....	<b>Mail</b> .....	P.O. Box 2060
..... 800-962-9591		Milwaukee, WI 53201 USA
..... 414-273-4979		



---

## CUSTOMER & TECHNICAL SERVICES

---

<b>Customer Service</b> .....	800-558-9160	SAF Bulk Chemicals .....	800-336-9719
Information about orders, pricing, and shipping.		Flavors & Fragrances .....	800-227-4563
<b>Technical Service</b> .....	800-231-8327	Custom Synthesis .....	800-255-3756
Information about products and applications.		24-Hour Emergency Number	..... 414-273-3850
<b>General Information</b> .....	800-771-6737	General Correspondence	..... P.O. Box 355
			Milwaukee, WI 53201 USA

---

## OFFICE HOURS

---

Monday through Friday ..... 7:00 am - 7:00 pm  
Saturdays, Sundays & Holidays ..... 8:00 am - 12:00 noon

**We do not require a confirming purchase order.**

If one is sent, please mark it clearly as **CONFIRMING ORDER** to avoid duplicate shipment.

## About our cover



*"Our door is  
always open -  
please give  
us a call."*

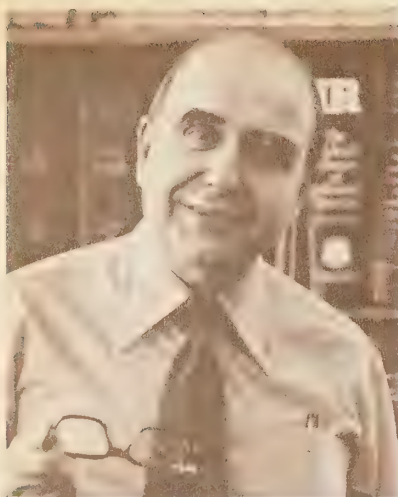
**This colorful masterpiece** entitled "Street Musicians at the Door " (detail)(oil on canvas, 68.6 x 55.9 cm) was painted by Jacob Ochtervelt in 1665. Ochtervelt's reputation still stands on the "high life" scenes of patrician everyday life which he executed during the third quarter of the seventeenth century. As still-life painting and portraiture became increasingly sophisticated in style and subject, so did Ochtervelt, Johannes Vermeer, Jan Steen and others turn to more stylized treatments of genre life. The complete image above depicts the two distinct worlds: an elegant interior with bright color and clear light, and a monochrome exterior with musicians in rustic clothes, seen through the open door. The interior reflects Vermeer's influence in light, color and tranquility; the exterior shows the jolly, noisy and rougher subjects of Jan Steen. The contrast is so striking and the influences so unmistakable that the painting is a virtual pastiche of these two artists.

Ochtervelt's entrance hall paintings are the reverse of Steen's scenes of street life at exterior doorways, and pictures in the museums at Berlin, The Hague and Amsterdam show similar rustic characters and monochromatic treatment derived from Steen. In the end it is striking opposition of the family's private life with that of the external world which is the main theme here, symbolized by two differing artistic styles.

The painting is in the collection of The Saint Louis Art Museum.

*If you would like a reproduction of this painting we will be happy to send you a full-color print (suitable for framing) for \$4.00 (to cover postage and handling) ..... Z24,897-5*





# Please Bother Us!

One of the most pleasurable aspects of our work is talking to customers. We at Aldrich have always wanted to be close to and care for the people for whom our business exists. Frequent visits to university and industrial customers help us to ensure that we give the best possible service and that the purity of our chemicals is excellent. Such personal contacts often lead to suggestions from our fellow chemists for new products to add to our catalog.

Nothing is as important to us as having you, our customers, know that we think of you as individuals, not as names on a printout or numbers on a list. We would not think of sending you to intermediaries or dealers. We want no barriers between our customers and ourselves. Order directly from Aldrich.

Throughout our years of serving chemists we have striven to provide an increasingly comprehensive range of high-quality products at competitive prices. Speed is of the essence and so we ship most orders on the day of receipt.

We hope Aldrich will never become so large that we cannot be "bothered" by our customers. If you should ever wish to discuss a problem directly with us or our very capable technical or sales personnel, please call us at (414) 273-3850. It is important to us that we preserve our tradition of service and quality.

So please, bother us.

Dr. Alfred Bader  
Chairman of the Board

Dr. David R. Harvey  
President

chemists helping chemists in research & industry







# Our **FREE** Computer Search Offer

Use this postpaid card to obtain a list of specific compounds retrieved from over 20,000 different items stored in our computer. All requests held in strictest confidence.

I am interested in (draw structure or fragment)

Functional groups or classes NOT wanted \_\_\_\_\_

Molecular weight range Min \_\_\_\_\_ Max \_\_\_\_\_

Name & Title \_\_\_\_\_

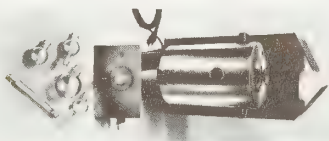
Company \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_



Our computer can save you hours of valuable time.

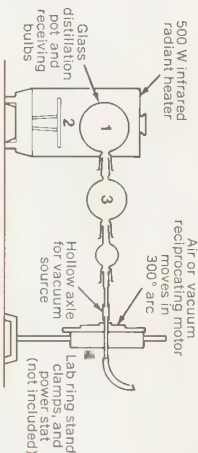


## THE VERSATILE ALDRICH KUGELROHR: FOR SHORT-PATH DISTILLATION, SUBLIMATION, FRACTIONATION, AND TO CLEAN UP REACTIONS.

Large surface-area distilling pot (1) is heated in air bath (2). Distillate collects in receiving bulb (3). Multiple distillations possible by switching receiver to air bath. Temperature range to 225°C. Wide bore tube machined capillaries. Wide bore tube machined insulators. Inert operating temperatures insured. Inert composition. Works with separator or diffusion pumps. Air or vacuum-operated reciprocating motor (4) keeps flask surface coated, prevents bumping, eliminates boiling stones. Order this indispensable apparatus to enhance your research capabilities. **\$145.00**

Includes motor, 500 watt far-infrared radiant heater, 5-piece glassware set (\$147.20).

- Ship \_\_\_\_\_ Kugelrohrs @145.00  
 I enclose \$ \_\_\_\_\_  
 Bill me later  Send literature



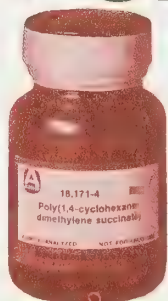
NAME \_\_\_\_\_  
 FIRM \_\_\_\_\_  
 Ship TO \_\_\_\_\_  
 CITY STATE ZIP \_\_\_\_\_  
 P O NUMBER \_\_\_\_\_

Now: 180 different research grade

# Polymers

available from Aldrich

Each one is carefully synthesized and conveniently packaged for immediate delivery. Of these, 30 have been fully characterized for molecular weight distribution, and are shipped with complete characterization data. Ideal for rheological and morphological study, intermediates, polymer reactions, sample fabrication, electrical and physical property evaluation, and analytical work. We'll be adding more Polymers every month...



Return this card for the complete listing

Please send me the free Polymer listing

NAME \_\_\_\_\_  
 FIRM \_\_\_\_\_  
 Ship TO \_\_\_\_\_  
 CITY STATE ZIP \_\_\_\_\_  
 P O NUMBER \_\_\_\_\_

FIRST CLASS

Permit No. 9040  
Milwaukee, WI

**BUSINESS REPLY MAIL**

No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

**Aldrich Chemical Company, Inc.**

940 W. Saint Paul Avenue  
Milwaukee, Wisconsin 53233



FIRST CLASS

Permit No. 9040  
Milwaukee, WI

**BUSINESS REPLY MAIL**

No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

**Aldrich Chemical Company, Inc.**

940 W. Saint Paul Avenue  
Milwaukee, Wisconsin 53233



FIRST CLASS

Permit No. 9040  
Milwaukee, WI

**BUSINESS REPLY MAIL**

No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

**Aldrich Chemical Company, Inc.**

940 W. Saint Paul Avenue  
Milwaukee, Wisconsin 53233



The  
1975-1976 ALDRICH  
CATALOG/HANDBOOK  
of  
ORGANIC  
and  
BIOCHEMICALS

**The  
Source**

for over 18,000 compounds  
including Polymers, Deuterated Solvents,  
Enzymes, Boranes, Spectrophotometric Solvents,  
and Rare Chemicals

©1974

**Aldrich Chemical Company, Inc.**



## About Our Cover:



The alchemical painting on our cover seems to be singularly appropriate for our Handbook because it is probably the only known 17th century Dutch depiction of an actual transformation of a base metal into gold. What a weird scene it is! While the senior alchemist says his incantations, the terrified laboratory technician kneels within the magic circle: two candles facing east-west, a skull, crossed bones, blood from a freshly killed animal and a Bible. A block of metal is suspended from the ceiling, a skeleton blows into a trumpet, lightning illuminates the laboratory - and the sun is shining outside. The painting is signed by Thomas Wyck (1616-1677) who painted many alchemical paintings, but none quite as wild as this. Could Wyck have had a specific scene in mind - perhaps from one of the many versions of Faust? Our chemist-collector would be happy to hear from any reader who might recognize the actual literary passage from which the artist drew his inspiration.

We, of course, can only smile. If only the alchemist had had our Handbook - how much easier his work would have been!

If you would like to have a reproduction of this painting, please don't tear off this cover; we will happily send you a full color print of the complete painting (suitable for framing) for one dollar, postpaid.



## CHEMISTS HELPING CHEMISTS

Customer satisfaction is most important to us. We visit universities and industrial customers frequently to ensure that we understand and meet our customers' needs.

Over the years, we have offered an ever-increasing range of quality products at competitive prices. Many of our new products have resulted from your suggestions, and with your input, we will continue to offer many more interesting and useful products.

Each of our products is rigorously analyzed, carefully packaged and backed by our prompt service and technical assistance. Convenient toll-free ordering and our extensive inventory enable us to ship your orders within hours of receipt.



*Alfred Bader, David W. Harvey, Jai Nagarkatti*

Alfred Bader

David Harvey

Jai Nagarkatti

We are dedicated to preserving our tradition of service and quality. If you ever wish to discuss our products and service, please do not hesitate to call us.

# Aldrich®

## To Place Orders

Telephone (USA/Canada)	800-558-9160 414-273-3850
TWX	910-262-3052 Aldrichem MI
TELEX	26 843 Aldrich MI
FAX	800-962-9591 414-273-4979
Mail	P.O. Box 2060 Milwaukee, WI 53201 USA

There is no minimum-order charge—every order is welcome. **We do not require a confirming purchase order.** Please help us to help you—if a confirming order is sent, it should be clearly marked "Confirmation - do not duplicate".

## Customer Service

Customer Inquiries	800-558-9160
Technical Information	800-231-8327
Bulk Sales	800-255-3756
Custom Synthesis	800-255-3756
Flavors & Fragrances	800-227-4563

## General Correspondence

P.O. Box 355  
Milwaukee, WI 53201 USA

## Office Hours

Monday - Friday	7:00 am - 7:00 pm
Saturdays, Sundays & Holidays	8:00 am - 12:00 noon

©1990, Aldrich Chemical Company, Inc.



**Aldrich Chemical Company, Inc.**

1001 West Saint Paul Avenue  
Milwaukee, Wisconsin 53233 USA

## ABOUT OUR COVER



Our chemist-collector can't remember ever looking at a portrait which gave him more pleasure than this of a young, serious girl (oil on panel, 15 x 11½ inches). The painting caused him one sleepless night before he purchased it at an auction in London recently, and has given him countless hours of pleasure since.

We have had many old-master paintings on our catalog covers, but none of such modest and informal beauty.

We can be certain where and when this was painted—in Holland about 1645—but we do not know the painter. Many Dutch artists of the Golden Age painted portraits of children, but few with such an enchanting direct gaze, such trusting eyes. Did this girl affect her contemporaries as she affects us—and what became of her whose simple beauty is captured here in paint?

Surely, a work of such quality is a fitting cover for our Catalog/Handbook which we try so hard to make the best in the world.

If you would like to have a reproduction of this painting, we will be happy to send you a full-color print suitable for framing for \$2.00, postpaid.



# ORGANIC CHEMICALS CATALOG



**BULK CATALOG**



# ORGANIC BULK CATALOG



©1970 Aldrich Chemical Company, Inc.



## ABOUT OUR COVER

When we asked our chemist-collector which of his paintings most clearly depicted massiveness, he unhesitatingly chose the painting on our cover. And so it became our choice for our bulk catalog.

Our chemist had acquired this painting from a small gallery in Copenhagen where it had just come from the family of Gauguin, the great painter. Neither Gauguin nor the gallery owner had any attribution. Nonetheless, our chemist bought this, and the first night could not sleep — haunted by the intensity of this painting beside his bed — Ezekiel in the Valley of Dry Bones.

Since then a number of art historians have seen and admired this painting. Some have thought that it was painted by Fragonard; our collector thinks it is earlier and Italian, perhaps one of the very paintings that influenced the young Fragonard to paint many such studies during his travels in Italy.



ALFRED BADER CHEMICALS

**LIBRARY OF  
RARE CHEMICALS**





## About Our Cover:



One of our chemists collects old Dutch and Flemish paintings, and when we asked him some years ago which of his paintings might best fit the cover of our first *Library of Rare Chemicals* catalog, he quickly pointed to the sketch you see. Nothing, he thought, could better depict surprise, and surely the concept of a library of rare chemicals, computer-coded, of thousands of out-of-the-way chemicals is bound to evoke surprise.

