

FILE DESCRIPTION  
PHILADELPHIA FILE

SUBJECT Harry Gold

FILE NO. 65-4307

VOLUME NO. Bulky  
Exhibit

SERIALS 1-B-13

PART A

## NOTICE

**THE BEST COPIES OBTAINABLE ARE INCLUDED IN THE REPRODUCTION OF THE FILE. PAGES INCLUDED THAT ARE BLURRED, LIGHT OR OTHERWISE DIFFICULT TO READ ARE THE RESULT OF THE CONDITION AND OR COLOR OF THE ORIGINALS PROVIDED. THESE ARE THE BEST COPIES AVAILABLE.**

File No: 65-4307Re: HARRY GoldDate: 4-78

(month/year)

Serial	Date	Description (Type of communication, to, from)	No. of Pages		Exemptions used or, to whom referred (Identify statute if (b)(3) cited)
			Actual	Released	
—	6-6-50	Bulky Exhibit - FD-141	1	1	
Enclosure 12A	—	Cover Sheet	1	1	
	7-10-50	LA to SAC Phil Memos	1	1	
	6-6-50	Folder containing handwritten documents of Harry Gold	142	142	
12B	—	Cover Sheet	1	1	
	7-10-50	LA to SAC Phil Memos	1	1	
	6-6-50	Folder containing handwritten notes of Harry Gold	98	98	some pgs. both sides
12C	—	Cover Sheet	1	1	
	6-6-50	Folder with notes, etc. of Harry Gold	161	161	some pgs both sides
12D	—	Cover Sheet	1	1	
	7-10-50	LA to SAC Phil Memos	5	5	
	6-6-50	Folder w/ documents	40	40	some pgs. both sides

File No: 65-4307Re: HARRY GOLDDate: 4-78

(month/year)

Serial	Date	Description (Type of communication, to, from)	No. of Pages		Exemptions used or, to whom referred (Identify statute if (b)(3) cited)
			Actual	Released	
12E	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes of Harry Gold	38	38	
12F	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes of Harry Gold	1	1	
12G	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes of Harry Gold	39	39	
12H	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes & documents of Harry Gold	7	7	
12I	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes & documents of Harry Gold	68	68	some pgs. both sides
12J	-	Cover Sheet	1	1	
	6-6-50	Folder containing notes of Harry Gold	76	76	

*Entire Exhibit  
subject "is a" as indicated  
to be returned by  
29 January  
(returned 11-21-