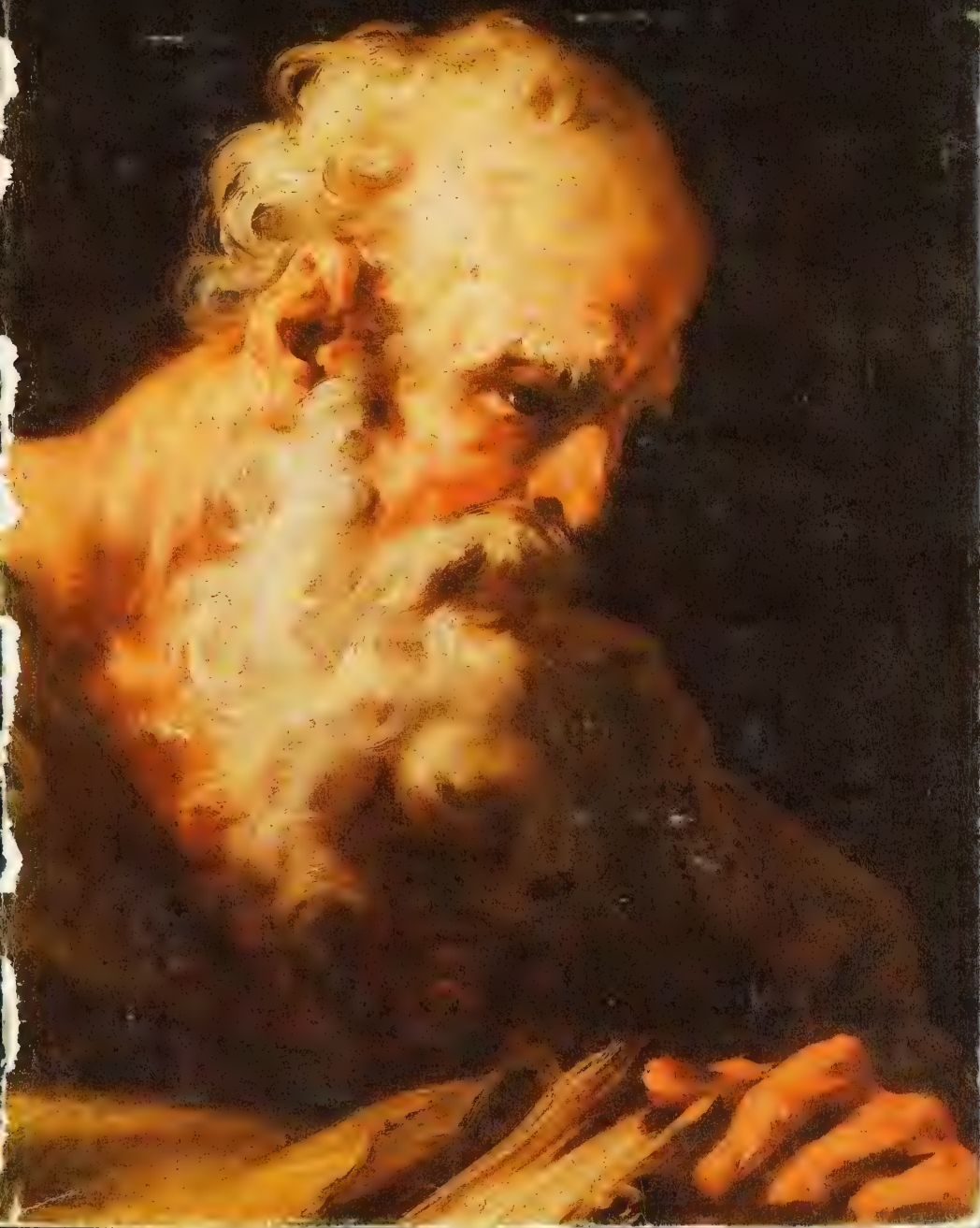
Since then, hundreds of our customers have told us that this had been the finest cover we ever used, and we have often been pleasantly surprised to see this well-known face staring at us from the most unexpected places. Thus it seemed logical to retain this cover: surely surprise will be even greater when our customers realize that we now offer 15,000 such chemicals, by name, structure and molecular formula. And we hope that our competence in offering our library will approach the ability of this artist who worked in Antwerp around 1630.

*If you would like a reproduction of this "Man Surprised", do not tear off the cover — we shall happily send you a reprint of the complete painting (suitable for framing) for one dollar, postpaid.*

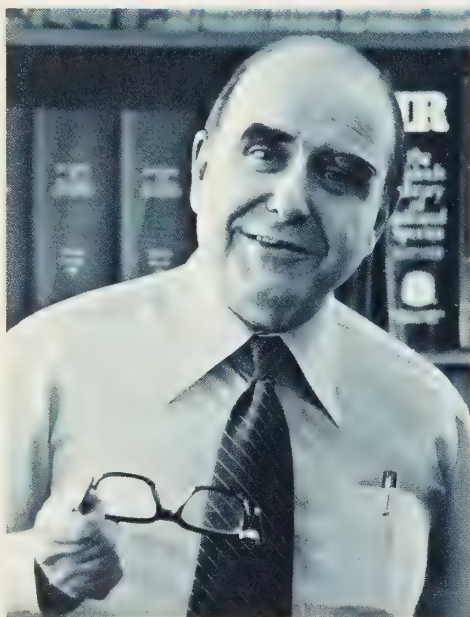




# Aldrich Handbook of Bulk Chemicals



# Why Aldrich for Bulk Chemicals



As Aldrich has grown, so has its capability to offer larger quantities of chemicals. I still remember, with great pleasure, the very first bulk order we received, back in 1955, for 500 lbs. of suberic acid. Now we accept a good many orders for tonnage lots every week, and many of these bulk orders are shipped from stock. Just ask for a ton of oxalyl chloride, dihydroxyran, hexanetriol or 3-hydroxypyridine.

Many of our customers have told us that they use our Catalog/ Handbook as much as a handbook as a catalog. Which handbook lists as many physical constants, literature references, and hazard warnings as ours? And so we hope that our bulk-chemical customers will appreciate these even more detailed descriptions of some of the products we offer in bulk. Please remember, however, that these 468 data sheets cover just a sampling of the thousands of products which we handle in bulk. If you need a product not included here, please ask. If it's listed in our Catalog/ Handbook, there is a good chance that we can offer it in bulk.

*Opina Baden.*



# Aldrich Inorganics

---



---

Aldrich Chemical Company  
Milwaukee, Wisconsin

# Why Aldrich for Inorganics

Chances are many of the organic chemicals in your laboratory bear the Aldrich label, but until recently you wouldn't have found many inorganic chemicals in our comprehensive Catalog/Handbook.

However, for some years we had felt that there was a need for a reliable supplier of inorganics; thus, we selected several hundred fine inorganic reagents to include in our most recent Catalog/Handbook.

As it became known that Aldrich was considering inorganics, we began to receive inquiries — many relating to inorganics used by the organic chemist, but some also needed by the inorganic, analytical and physical chemists.

(Entertaining questions and suggestions from the research community has traditionally received very high priority at Aldrich; your input

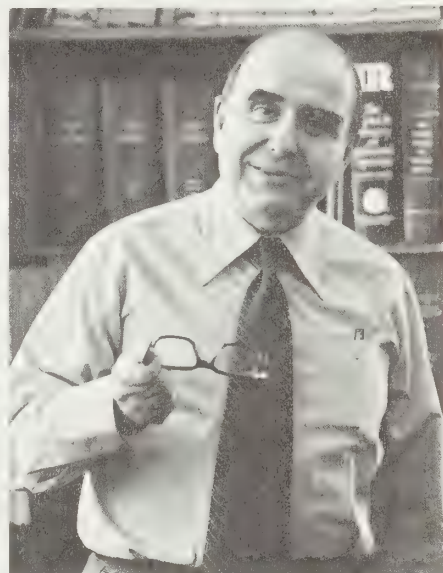
from the inorganic area will be held in the same regard.)

In response, the distribution of this supplementary catalog allows us to present chemists with a compact collection of over 1,000 "Aldrich Inorganics," including silica gels, Dowex and Rohm and Haas resins, specialty and high-purity salts and solutions, catalysts, precious-metal salts, borane reagents and other air-sensitive chemicals, plus supportive equipment and services.

We have always felt that by applying standards and practices derived from many years' experience in the organic field, we could build toward providing the research community with a unique source of products and services which span the entire chemical spectrum.

For the inorganic, physical and analytical chemists having limited exposure to Aldrich, we suggest that you ask a few organic chemists about us — then try us yourselves. We think you will be pleasantly surprised to find a single source capable of handling your chemical requirements in a personal manner.

Aldrich — chemists helping chemists in research and industry.



*Alfred Bader*

Dr. Alfred Bader, President  
Aldrich Chemical Company, Inc.

---

# Aldrich Inorganics

---

Features over 1,000 listings of inorganic chemicals . . . ultrapure salts . . . atomic absorption standards . . . reagents for hydroboration . . . organometallic reagents . . . heterogeneous and homogeneous catalysts . . . ion-exchange resins and adsorption media . . . drying agents . . . precious metal salts . . . specialized glassware and equipment . . . developmental reagents. Data include prices, physical properties, Chemical Abstracts registry numbers, literature references, handling precautions and disposal methods.

©1979 by Aldrich Chemical Company, Inc.



chemists  
helping chemists  
in research  
& industry

**aldrich chemical co.**

940 West Saint Paul Avenue, Milwaukee, Wisconsin 53233 • (414) 273-3850

# About Our Cover

---

When we asked our chemist-collector to suggest a painting which would be appropriate for reproduction on our cover, he immediately nominated this striking representation of an alchemist intent upon transforming lead into gold.

While it is unfortunate that the greatest artists—Rembrandt, Velasquez, Vermeer—did not paint alchemical subjects, many of the lesser known Dutch artists did, and this, painted around 1660, is by one of them, Cornelis Bega.

Bega must have liked the subject because he painted it at least twice, with many minor variations, the second version being the well known smaller work in the collection of the Fisher Scientific Company. An essay in our *Aldrichimica Acta*, 4, 17 (1971) discusses the relationship between the two paintings.

To us the painting is a thing of great beauty and of immediate interest to every chemist as it illustrates how a laboratory looked in the 17th century. Perhaps things haven't changed so very much, as this alchemist's workshop reminds us of our collector's desk.

We expect the alchemist's work might have been considerably easier if only he had possessed this catalog! In any case, we are certain that Bega would enjoy knowing that his masterpiece graces such a fine compilation of inorganic chemicals.



\* *Your Guide to Summer in the City!*

since 1983  
**25**  
YEARS

# Milwaukee

MAGAZINE



Cheap summer events, Wisconsin wineries, dining adventures, antique bargain hunting, old Milwaukee memories, guide to movie theaters, cheap health helps and much more!

## CITY GUIDE **08**



→ [milwaukeemagazine.com](http://milwaukeemagazine.com)

What if I got pregnant again?  
What would we do?  
Everything would change.  
Will I ever stop worrying?

**Now you can push  
away those worries.**

If you know you're done having children,  
there's **Essure**, a simple, permanent  
birth control solution performed in  
a doctor's office in less than an hour.

FDA-approved and in use  
for five years, **Essure** doesn't involve  
hormones, cutting or the risks of getting  
your tubes tied. So maybe it's time you  
had one less thing to think about—so you  
can focus on what matters.

Visit [essure.com](http://essure.com)  
or call 1-877-ESSURE-6  
(1-877-377-8756)  
to find an Essure-certified  
doctor near you.

**essure**

YOUR FAMILY IS COMPLETE.  
YOUR CHOICE IS CLEAR.

The Essure procedure may not be suitable for all women and there are risks. The procedure is not reversible, and you must use another form of birth control for at least three months after the procedure. Risks may include cramping/pain, nausea/vomiting, dizziness/lightheadedness, bleeding/spotting. Visit [www.essure.com](http://www.essure.com) for a complete list of risks and considerations.

©2008 All rights reserved. Conceptus and Essure are registered trademarks and Your Family is Complete Your Choice is Clear is a service mark of Conceptus, Inc.

CC-1692 01FEB08†





# *Thrill* of the *Adventure*

The inside scoop on  
Milwaukee antique collecting.  
And some great places for  
a treasure hunt.

by Mary Van de Kamp Nohl ~ photos by David Bader

Newberry and Lake Drive. Of course, the traffic cops used to be at the four corners directing traffic. All gone now.

**SEARS:** They used to have passenger boats between here and Chicago. A boat called Christopher Columbus, a whaleback steamer, would go everyday from here to Chicago. And there were boats that would go north to Green Bay. One summer I went up to Sturgeon Bay to pick cherries. A lot of people would go there to pick cherries. We took the boat.

**SPORIS:** My dad had a car. My dad was a big shot. It was, I remember, a Buick.

**SEARS:** On Hampshire and Hackett, there's a fairly large duplex my father had built. In 1910. Well, my father was not foresighted enough to realize the day would be coming when everyone would own a car, so he built this duplex over the whole lot and we didn't have room for a driveway, so we had to rent a garage.

## ETHNIC CULTURE

**SPORIS:** My friend Elsie was a German girl and used to teach me German. I said, "I hate to speak it," and she said, "You must speak German when you are with me." I couldn't speak German, but my dad taught me how to sing in German. He was No. 1 German — oh, was he strict. But I didn't care about Germany. I still remember a German song. It was a song about a bird.

**SEARS:** I was living on the East Side, and there weren't too many Germans. The Third Ward, we used to call that Little Italy because so many Italians lived there. It was a pretty poor section of the city.

**SPORIS:** My mother was Polish. She made homemade Polish sausage. I can speak Polish. And Slovenian, a little bit. They taught us in English at St. Josaphat's School, and it was so hard for me.

**RINDFLEISCH:** Rindfleisch is just as German as can be. However, when my grandfather brought his family to this country, and my dad was a year old, Grandfather said, "Now we're in the United States, no more talking German." His English was a mixture, partly German and partly English, but it was what he called United States.

## KEEPING COOL

**SPORIS:** No air conditioning. Nothing to do but sit and take it.

**GEISLER:** You just suffocated. You



**BRET SEARS**  
"Warmly applauded," now  
retired, age 102.

suffocated with the windows open. It was pretty miserable.

**SEARS:** We had electric fans.

**SPORIS:** We used to swim in Lake Michigan. We had a house near the [Kin-nickinnic] river, and I used to be in that river all the time. One day, Elsie and I, we skipped school and went to the river to swim.

**GEISLER:** My mother made our swimsuits out of a pair of bloomers and a dress with a big, wide skirt. It was quite stylish. I don't think anyone today would know what bloomers are. I'd put on a suit and walk out. I swam in the lake and in the river. I also ice skated on the river. It depends on your definition of clean, but we went in anyway.

**SPORIS:** I remember the ice box. Well, half of it was where you would put a block of ice, and below you put the food.

## ENTERTAINMENT

**SEARS:** There used to be six theaters on Wisconsin Avenue. The Alhambra was a magnificent theater. When I was a little kid, maybe 8, my folks took me to the Alhambra to see a movie called *Huckleberry Finn* and somehow we got separated on the way out. I got lost. I couldn't find my parents. Here I was at night, an 8-year-old kid Downtown. Well, I walked all the way

home. I found my way by following the street car line.

**RINDFLEISCH:** I remember the old Davidson Theater. They had legitimate actresses and actors.

**SEARS:** There were three vaudeville theaters [Downtown]. The Palace was the biggest, right near Sixth Street. And the Miller, on Third Street, between Wisconsin and Wells. Then there was the Riverside.

**SPORIS:** My husband owned a bar. Sporisz Saloon. He had it undercover [during Prohibition]. He was a smart, slick man. He used to go for that beer, to a little town, I don't know the name of it. You couldn't do nothing to him. Cops used to come by and drink beer. I didn't like it because it was so bitter.

**SEARS:** They had many concerts. A band played in different parks. On Monday night maybe it was Humboldt, Wednesday night maybe it was Washington. I think they were at Lake Park on Friday nights. They'd play all summer. It was the same program at all of the parks.

## SCHOOL TO WORK

**SEARS:** My mother was a piano teacher and gave me lessons all the while I was in

*continued on page 92*



Assorted artifacts from the Antique Center at Wales (left and center) and Antiques at Gordon's (right).

Alfred Bader was a struggling Milwaukee chemist on a New York business trip when he purchased his first old master painting. Bader knew more about phytochemicals than fine art, but he liked the painting and the dealer was willing to let him pay in 16 monthly installments of \$50.

Only later did Bader discover that *Man Surprised*, the portrait of Adriaen Brouwer, had been painted by 17th century Flemish artist Joos van Craesbeeck (the dealer had credited another artist). It had been a good investment.

Back in Milwaukee, Bader built a successful corporation, the Aldrich Chemical Co., and never had to buy another painting on time. Over the next 58 years, he became a relentless student, picking the brains of the world's greatest experts in Dutch and Flemish art and amassing an impressive collection of 17th century paintings. Last January, Bader sold Rembrandt's 1635 *Minerva in Her Study* to a New York collector for what may be a world record: \$37.5 million.

Not everyone becomes a collector on Bader's scale, but the advent of "Antiques Roadshow" has countless Americans scouring their attics for treasures left by Grandma or Aunt Ethel. Collecting has gone mainstream. Thanks also to eBay, Martha Stewart, price guide gurus Ralph and Terry Kovel, and celebrity collectors like Oprah, there has never been a time when average folks were more aware of the value of collectibles.

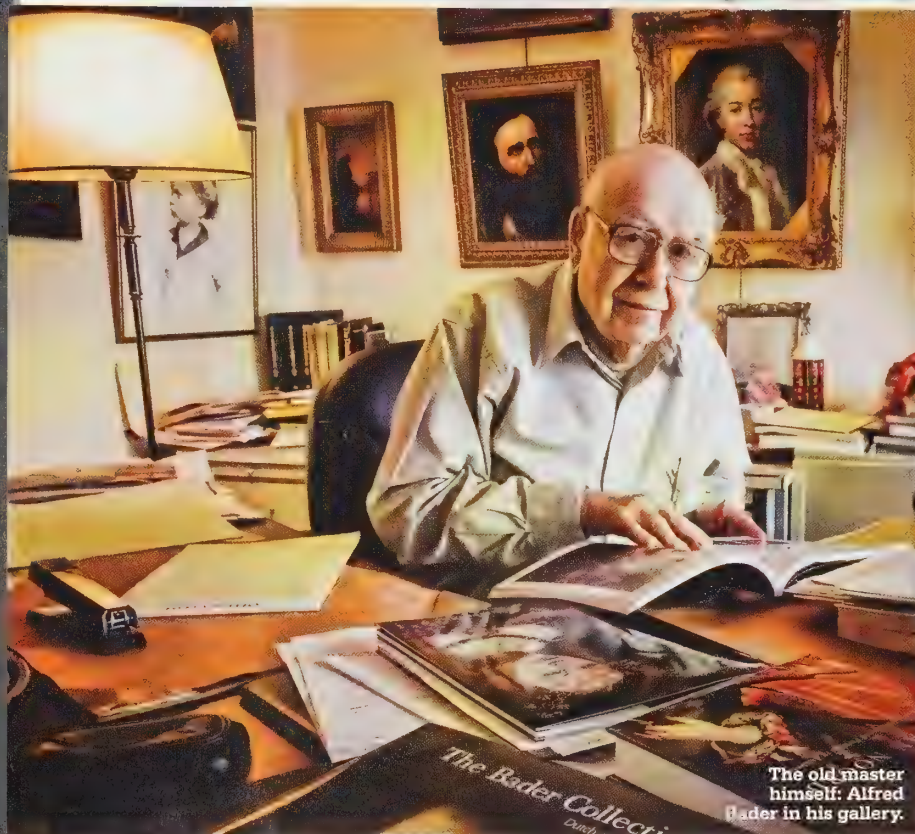
And Milwaukee, it turns out, is a great place for treasure hunting. "Dealers from across the country know the kind of deals we have here," says Third Ward consignment shop operator Billie Dyszelski. They often send "pickers" – the middlemen of the antique business – to shop here, because Milwaukee has a reputation as a city with a history for appreciating quality and a frugality that keeps prices modest.

## Who Collects

"Ten percent of the population has the collecting gene," says Grafton antique dealer Gordon Kirsten. You can identify most collectors early on, he says. They're the kids collecting bugs, McDonald's give-away toys and baseball cards. Kirsten collected rocks, butterflies and comics. Bader started with stamps.

But some start later. Native Milwaukeean Ralph Kovel and wife Terry bought their first antique, a \$25 vintage music box, when they were courting. With 96 books to their credit, the Kovels reign as the king and queen of antique and collectible price guides. The Kovels – through their monthly newsletter, a weekly column in 130 newspapers, an Internet e-zine and countless appearances on TV – keep tabs on the middle and lower end of the antique and collectibles market.

Perhaps reflecting Ralph's childhood spent growing up on Grant Avenue in frugal Milwaukee, the Kovels always collect



The old master himself: Alfred Bader in his gallery.

“what’s not too expensive,” says Terry. The couples’ most valuable collection, she says, occupies their basement, a veritable general store filled with advertising collectibles.

Collectors come in many stripes, Terry says. They may be investors, decorators, purists attracted by the history and quality of an item, status seekers looking for prestige, or buyers recapturing their youth by buying the toys of their childhood. You may be a collector without even realizing it: It only takes five items to make up a collection, Terry says.

Bader, whose one purchase turned him into a collector, calls himself an auction and antique shop addict. He will head to Europe again this summer to scour shops for masterpieces obscured by dirt and neglect. At age 84, he runs the low-profile Alfred Bader Fine Arts Gallery in an Astor Hotel suite, where he sells what’s now the hottest category in the metro antique and collecting market: reasonably priced, good-quality vintage paintings. “I have the best job in the world,” he says.

Antique collecting itself is relatively new. People didn’t collect until the 1950s, Kovel said on a recent Milwaukee visit. “Before that, you either were wealthy and you inherited [antiques], or you were poor, and you had used furniture.” Now, anyone can become a connoisseur and there are more antiques than ever. Anything at least a century old was once the standard, but

today anything more than 50 years old is considered an antique.

## Getting Started

**Alfred Bader has two rules** for collectors. The first: “Never buy anything unless you really love it.”

Even veteran collectors can’t always be sure what they’re buying is the real thing, says Laurel Turner, curator of exhibitions and collections for the Charles Allis and Villa Terrace museums. “That’s why you should always buy things you just love. That way you will never be disappointed,” she says.

Riverview Antique Market dealer Victor Mora advises new collectors to start slowly and buy only inexpensive items until their knowledge and confidence grows.

## What to Collect & Where

**Almost anything that** interests you is fair game. There is almost no limit to what people collect. In her 20 years as a dealer, Fox Skylight Gallery of Antiques manager Sandy Kelsenberg has sold everything from a KKK membership handbook to an anti-vampire kit complete with impaling stake, holy water and rosary. She’s sold a set of false teeth samples and even a vibrating belt reducing

machine like the one Lucille Ball used in an episode of “I Love Lucy.”

Collector Joe Pabst, a descendent of the local brewing family, favors what he calls “the curious and the macabre.” Among his prized possessions: a World War I-era prosthetic wooden arm displayed as a sculptural object on a table in his home, a 100-year-old veterinarian’s syringe, and “a crappy old hotel chest of drawers” that he had an artist refinish to complete a bohemian East Side interior that includes a hallway ceiling of claret red covered with a collection of 250 antique prisms.

## Where Should you Start Shopping?

**The antique market** begins with auctions, estate sales and flea markets. That’s where dealers buy wholesale, often using pickers to do their buying. The secret of estate sales is to arrive an hour or more before the official sign-up sheet goes up to get a priority position.

Other “wholesale” avenues include consignment and second-hand shops. If you wait until an item sells in a retail shop, you will pay much more.

“The rule of thumb is that dealers like to triple the price they paid for something. One-third represents what it cost them, one-third goes for rent and one-third is profit,” says Fox Gallery’s Kelsenberg.

But for the educated collector, who learns a lot about, say, 20th century art glass, there are bargains to be found even in the top antique shops. Says veteran antique shop owner Kirsten: “The best collectors in any category will know more than the most knowledgeable dealer because we have to be generalists.”

And be careful of buys on eBay. Though the online auction site has taken steps to address problems with fraud, there’s no substitute for holding something in your hands when it comes to evaluating its quality and authenticity.

## Look for Quality

**Bader’s second rule:** “Always buy the very best quality you can afford.”

Be wary of damaged goods, no matter how old or interesting the item looks. “No one wants damaged merchandise anymore,” says Jim Dieter, owner of Blackhawk Antiques Market. “I wouldn’t even give you a dime for it.” As gas prices and living costs rise, lower-end buyers are less

active and higher-end buyers seldom take a chance on damaged items, unless it's an incredibly rare piece (say a 1600s delft charger). "The business has changed a lot in the past four years," Dieter adds.

Fine quality and unique items hold their value and keep on selling. "Fairly priced, high-quality, rare and unique items sell without any problem," says Gordon. "The real problem is finding enough of them."

The best quality is always the best investment. In art glass, it's Steuben and Tiffany. Sevres and Meissen in figurines. Roycroft and Stickley in the Arts and Crafts movement. And in books, it's early editions of classic best-sellers. "It's always better to have one great item at \$100 than 10 mediocre things at \$10," adds Kelsenberg.

The good news? Much of the best is still affordable. "A lot of people see an antique and say 'I could never afford that.' Well, you could. And a lot of things, including antique silver and furniture, cost much less than the things in stores now, and the quality is much better," says Gurnee Antique Center manager George Zukowski.

## How to Bargain

**With any purchase**, it's important to bargain diplomatically. "Dealers just hate it when someone says 'I'll give you this much,'" says Joanne Toman, a Riverview Antique Market associate. It's better to say, "Can you do any better on this?" At many shops, simply asking will net a discount of 10 or 20 percent on items priced over \$10 or \$20.

If you love something that's out of style, buy it now. It's on sale. And even if you're after what's hot, "The buys are still out there," Terry Kovel says, "at church sales, little auctions, big auctions, shops."

## How to Avoid Fakes

**In January 2006**, Villa Terrace Decorative Arts Museum opened an exhibit of Asian antiquities, including fine old ivory carvings belonging to Dr. Clifton Peterson, a prominent local collector. Peterson assembled the exhibit himself with the help of local appraiser Janice Kuhn, says Turner, who assumed her position as curator for Villa Terrace after the show ran.

(If Kuhn's name sounds familiar, it's because she was convicted of four counts of felony theft in 1991 stemming from the sale of antiques for consigners who were

# get started!

Here's an insider's list of the best places for collectors.



### AUCTION GALLERIES:

**BAILEY'S HONOR AUCTION SERVICE.** Auctions held at the Richfield Chalet, Carol Miller auctioneer. 1271 Hwy. 175, Hubertus, 262-569-8687, [baileyshonor.com](http://baileyshonor.com).

**CEDARBURG AUCTION CO.** "The middle-of-the-road items, at times, they're giveaways," says one regular Cedarburg auction-goer. The auctions are held at Circle "B" Recreation Center, 6261 Hwy. 60, Cedarburg, 262-377-4444, [cedarburgauction.com](http://cedarburgauction.com).

**SCHRAGER AUCTION GALLERIES.** Milwaukee's banks have put their trust in Al Schrage for more than 50 years when it comes to liquidating the estates of the wealthy. Examine auction items at the gallery, then bid from the comfort of home via the Internet. 2915 N. Sherman Blvd., 414-873-3738, [schragerauction.com](http://schragerauction.com).

**THE HOUSE IN THE WOODS INC.** Weekday auctions are very popular with antique dealers. The annual holiday sale is a big hit. S91 W37851 Antique Lane, Eagle, 262-594-2334, [houseinthewoodsync.com](http://houseinthewoodsync.com).

**PAUL AUCTION COMPANY** Sunday antique and collectible auctions. N131 County Road S, Kewaskum, 262-338-3030, [paulauction.com](http://paulauction.com).

### CONSIGNMENT SHOPS:

**CHATEL CHANGERS INC.** Chattel Changers keeps prices reasonable, and they drop 15 percent for each month the item is in the store. That brings a steady traffic of collectors, dealers and pickers. 2520 E. Capitol Dr., 414-961-7085, [chattelchangers.com](http://chattelchangers.com).

**FOX SKYLIGHT GALLERY OF ANTIQUES. BASEMENT LEVEL.** Shop manager Billie Dyszelski says she caters to young people from Bay View and Riverwest who are just beginning to collect, but antique dealers are also regulars at her eclectic shop, which includes

Wisconsin art from the 1800s through the present, 1950s and '60s commercial and home furnishings, old wicker, and outsider and folk art. 112 E. Mineral St., 414-382-0007.

**LEGACIES LTD.** Items are priced reasonably and prices fall 15 percent every 30 days. Dealers, collectors, decorators and even moms and dads outfitting their grown children's homes frequent the place. 7922 N. Port Washington Rd., Fox Point, 414-352-8114, [legaciesltd.com](http://legaciesltd.com).

**THE CONSIGNMENT STORE - PATRICIA FRANCES INTERIORS.** A veteran appraiser and antique dealer, Patricia's consigners keep her 15-year-old shop filled with interesting antiques, including rarities like the "Mediterranean pass," bearing the signature of U.S. President John Quincy Adams, which sold to a local attorney recently for \$600. W62 N634 Washington Ave., Cedarburg, 262-377-7710.

### ANTIQUe SHOPS:

**ALFRED BADER FINE ARTS.** More like an art gallery for collectors. European and American paintings from the 1600s to the late 20th century; originals and antique copies. More than half of the gallery's paintings sell for less than \$1,000. "Why would anyone buy prints when they can buy an oil painting for the same money?" asks Bader. No shop hours; call to arrange an appointment. Astor Hotel, Suite 622, 924 E. Juneau Ave., 414-277-0730.

**ANTIQUES AT GORDON'S** The area's largest one-dealer shop, this 5,000-square-foot barn is near I-43. Gordon's features period to country furniture, porcelain, fine glassware and art pottery, postcards, American Indian and fine art antiques. Proprietor Gordon Kirsten has been here for almost 40 years. He's an authority on art glass and Indian artifacts. 2275 N. Port Washington Rd., Grafton, 262-377-4313.

**ANTIQUES CENTER AT WALES.** Ron Christman and wife Debby are recognized as two of the area's finest dealers. They focus on quality 18th, 19th and early 20th century furniture, accessories, folk art and paintings, with a specialty in Early American and painted furniture. And Ron runs a side business providing period frames for paintings. 323 E. Summit Ave. (Hwy. 18), Wales, 262-968-4913.

**ANTIQUe CENTER - WALKER'S POINT.** Really three shops: Our favorite is the third-floor collection of men's vintage clothing, shoes and accessories - best in the region. Good selection of women's vintage too, all by **DIME A DANCE** (414-383-3036). You'll find quality 1940s lizard handbags (\$35) and matching vintage shoes, costume jewelry, Bakelite and Mexican silver, copper by Matisse and Renoir, along with collectible head vases, books, inexpensive early pressed glass and golden oak furniture. The mid-floor shop, Asiana, sells recent Oriental imports. 1134 S. First St., 414-383-0655.

**BLACKHAWK ANTIQUe MARKET.** No mundane rummage here. Blackhawk's 30,000-square-foot Cream City brick warehouse and its 125 dealers are higher-brow, offering 18th century furnishings and accessories. Deco and 20th Century Modern, paintings, vintage lighting, costume jewelry and more. Some shops won't deal on prices, but proprietor Jim Dieter considers it part of his job. "I try to make it a win-win for both the seller and the buyer," he says. The adjoining **PIERCE REGAL** shop features a good selection of shiny refinished furniture. 633 S. 12th St., 414-385-9999, [blackhawkantiquemarket.com](http://blackhawkantiquemarket.com).

**CLINTON ST. ANTIQUe CENTER.** Tiny shop distinguished by its reasonable prices and beautiful garden out back. Inside: advertising items, brewery collectibles, Milwaukee

Continued on page 77



Today, even items just 50 years old are considered antiques.

never paid.)

Milwaukeean Marvin Sokolow, an “Antiques Roadshow” Asian art appraiser, saw the show and fired off a letter berating the museum for passing off 1960s reproductions as artifacts from the Ming and Ch’ing Dynasties.

Sokolow says that when the Milwaukee Art Museum installed its new Asian Gallery a few years earlier, then-director Russell Bowman hired a world-class expert – Dr. Stephen Little, then-curator of Asian art for the Art Institute of Chicago – to verify the authenticity of every item. “That’s the way things should be done when there is no specialized knowledge on staff,” he says.

But Turner is more sanguine. She says Asians have been copying their own art for 4,000 years. “Oriental objects are very difficult to date because they reuse symbols and even ancient ivory. It’s considered a tribute to the past.”

When it comes to verifying authenticity, even big-name museums have been embarrassed. Curators at the Henry Ford Museum and Greenfield Village in Dearborn, Mich., gloated over their coup of purchasing a Pilgrim-era Brewster chair

for a mere \$10,000 in 1970. Seven years later, Rhode Island artisan Armand La Montagne told museum officials they’d find his mark at the base of one of the chair’s spindles. He’d crafted the chair using historic techniques in an effort to embarrass experts blinded by their enthusiasm for a bargain. The museum had fallen for his hoax. For a time, it displayed the chair as a lesson to others.

In recent years, the number of reproductions designed to look exactly like the originals has exploded. The Kovels recently wrote that you could identify a particular porcelain figure as a copy because the original never had blue feet. “Well, the Chinese read what we write, too, and they started making copies in the correct color,” Terry Kovel laments.

Collectors like Bader and Sokolow say the best defense is to develop your own expertise by visiting top museums and the best antique shows, touching the real thing and debriefing the most respected authorities, then pouring over auction records and reference books yourself. Most veterans of the business are delighted to share their knowledge, as are the members of collecting clubs for everything from Red Wing

pottery and Steiff animals to cash registers and cut glass. Ask dealers who carry the items you’re interested in whether they know of a collector’s group or do an Internet search to find one.

Another bit of advice from Kovel: Deal only with well-known shops of longstanding. “Odds are they’re honest,” she says. “But ask a lot of questions. Most people won’t lie, and ditch them if they won’t give you a letter in writing saying this is a 17th century whatever if you’re paying good money. And if someone’s selling antiques in a [temporary] hotel [sale], the odds are they’re not antiques.”

Another great resource – and one of the city’s best kept secrets – is the Milwaukee Art Museum’s American Heritage Society, which hosts lectures, workshops and exclusive tours of the homes of renowned private collections.

“In time, you’ll train yourself to spot real quality and the true signs of age and wear,” says Mora.

If you do make a mistake, consider it a learning experience, says Sokolow, who once acted in the enthusiasm of the moment at an auction, paying \$1,000 for a \$20 Chinese reproduction. He put the item in his closet as a reminder that he’s not infallible.

An hour’s drive south of Milwaukee, the Gurnee Antique Center provides an admirable customer service in two glass display cases filled with reproductions of classic pieces, ranging from antique Staffordshire figures of recent Chinese vintage to cast iron banks aged by burying them in dirt to Roseville pottery complete with the original raised letters mark.

“It’s almost daily that someone wants to buy something out of those cases even with them labeled reproductions,” says manager George Zukowski. “And they *would* buy it too, if we put a price on it. A great deal of this stuff is being sold by retailers – Home Goods, TJ Maxx, Tuesday Morning and elsewhere – including a lot of new majolica [a richly colored glazed art pottery] ... it’s creating all sorts of problems.”

## Selling your Treasures

**Let’s begin with a reality check.** Not every old thing in your home is worth big bucks. “The ‘Antiques Roadshow’ and all that is making people crazy,” says Karen Hartay, manager of Pilgrim Antiques Mall. “They all think they have something worth

a million dollars.”

Many dealers find themselves regularly breaking the bad news to would-be sellers. Zukowski recounts how a woman came into his shop with a platter similar to one valued at \$5,000 on the “Antiques Roadshow.” “I had to tell her that one on TV was made by Limoges – hers wasn’t. And that one was in perfect condition. Hers had a chip.”

Another woman came in with Grandma’s cookie jar expecting to sell it for big money. “I had to ask her if Grandma was alive last Christmas, because the Macy’s sticker was still on the bottom,” he adds.

As for the prices quoted on “Antiques Roadshow,” dealers note that these are for insurance [replacement] purposes, which differs from what a dealer – who needs to pay the rent and make a profit – will pay. “If you are selling something to an antique dealer,” Terry Kovel says, “you can’t expect to get more than half the retail price.”

Value and price aren’t determined just by what an object is or even how old it is – things from the 1960s may fetch high sums while 1900s items languish. It also matters where an item has been. In other words, Jackie Onassis’ pearl necklace will always be worth more than yours, even if your pearls are bigger and have a better nacre and luster. “In real estate, it’s all about location, location, location,” says veteran auctioneer Al Schragger. “Well, with antiques, it’s situation, situation, situation.”

As for selling treasures on eBay, Kovel notes that only one-third of the items listed there actually sell the first time through.

## Badger Chic

**Regional arts and crafts** from the 1700s through the 1960s and ’70s are hot all over the country, says Kovel, and the museums that specialize in them are growing as well. The old West Bend Art Museum, the foremost collector of Wisconsin art, has been renamed the Museum of Wisconsin Art, and it’s raising \$11 million to build a new home.

On Sept. 11, the importance of Wisconsin regional art and crafts will be recognized when the Milwaukee Art Museum opens its new exhibit: “The Finest in the Western Country: Wisconsin Decorative Arts 1820-1900.”

Wisconsin’s 19th century cabinetmakers, potters, weavers, quilters, blacksmiths and other craftspeople created a diverse range of utilitarian, innovative and unusual

*(continued from page 10)*  
memorabilia, garden and funky architectural items. 1110 S. First St., 414-647-1773.

**DOROTHY GALLUN AND ASSOCIATES.** The area’s most experienced antique jewelry dealer, Dorothy Gallun and her gemologist daughter Patty offer fine antique, estate and designer jewelry. N70 W5336 Bridge Rd., Cedarburg, 262-546-4523, [gallunjewelry.com](http://gallunjewelry.com).

**FOX SKYLIGHT GALLERY OF ANTIQUES.** Three floors, two stores. Upper two floors offer 90 dealers selling items as recent as 1970s and ’80s mixed in with older items. See consignment shops for basement listing. 112 E. Mineral St., 414-382-0006.

**PILGRIM ANTIQUE MALL.** Collectible jewelry, glassware, vintage clothing and linens, golden oak furniture from the early 1900s, and even a Shell gas pump (\$895) from when gasoline sold for 14.8 cents a gallon! Items are mostly from the 1950s and earlier. “Before Martha [Stewart] went to jail, we’d have crowds of ladies in here looking for her featured item of the week from her TV show,” says dealer Erika Kopp. W156 N11500 Pilgrim Rd., Germantown, 262-250-0260.

**RIVERVIEW ANTIQUE MARKET.** Top offerings include paintings by Wisconsin artists and a wide assortment of folk art. Reasonably priced decorator items practically fly out of interior designer Gene Berube’s three booths. 175 S. Water St., 414-278-9999.

**MARSH HILL LTD.** Best time to shop is when a large crate of furnishings arrives from Europe. That won’t happen again until the fall. The shop features 1800s case pieces, like Welsh cupboards and chests. New chairs made using old methods are also sold. Most intriguing: 500-pound staddle stones, once used to support granaries on English farms, now popular as garden ornaments (\$1,200 to \$1,600). 2045 W. St. Paul Ave., 414-933-1061.

**SETH’S ANTIQUES.** Wonderful collection of Victorian items – though prices tend to be high. 1233 12th Ave., Grafton, 262-376-1862, [seths-antiques.com](http://seths-antiques.com).

**WAUKESHA: A Dickens of A Place.** 521 Wisconsin Ave., 262-542-0702; **Fox Riverwalk Antique Mall**, 250 W. Main St., 262-549-4404; **Susan Kruger Antiques**, 401 Madison St., 262-542-7722 for architectural antiques; and **Family Heirlooms Antique Shop**, 259 W. Main St., 262-524-0747, offers great glass.

### FLEA MARKETS:

**ELKHORN ANTIQUE FLEA MARKET.** May 18, June 29, Aug. 10 and Sept. 28. Proprietor Nona Knapp is a stickler for real antiques and collectibles, so your chances of finding something old are better here than at any other local flea market. Most items date from the 1920s through the 1950s with some from the late 1800s, including padlocks, pens, stoneware, jewelry and BB guns. A must-stop for area antique dealers. With more than 500 dealers from eight states

and a 7 a.m. start, bring your hiking shoes. Food available. Walworth County Fairgrounds, Hwy. 11., Elkhorn.

**CEDARBURG MAXWELL STREET DAYS.** There are 1,150 dealer spaces indoors and out. Held May 25, July 20, Aug. 31 and Oct. 5 from 6 a.m. to 3 p.m. Still worthwhile, though the proliferation of fresh produce and sheer rummage has diminished the number of real antiques. Fireman’s Park, W65 N796 Washington Ave., Cedarburg.

### ANTIQUE SHOWS:

**DELAFIELD ANTIQUE SHOW.** The area’s premier antique show is held twice annually, in late April and early November, at the Delafield Hotel, 415 Genesee St. (Hwy. C). It features more than 70 high-quality local and national dealers specializing in 18th, 19th and early 20th century American and English furniture, accessories, folk art, paintings and more.

**ST. MONICA’S ANTIQUE SHOW.** Feb. 13-15, 2009: This annual show with 25 to 30 dealers starts off with a delightful social evening of wine, hot appetizers and live music (\$35). 5601 N. Santa Monica Blvd., Whitefish Bay.

**WISCONSIN ANTIQUE DEALERS ASSOCIATION** shows will be held Oct. 3-5 and again Feb. 6-8, 2009, at the Waukesha Expo Center Forum Building. More than 50 professionally screened dealers from Wisconsin and Illinois with affordable quality goods, including many show-only dealers. ■



Senior editor Mary Van de Kamp Nohl talks hutches and highboys on WUWM’s “Lake Effect,” May 16 from 10-11 a.m. and again from 11 p.m. to midnight.

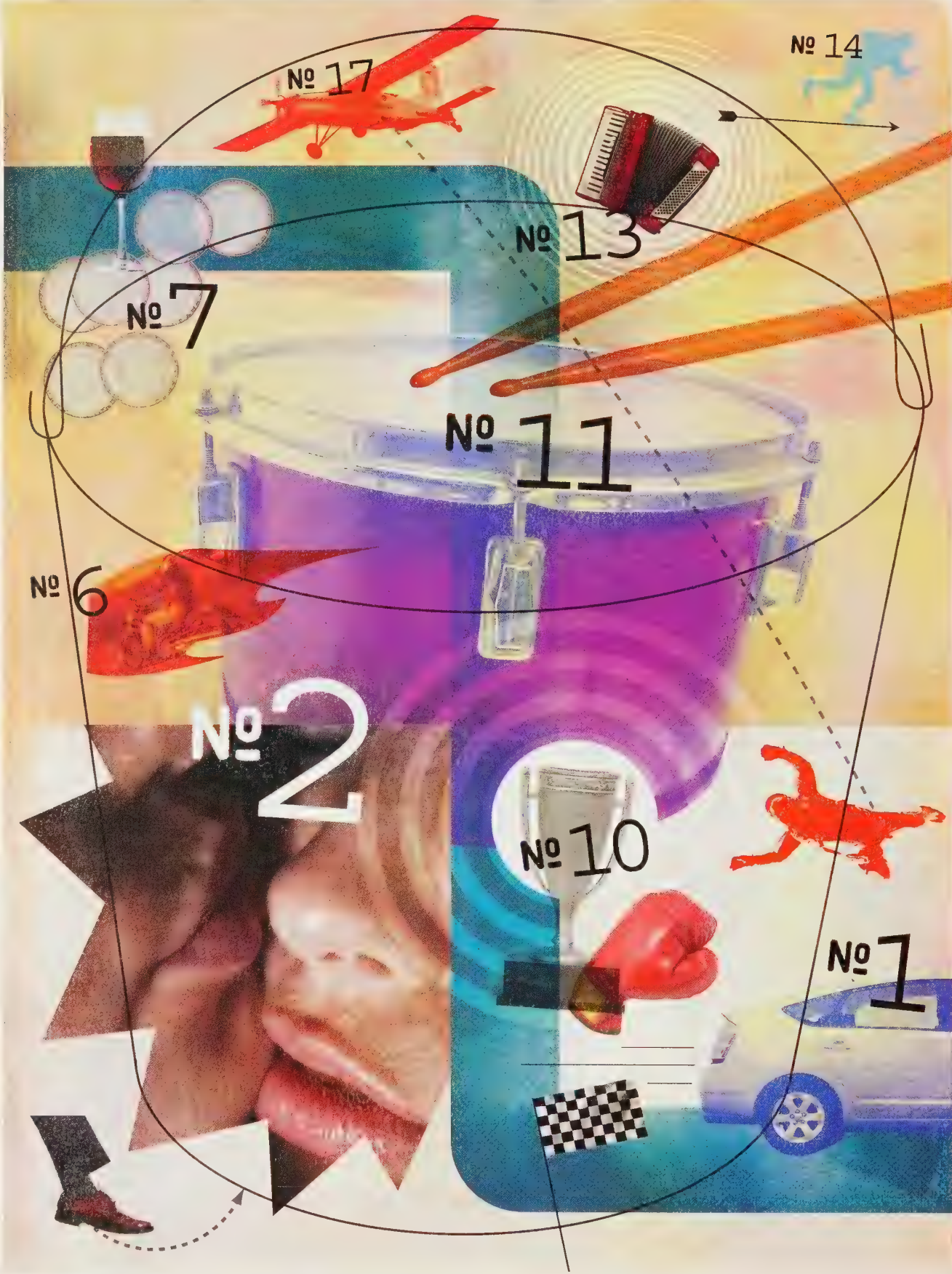
objects, explains MAM spokesman John Eding.

The title reflects the fact that Wisconsin was originally part of the American West. “From fur trade-era metalwork to the cabinetmaking traditions of European immigrants to original art pottery, the works in this exhibition provide the first major survey of decorative arts made in Wisconsin,” Eding says.

Much of the furniture, ceramics, textiles and metalwork have been brought

to light through an ongoing collaboration of the Wisconsin Historical Society and the Chipstone Foundation to document Wisconsin-made decorative arts for a publicly accessible online archive (you’ll find it at [content.wisconsinhistory.org/decorativearts](http://content.wisconsinhistory.org/decorativearts)).

“It’s going to make things made in Wisconsin more valuable, and it might even spark a whole new collecting trend,” says veteran antique dealer Ron Christman. ■







*Flavors & Fragrances*



**1991 - 1992**



## To Place an Order or for Customer/Technical Service . . .

- Call TOLL-FREE in the USA (except Wisconsin) ..... 800-227-4563
- Call TOLL-FREE from Wisconsin and Canada ..... 800-558-9160
- Call from anywhere in the world ..... 414-273-3850
- FAX ..... 414-273-5793
- TELEX ..... 26-843 Aldrich MI
- TWX ..... 910-262-3052 Aldrichem MI
- Write ..... Flavors & Fragrances  
Aldrich Chemical Company, Inc.  
1101 West Saint Paul Avenue  
Milwaukee, WI 53233 USA
- Office hours: 7:30 a.m. to 5:00 p.m. (Central Time) - Monday through Friday

## Aldrich Service . . .

- NO MINIMUM ORDER requirements - every order is welcome!
- Your order is normally shipped THE SAME DAY it is received.
- NO "STANDARD" PACKAGE SIZES (order only what you need - every order is custom weighed and packaged).
- Over 200 products certified as KOSHER (please inquire).
- We invite requests for BULK QUANTITIES of items in this catalog.
- All products in this list are handled and characterized under strict GOOD MANUFACTURING PRACTICES (GMP) conditions in our dedicated facility.

## Abbreviations . . .

bp	Boiling point, °C (760 mm pressure unless otherwise specified)	Fp	Flash point, °F (closed cup)
d	Density at 20°±5°C	FW	Formula weight
FCC	Meets specifications in the <i>Food Chemicals Codex</i>	mp	Melting point, °C
FEMA	Flavor and Extract Manufacturers' Association of the United States	NA	FEMA number not available
		[ ]	Number within brackets is the Chemical Abstracts Service registry number
		Note:	Physical constants cited herein are typical values

## Cross References . . .

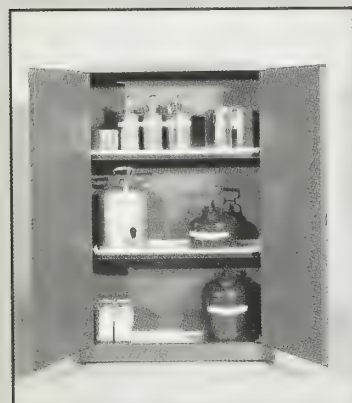
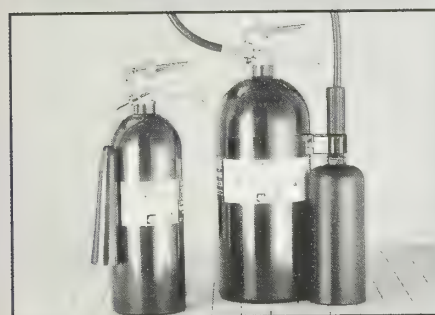
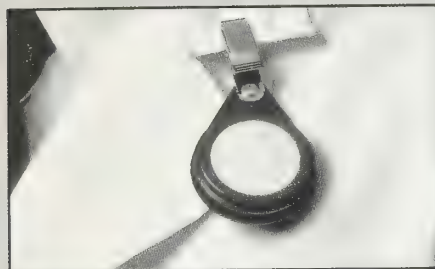
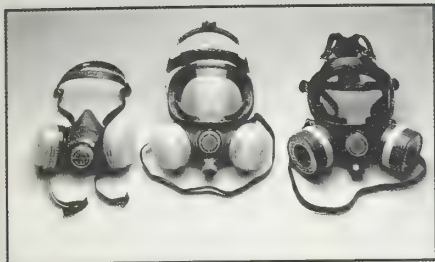
Secondary names for a product are included in the alphabetical listing, followed by the primary name (in parentheses) and pricing information. *Physical constants and organoleptic descriptions are cited only under the product's primary name.*

## About our Cover . . .

Our chemist collector loves Dutch 17th century paintings, particularly of biblical subjects by Rembrandt students. But sometimes he finds landscapes or still lifes which are just too good to pass. The simple and enchanting still life by Peter Claesz (*ca.* 1596-1660), one of Holland's ablest still life specialists, is surely a fitting cover for our catalog.

Aldrich cannot anticipate the uses to be made of products or information contained herein, and accepts no responsibility therefore. Unless otherwise agreed in writing, Aldrich sells its products without warranty, expressed or implied, and users assume all responsibility for any and all loss or damage arising from the use or handling of Aldrich's products. Statements concerning Aldrich products are not recommendations or permission to use same in the infringement of any patent or to practice a patented invention without a license. Aldrich warrants that its products conform to the information contained in this and other Aldrich publications. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

# *Dedicated to Safety... in Research and Industry*



We offer over 2000 high quality safety products, backed by prompt delivery and the technical experience gained in 40 years of safety manufacturing, handling, storing and shipping hazardous materials. We stand ready to service your safety equipment needs.

**Contact us for a free copy of our safety catalog.**

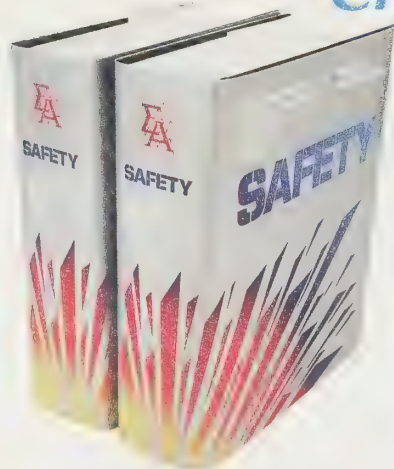


## **Aldrich Safety Products**

Aldrich Chemical Company, Inc.  
P.O. Box 355, Milwaukee WI 53201  
(414) 273-3850 · 800-558-9160  
FAX 800-962-9591

# The Sigma-Aldrich Library of Chemical Safety Data

Edition II, two-volume set



Over 4,200 pages in two hardbound volumes with dust jacket. Page size 9½ x 12in.

**A reference for the safe handling of over 14,500 chemicals representing 24,000 Sigma and Aldrich products**

The second edition of *The Sigma-Aldrich Library of Chemical Safety Data* is an extensive, two-volume collection of up-to-date information. The data represent a combination of material safety information from both Sigma and Aldrich Chemical Companies.

The library will be useful to all users of chemicals who must assess the individual and composite hazards of mixtures, solutions, and reactions. It should

prove of assistance to employers in compiling information to comply with the proposed "Control of Substances Hazardous to Health" (COSHH) regulations.

New information in this edition includes appearance of the chemical, irritation data and human toxicity. Indices include chemical name, Chemical Abstracts Service registry number, molecular formula, Aldrich product number and Sigma product number.

**1,2-Dichloropropane**  
CAS [78-87-5]  
Aldrich D7 218-2

ClC(Cl)CC

mp. 100°  
bp. 95-96°  
vd. 40.0mm (19.4°C)  
vd. 100.0mm (39.4°C)  
el. 3.4  
jel. 14.5

Ep. 40°F(4°C)  
d 1.156  
ns. 1.4384  
vd. 3.89

**APPEARANCE:** Colorless liquid  
RTECS# TX9625000

**IRRITATION DATA:** eye-rbt 500 mg m d

**TOXICITY DATA:** ori-rat LD50 2196 mg/kg  
skn-rbt LD50 8750 mg/kg

**REVIEWS AND STANDARDS:** ACGIH TLV TWA 75 ppm STEL 110 ppm  
OSHA standard-air TWA 75 ppm FEREAC 39 23540 74  
EPA 1986 Genetox Program experimental results have been published — see entry in RTECS for data. NTP Carcinogenesis studies (gavage) some evidence mouse NTPTR NTP-TR-263.86 NTP

**HEALTH HAZARDS:** Harmful if swallowed, inhaled, or absorbed through skin. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation. Prolonged contact can cause nausea, headache and vomiting. Can cause CNS depression. Repeated exposure can cause damage to the liver, damage to the kidneys. Causes dermatitis.

**CHRONIC EFFECTS:** Possible carcinogen

**FIRST AID:** In case of contact, immediately flush eyes or skin with

Carcinogenesis studies (gavage) equivocal evidence rat NTPTR NTP-TR-263.86

copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, wash out mouth with water. Call a physician.

**INCOMPATIBILITY:** Oxidizing agents, acids, bases, aluminum and its alloys

**DECOMPOSITION PRODUCTS:** Toxic fumes of hydrogen chloride gas, carbon monoxide, carbon dioxide and phosgene gas

**HANDLING AND STORAGE:** Wear appropriate NIOSH/MSHA approved respirator, chemical-resistant gloves, safety goggles, other protective

clothing. Use only in a chemical fume hood. Safety shower and eye bath. Do not breathe vapor. Do not get in eyes on skin or on clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Irritant. Possible carcinogen. Keep tightly closed. Keep away from heat, sparks and open flame. Store in a cool, dry place. Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back.

**WASTE DISPOSAL:** 1  
**SPILLS OR LEAKS:** d, c, i, a, 1  
**EXTINGUISHING MEDIA:** G

- Name of chemical.
- Chemical Abstracts Service Registry number.
- Aldrich and/or Sigma Product number.
- Structure and formula.
- Physical data.
- Appearance of the chemical.
- Reference to the Registry of Toxic Effects of Chemical Substances.
- Irritation data.

- Toxicity data, reviews and standards.
- Acute health effects.
- Chronic health effects.
- FIRST AID measures.
- Incompatible materials and conditions.
- Products of decomposition.
- Protective equipment, handling precautions, specific health-hazard designations and storage

- conditions.
- \*Suggested method of disposal.
- \*Recommended protective equipment and procedures for spill or leak clean-up.
- \*Extinguishing agents recommended for fires involving the material.

\* Tables explaining the reference codes in each category will be found at the front of the book.

**Z16,000-8 The Sigma-Aldrich Library of Chemical Safety Data, Edition II, \$325.00**  
edited by Robert E. Lenga (ISBN No. 0-941633-16-0)  
(Includes Explanation of Codes Chart, Z17,475-0)

**Z17,475-0 Explanation of Codes Chart (ISBN No. 0-941633-17-9) \$3.00**

To Place Orders: 800-558-9160. For Technical Information: 800-231-8327



chemists helping chemists in research & industry

**aldrich chemical co.**

® P.O. Box 355, Milwaukee, WI 53201 USA • Phone (414) 273-3850 • 800-558-9160 & FAX 800-962-9591

1.

## ALDRICH CHEMICAL COMPANY

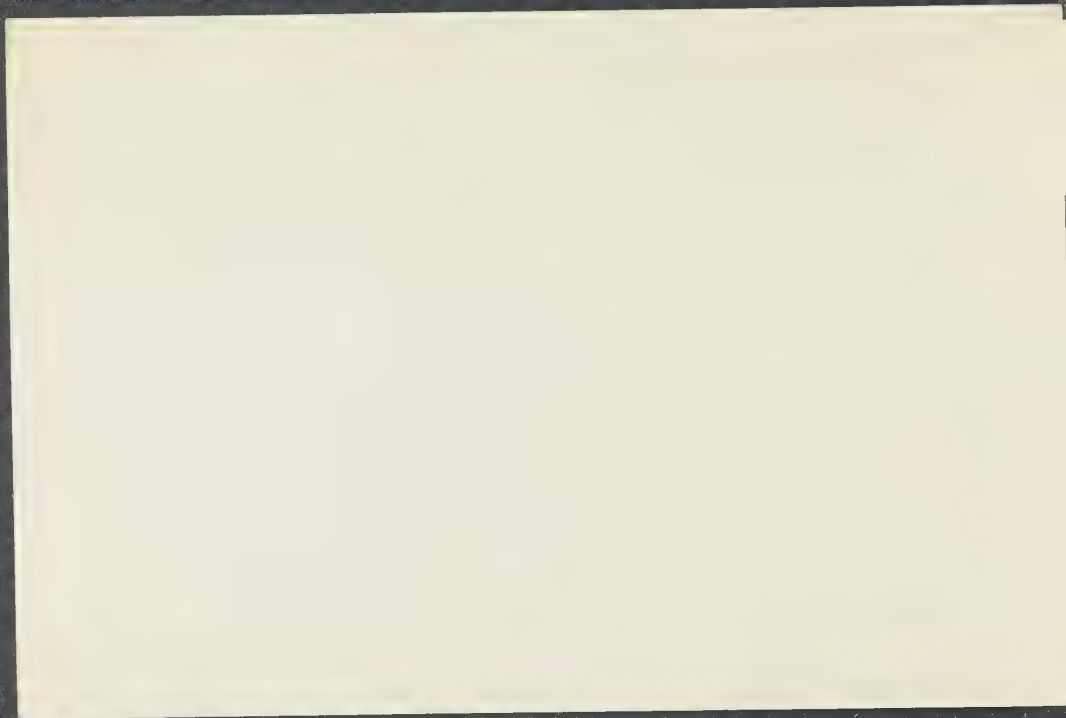
The key to our growth has been service...service in providing thousands of new chemicals, service in custom syntheses, service with special research assignments and service in consultation.

We now add at least five compounds a day to our list, and keep you up-to-date through our Kardindex System. Enclosed are two typical cards of the series. The Aldrich Kardindex System has proven so useful to chemists that we have decided to continue it on a regular basis. This particular set is an addendum to the series. Keep it with the rest of your file as a reference guide to our company personnel, facilities, background...and how we can help you in your work.

The last card of this packet is an order form for those who have not yet availed themselves of our services. Check the items desired and send the card to us. For special, individual needs, contact us in person, by phone, letter or TWX.

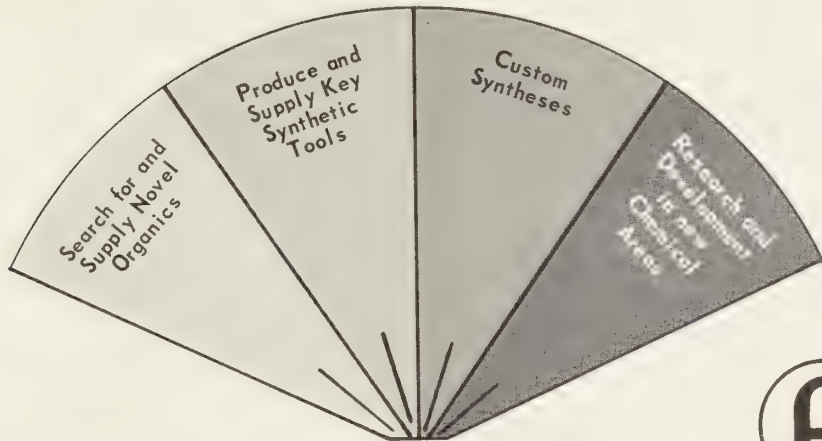
It will be our pleasure to serve you.





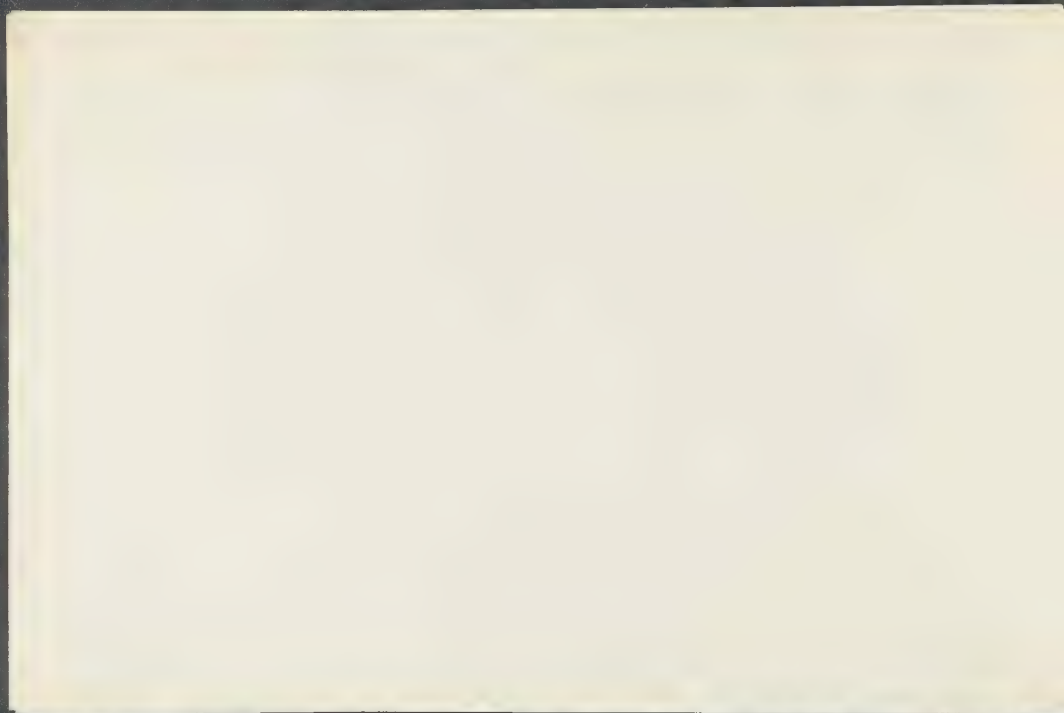
4. **ALDRICH CHEMICAL COMPANY**

Our Broad Spectrum of Service to  
the Chemical Industry



**ALDRICH**





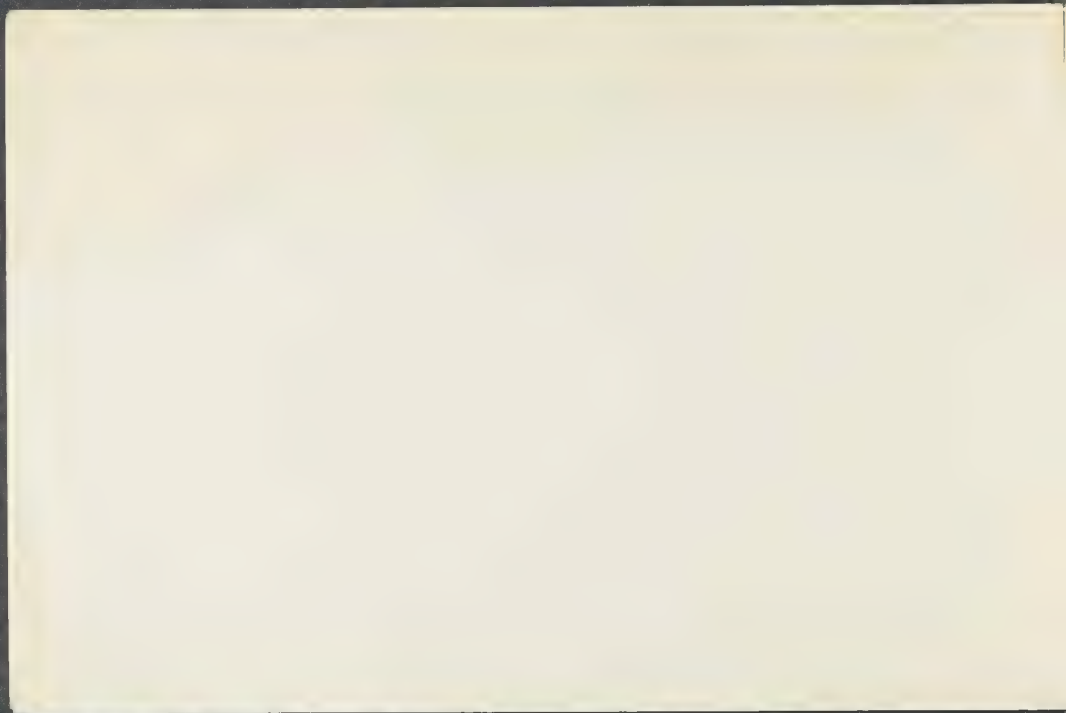


## ALDRICH CHEMICAL COMPANY

### What makes us any different from other chemical suppliers?

1. Prompt Service: Over 90% of all orders received by us on any day are shipped the same day.
2. The Purities of our products are checked by a well staffed and experienced analytical department.
3. Our Prices are firm and not subject to change during the life of our catalog.
4. Our Catalog is unique in listing our products not only alphabetically and by classes of compounds, but also by empirical formulae and, where compounds are difficult to name, with structural formulae.
5. Flexible Production Schedules: No requests for custom syntheses are too small for us to consider.
6. We carry out many confidential custom syntheses.
7. Our constant aim has been the improvement of our Organic Research Dept., and our goal to have our sales of fine chemicals support its work.





# ALDRICH CHEMICAL COMPANY

## Some of our Production and Analytical Lab Facilities



I.R. Spectrophotometer in  
Analytical Laboratory



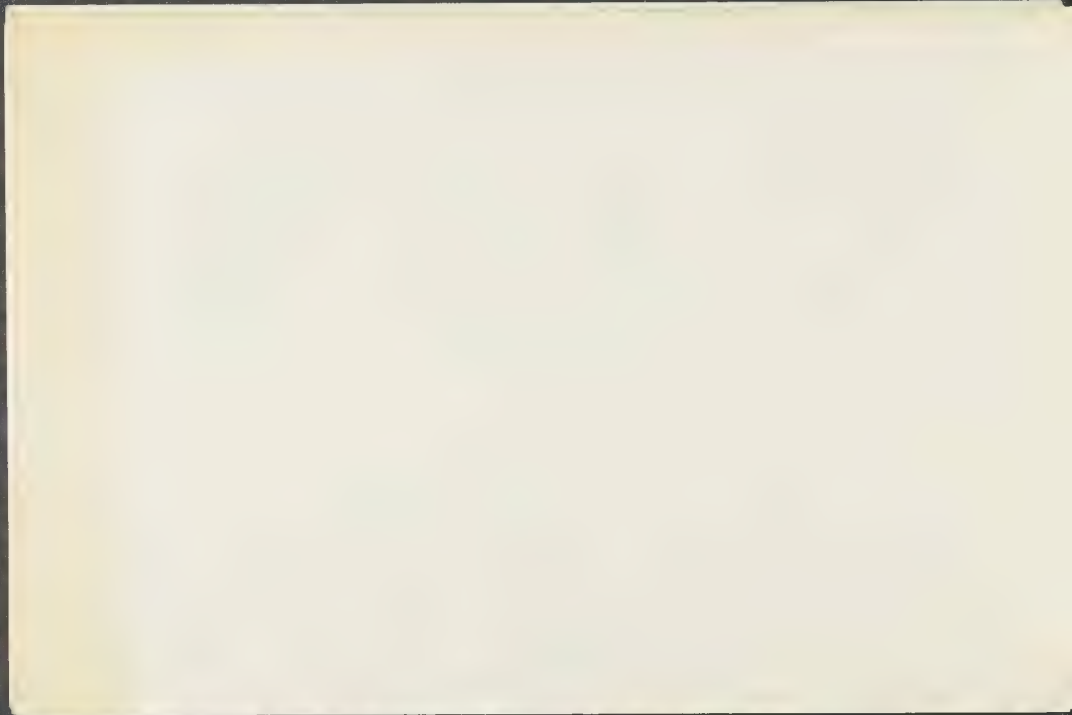
Mrs. Elfriede Rothe - Head of our  
Analytical Dept., examining a  
gas chromatogram



A corner in our  
pilot plant

Hank Koppel - Head of Pro-  
duction, at work in our  
Hydrogenation Laboratory.  
"We welcome your inquiries  
for custom syntheses; none  
too large or too small."





## ALDRICH CHEMICAL COMPANY

### More Scientific Contributions From Our Laboratories

The Absolute Configuration and Partial Synthesis of  $\alpha$ ,  $\beta$ ,  $\gamma$ , and  $\delta$ -Skytanthine --E.J. Eisenbraun, et al., Chem. and Ind., 1962, pp. 1242-1243.

Hydrogen Peroxide - Vanadium Pentoxide Oxidation of Cyclohexenes --E.J. Eisenbraun, et al., J. Org. Chem., 28, 2057 (1963).

Monoamine Oxidase Inhibitors (Hydrazides)

--J.H. Biel, et al., "Psychopharmacologic Agents" (ed., Max Gordon), Academic Press, N.Y. (1964); in press.

Some Rationales in the Design of New Antidepressant and Antianxiety Agents --J.H. Biel, Abstracts, 145th Meeting, September 1963, American Chemical Society.

Chemopharmacologic Approaches to the Development of New Psychotropic Drugs --J.H. Biel, et al., Abstracts II. International Conference. The Manfred Sakel Foundation, p. 25 (October-November (1962).

Some Antidepressant Drugs and their Mechanism of Action on Excitable Membranes --J.H. Biel, et al., Ann. N.Y. Acad. Sci. 107, Art. 3, 1139 (1963).





## ALDRICH CHEMICAL COMPANY

Overseas Sales Representatives

AUSTRIA - Lobachemie

AUSTRALIA - H.B. Selby and Co.  
Pty. Ltd.

CANADA - Daniels Chemical Co.

FRANCE - G. Bonnassies

GERMANY - EGA-Chemie K.G.

GR. BRITAIN - Ralph N. Emanuel Ltd.

HOLLAND - Roger R. Brunschwig

ITALY - Societa Italiana Chimica

NEW ZEALAND - George Wilton and  
Co. Ltd.

SWITZERLAND - CAMAG

Overseas Companies Represented by Aldrich in the U.S.

CAMAG, Switzerland

CILAG-CHEMIE A.G., Switzerland

COALITE AND CHEMICAL

PRODUCTS LIMITED, England

EGA-CHEMIE KG, Germany

HEIDENHEIMER CHEMISCHES

LABORATORIUM, Germany

RESEARCH LABORATORIUM

DR. C. JANSSEN n.v., Belgium

DR. F. RASCHIG, G.m.b.H., Germany

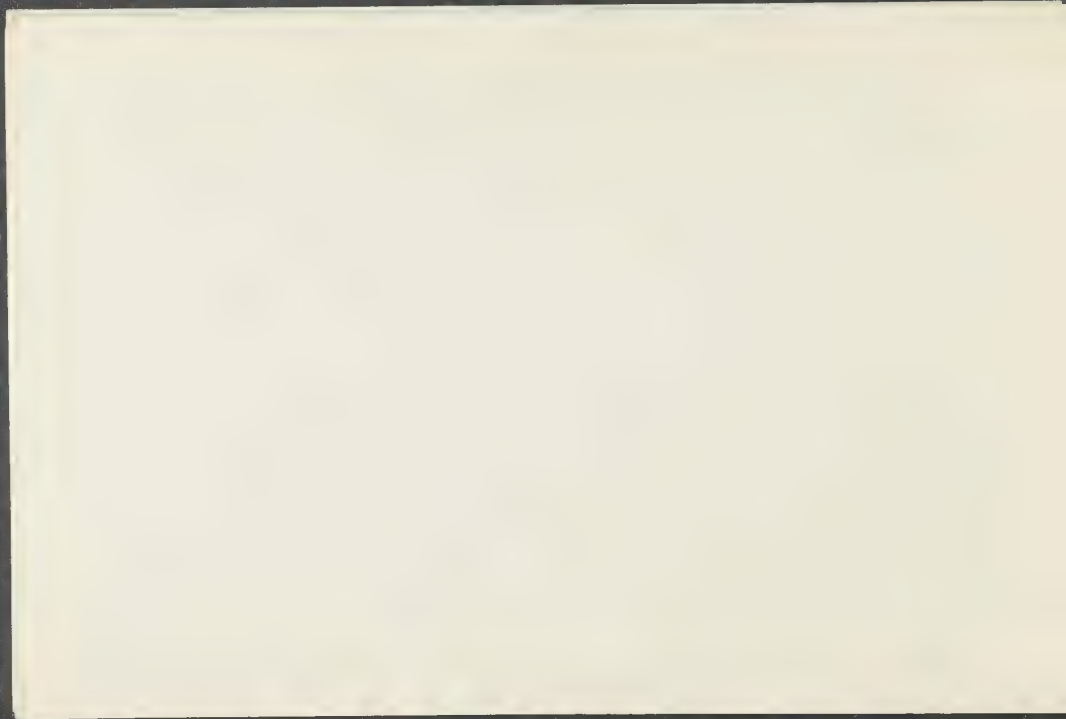
RÜTGERSWERKE A.G., Germany

CHEMISCHE FABRIK

WEYL A.G.,

Germany





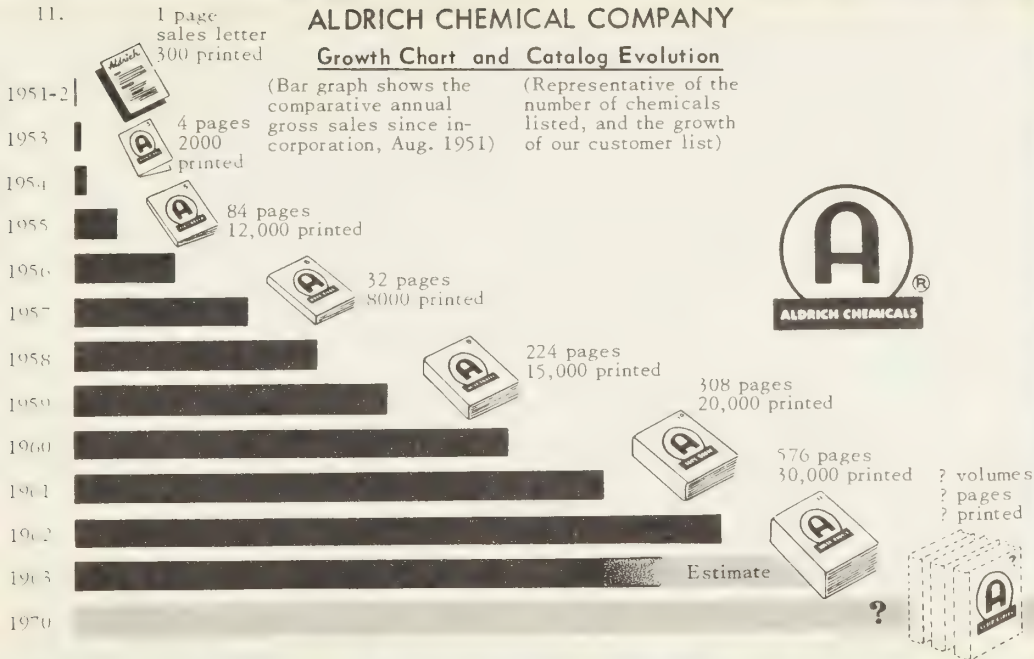


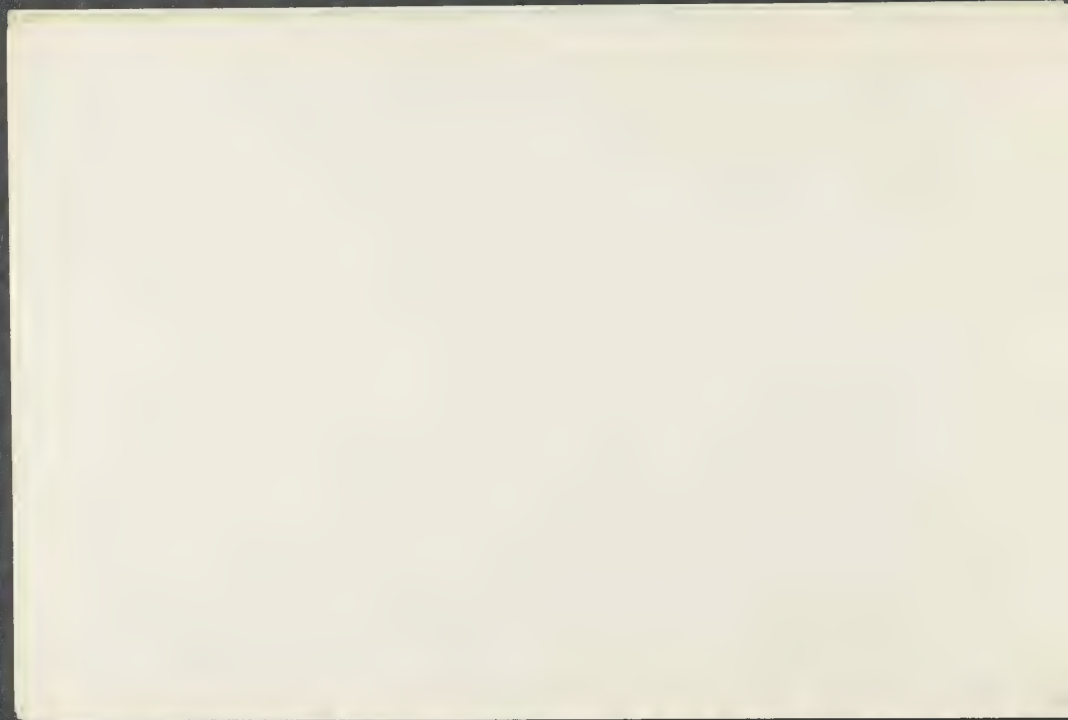
11.

# ALDRICH CHEMICAL COMPANY

## Growth Chart and Catalog Evolution

(Bar graph shows the comparative annual gross sales since incorporation, Aug. 1951) (Representative of the number of chemicals listed, and the growth of our customer list)





## ALDRICH CHEMICAL COMPANY

Organic Research Chemicals

...and for  
Inorganic  
Research  
Chemicals—



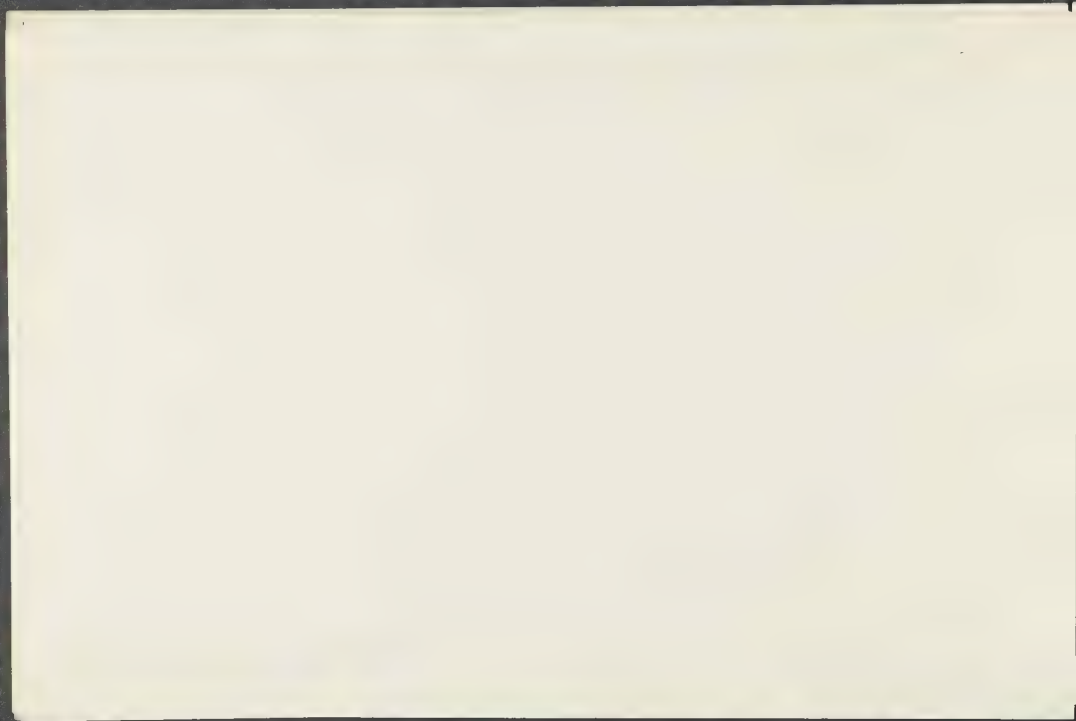
8 Congress Street

Beverly, Mass., USA

Tel 617 922-1875

(A joint venture of the Aldrich  
Chemical Co. and Metal Hydrides Inc.)



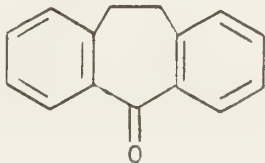


13.

D10, 498

10, 11-Dihydro-5H-dibenzo[a, d]cyclohepten-5-one  
(dibenzosuberone)

$C_{15}H_{12}O$



$n_D^{20}$  1.6331

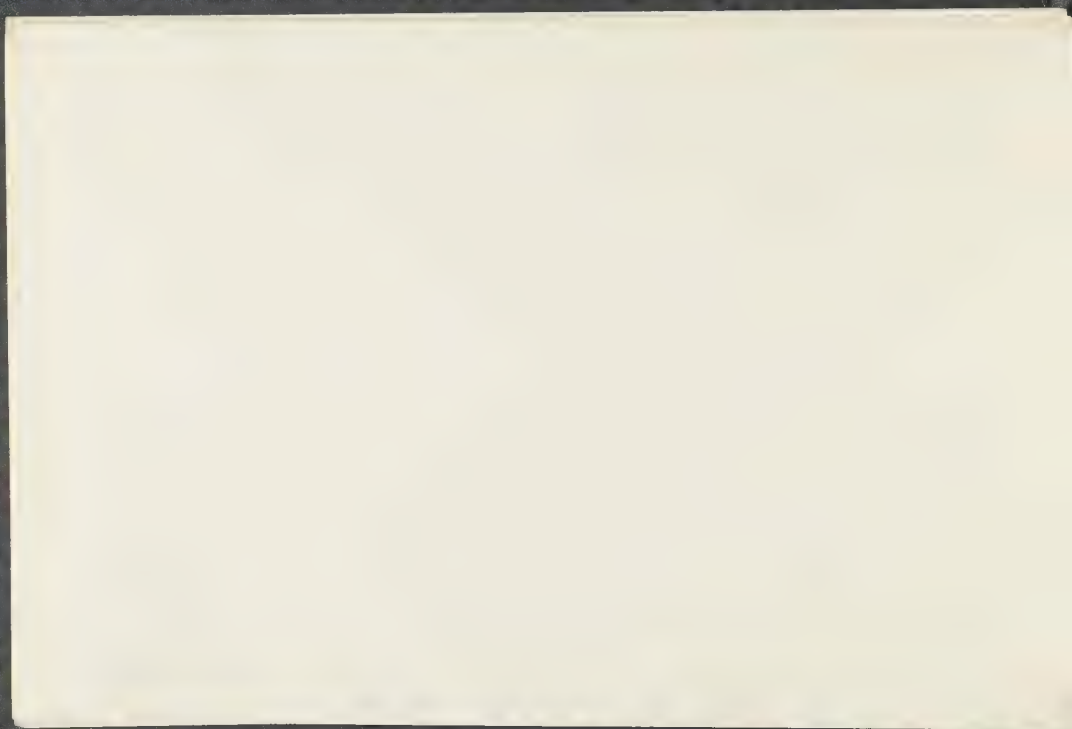
b.p. 148°/0.3 mm.

Ref: J. Am. Chem. Soc. 73, 1673 (1951)

25 g. - \$6.00



PLEASE ORDER BY BOTH NAME AND NUMBER.

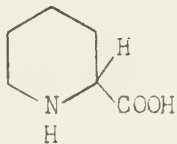


14.

P4585

Pipecolic acid (2-piperidinecarboxylic acid)

$C_6H_{11}NO_2$



m. p. (lit) 264<sup>o</sup>

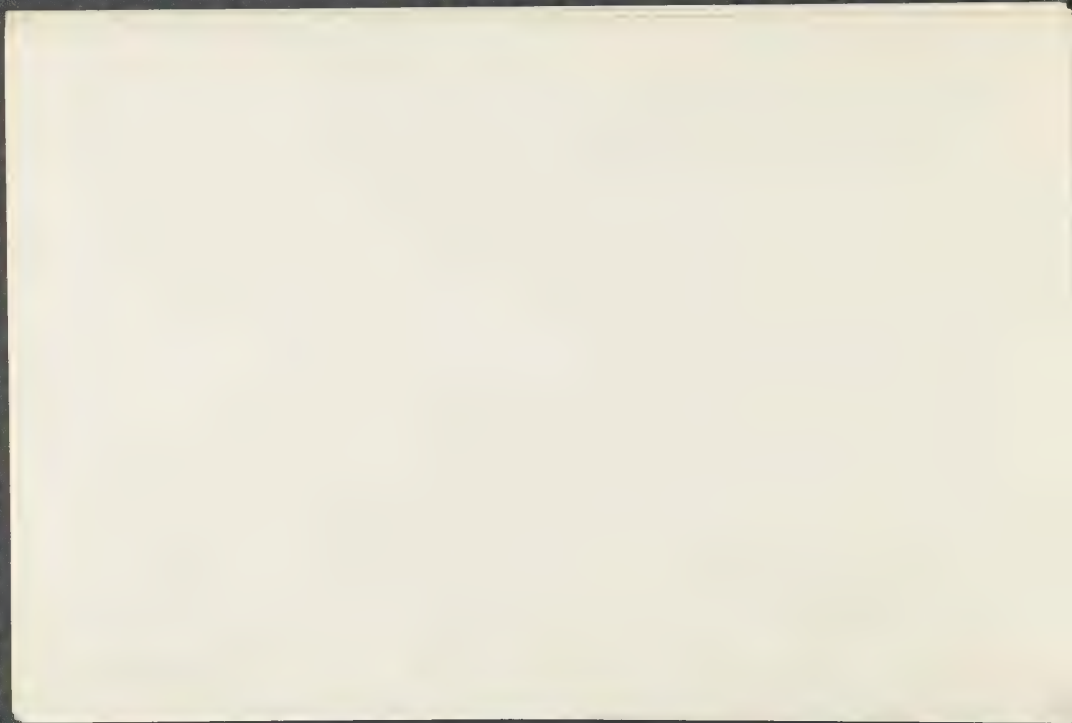
(obs) 279-281<sup>o</sup> (dec.)

25 g. - \$10.00

100 g. - 37.00



PLEASE ORDER BY BOTH NAME AND NUMBER.





Date .....

ALDRICH CHEMICAL CO., INC.  
2371 North 31st Street  
Milwaukee 10, Wis.

Gentlemen:

Please put me on your mailing list to receive .....

Aldrich Chemical Co.'s Kardindex File Sets.

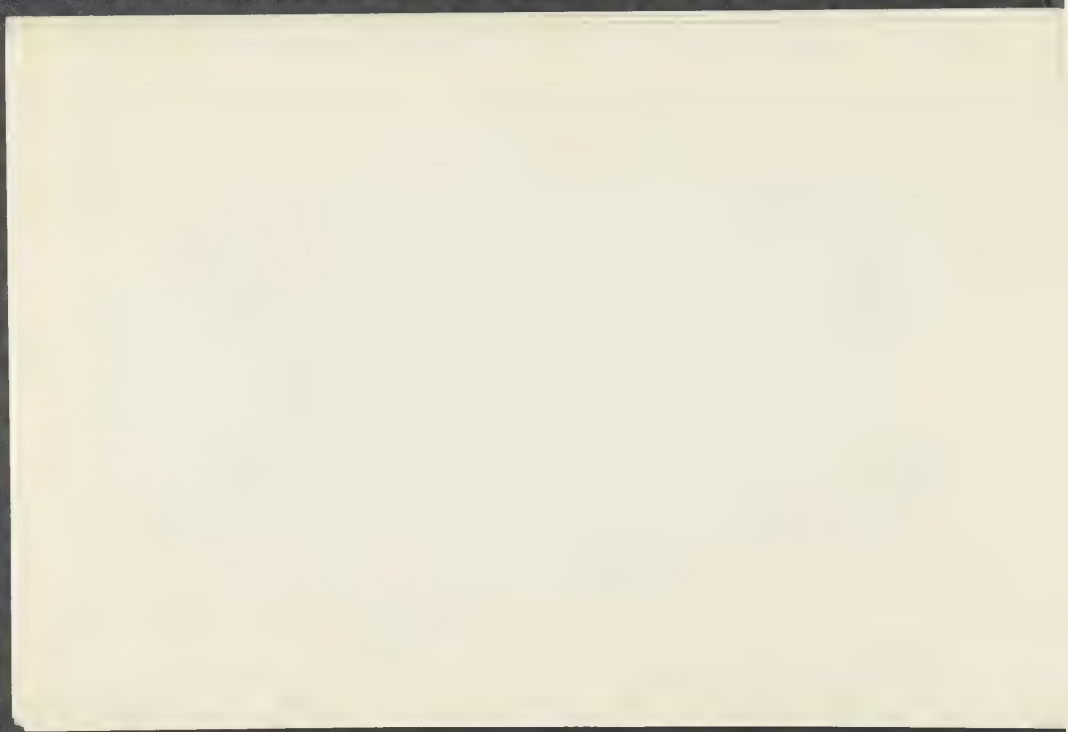
Aldrich Chemical Co.'s Catalog No. 11.

Name ..... Position .....

Company .....

Address .....

City ..... Zone ..... State .....



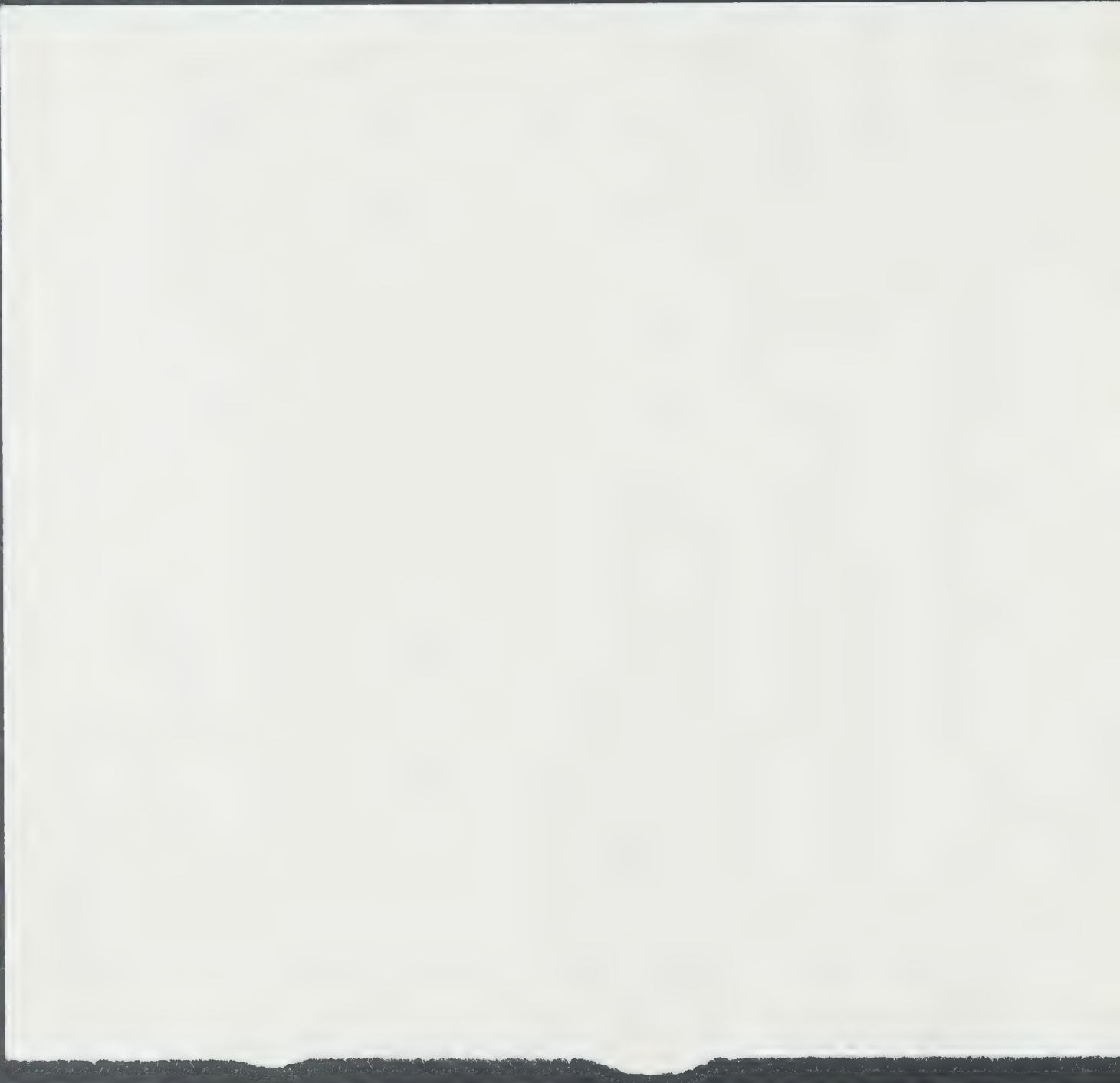
*For a tape-recorded "show" on Aldrich, used to  
introduce new employees to the company*

I hope that as you get to know Aldrich you will realize that our main concern is with people: our employees, our families, our customers.

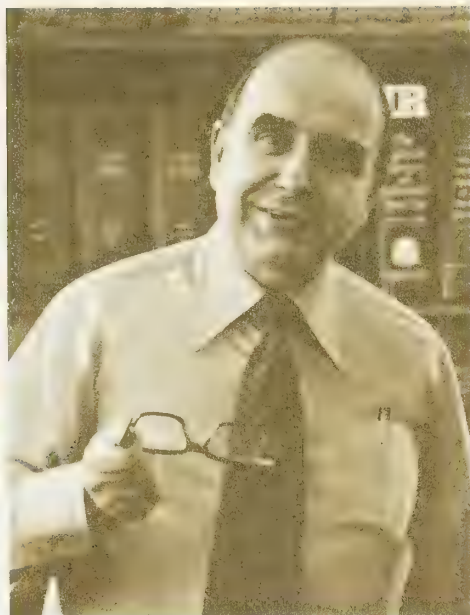
When I started Aldrich in a garage in the early fifties, I had a dream: to make Aldrich the best fine chemical company in the world. We have come a long way in succeeding towards that goal, and that has been so because of the quality and dedication of the people we have at Aldrich. Significantly most of our first employees are still with us - George Skeff, Beverly Horick, Stella Ward, Paul Freeman, ~~and~~ Phil Holm. I could go on for hours talking about the competence and imagination of our people.

And we have succeeded in competing with some of the largest companies of the world - Eastman ~~and~~ Kodak, Merck and J.T. Baker - because our customers know that we treat them as people, and we have really saved our customers millions of man hours of work by supplying chemicals which they would have had to make themselves but for Aldrich.

We have been able to do this only because of our concern for people - our own people and our customers. Your management doesn't give a snowball in hell whether your hair is long or short - or not at all like mine - whether you are black or white or yellow - what counts here is what kind of people we are.



# Please Bother Us!



One of the most pleasurable aspects of my work is talking with our customers. I spend several days a month visiting university laboratories and meeting with our industrial customers to ensure that the quality of our service is good and the purity of our chemicals excellent, and to get suggestions from fellow chemists for new products we should add to our Catalog/Handbook.

Occasionally I may even get a complaint — hardly ever about purity — but sometimes about delays in delivery. We list over 10,000 products, including hundreds of new stains, dyes and inorganic chemicals, in this Catalog/Handbook. Well over 96% of these are in stock, ready for immediate delivery. A few products are back-ordered, and we make a great effort to reduce their number.

Nothing is as important to me as having our customers know that we think of them as individuals, not as names on a printout or numbers on a list. It would be unthinkable to send our customers to intermediaries or dealers who cannot possibly give as good service or know as much about our products as we do. At Aldrich, we want no barriers between our customers and us. Order from Aldrich directly, and if you have any questions, ask us. We want to be bothered.

I hope Aldrich will never become so large that we cannot be "bothered" by our customers. We care immensely and sincerely, and if you should ever wish to discuss a problem directly with me or any of our very capable technical or sales personnel, please call us at (414) 273-3850. It is important to me that we preserve our tradition of service and quality. So please, bother us.

A handwritten signature in blue ink, which appears to read "Alfred Bader". The signature is written in a cursive, flowing style.

Dr. Alfred Bader, President  
Aldrich Chemical Company, Inc.

Catalog  
Handbook  
of Fine  
Chemicals

# Aldrich



1981-1982



# Please Bother Us!

One of the most pleasurable aspects of my work is talking with our customers. I spend several days a month visiting university laboratories and meeting with our industrial customers to ensure that the quality of our service is good and to get suggestions from fellow chemists for new products we should add to our Catalog/Handbook.

Occasionally I may even get a complaint — hardly ever about purity — but sometimes about delays in delivery. We list over 10,000 products, including hundreds of new stains, dyes and inorganic chemicals, in this Catalog/Handbook. Well over 96% of these are in stock, ready for immediate delivery. A few products are back-ordered, and we make a great effort to reduce their number.

Nothing is as important to me as having our customers know that we think of them as individuals, not as names on a printout or numbers on a list. It would be unthinkable to send our customers to intermediaries or dealers who cannot possibly give as good service or know as much about our products as we do. At Aldrich, we want no barriers between our customers and us. Order from Aldrich directly, and if you have any questions, ask us. We want to be bothered.

I hope Aldrich will never become so large that we cannot be "bothered" by our customers. We care immensely and sincerely, and if you should ever wish to discuss a problem directly with me or any of our very capable technical or sales personnel, please call us at (414) 273-3850. It is important to me that we preserve our tradition of service and quality. So please, bother us.

*Alfred Bader*

Dr. Alfred Bader, President  
Aldrich Chemical Company, Inc.

chemists helping chemists in research & industry

# Chemists Helping Chemists

Aldrich is changing — perhaps evolving is a better word — as we meet the challenging demands of today's chemical research.

Our goal is to develop an extremely comprehensive line of chemicals and related services, making Aldrich the one-stop shop for all your chemical research needs.

Our reputation as chemists helping chemists in research and industry has grown because of our sensitivity to your needs.

It's important for chemists to know that we can supply their fine-chemical requirements through all phases of a project, from conception through development to actual production, and at the highest practical level of purity.

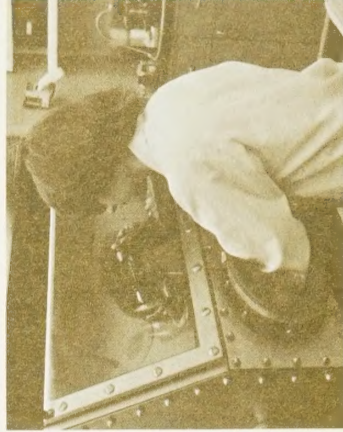
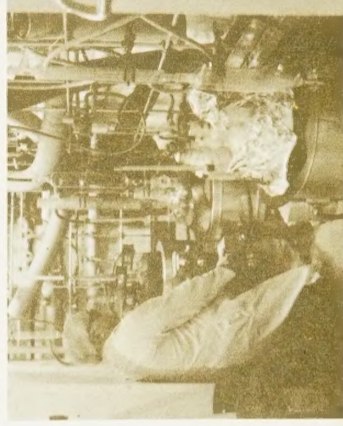
And over 96% of the more than 10,000 chemicals listed in our

catalogs are on our warehouse shelves. Our wide inventory, including organic as well as inorganic chemicals, stains and dyes, catalysts, deuterated solvents, spectrochemicals, organoboron hydrides, and polymers are all available for immediate shipment.

Cost savings are a concern also. Labor constitutes a big part of our production costs. As sales go up, so do our batch sizes and, correspondingly, per-unit costs are reduced.

To place your order, all you need do is call us on our toll-free WATS line (800-558-9160). If you'd like your order shipped the same day, call us before 10 a.m. and request *Speedline Service*.

We want to be the chemical source you can rely on. Our expectations are great and yours can be too.



Catalog  
Handbook  
of Fine  
Chemicals

# Aldrich



1981-1982



Catalog/Handbook  
of Fine Chemicals

**Main Sales Office**

P.O. Box 355  
Milwaukee, WI 53201  
**Order Desk**  
(800) 558-9160 **Toll-free**  
**Office**  
(414) 273-3850  
TWX (910) 262-3052  
**Telex** 26 843  
**Office Hours**  
7:45 - 6:30  
**Shipping Address:**  
940 W. Saint Paul Ave.  
Milwaukee, WI 53233

**Eastern Sales Office**

159 Forrest Street  
Metuchen  
New Jersey 08840  
**Telephone**  
(201) 549-6300  
TWX (710) 998-0575  
**Office Hours**  
8:30 - 5:00

**In Canada**

Aldrich Chemical Co.  
(Canada), Ltd.  
1500 Stanley Street  
Suite 405  
Montreal, Quebec  
H3A 1R3  
**Telephone**  
(514) 845-9289  
**Eastern & Atlantic**  
(800) 361-6141 **Toll-free**  
TWX (610) 421-4608  
**Office Hours**  
9:00 - 5:00

chemists helping chemists in research & industry

**aldrich chemical co.**





# Please Bother Us!

One of the most pleasurable aspects of my work is talking with our customers. I spend several days a month visiting university laboratories and meeting with our industrial customers to ensure that the quality of our service is good and to get suggestions from fellow chemists for new products we should add to our Catalog/Handbook.

Occasionally I may even get a complaint — hardly ever about purity — but sometimes about delays in delivery. We list over 10,000 products, including hundreds of new stains, dyes and inorganic chemicals, in this Catalog/Handbook. Well over 96% of these are in stock, ready for immediate delivery. A few products are back-ordered, and we make a great effort to reduce their number.

Nothing is as important to me as having our customers know that we think of them as individuals, not as names on a printout or numbers on a list. It would be unthinkable to send our customers to intermediaries or dealers who cannot possibly give as good service or know as much about our products as we do. At Aldrich, we want no barriers between our customers and us. Order from Aldrich directly, and if you have any questions, ask us. We want to be bothered.

I hope Aldrich will never become so large that we cannot be "bothered" by our customers. We care immensely and sincerely, and if you should ever wish to discuss a problem directly with me or any of our very capable technical or sales personnel, please call us at (414) 273-3850. It is important to me that we preserve our tradition of service and quality.

So please, bother us.



Dr. Alfred Bader, President  
Aldrich Chemical Company, Inc.

# Chemists Helping Chemists

Aldrich is changing — perhaps evolving is a better word — as we meet the challenging demands of today's chemical research.

Our goal is to develop an extremely comprehensive line of chemicals and related services, making Aldrich the one-stop shop for all your chemical — research needs.

Our reputation as chemists helping chemists in research and industry has grown because of our sensitivity to your needs.

It's important for chemists to know that we can supply their fine-chemical requirements through all phases of a project, from conception through development to actual production, and at the highest practical level of purity.

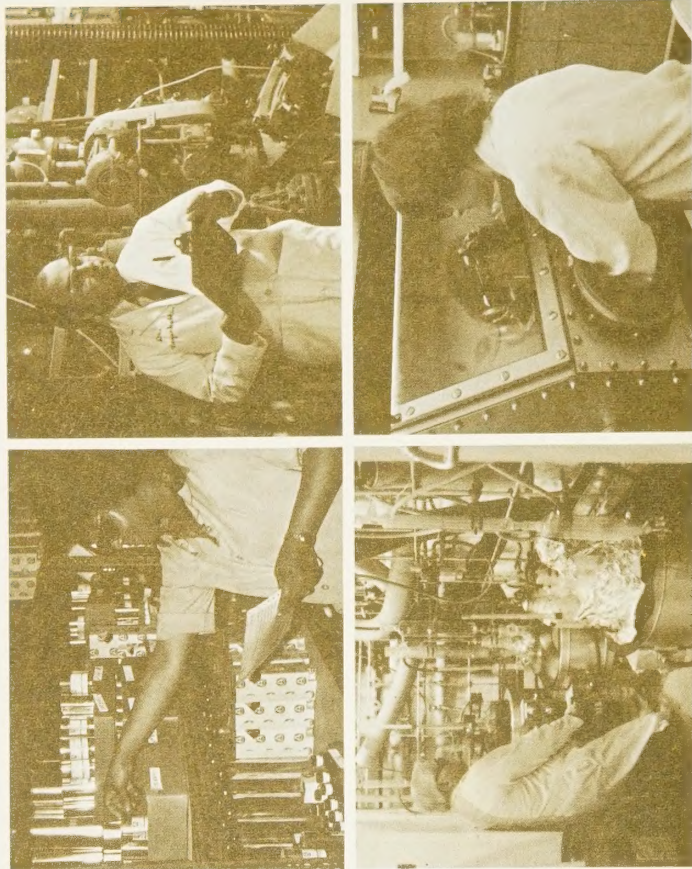
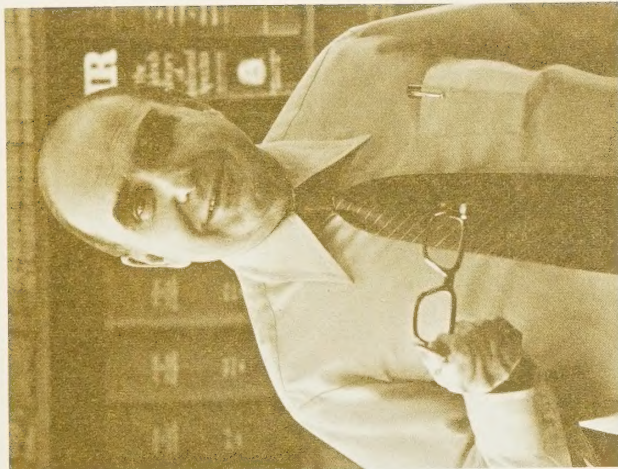
And over 96% of the more than 10,000 chemicals listed in our

catalogs are on our warehouse shelves. Our wide inventory, including organic as well as inorganic chemicals, stains and dyes, catalysts, deuterated solvents, spectrochemicals, organoboron hydrides, and polymers are all available for immediate shipment.

Cost savings are a concern also. Labor constitutes a big part of our production costs. As sales go up, so do our batch sizes and, correspondingly, per-unit costs are reduced.

To place your order, all you need do is call us on our toll-free WATS line (800-558-9160). If you'd like your order shipped the same day, call us before 10 a.m. and request *Speedline Service*.

We want to be the chemical source you can rely on. Our expectations are great and yours can be too.



chemists helping chemists in research & industry

Catalog  
Handbook  
of Fine  
Chemicals

# Aldrich



1981-1982



Catalog/Handbook  
of Fine Chemicals

**Main Sales Office**

P.O. Box 355  
Milwaukee, WI 53201  
**Order Desk**  
(800) 558-9160 **Toll-free**  
**Office**  
(414) 273-3850  
TWX (910) 262-3052  
Telex 26 843  
**Office Hours**  
7:45 - 6:30  
**Shipping Address:**  
940 W. Saint Paul Ave.  
Milwaukee, WI 53233

**Eastern Sales Office**

159 Forrest Street  
Metuchen  
New Jersey 08840  
**Telephone**  
(201) 549-6300  
TWX (710) 998-0575  
**Office Hours**  
8:30 - 5:00

**In Canada**

Aldrich Chemical Co.  
(Canada), Ltd.  
1500 Stanley Street  
Suite 405  
Montreal, Quebec  
H3A 1R3  
**Telephone**  
(514) 845-9289  
**Eastern & Atlantic**  
(800) 361-6141 **Toll-free**  
TWX (610) 421-4608  
**Office Hours**  
9:00 - 5:00

chemists helping chemists in research & industry

**aldrich chemical co.**

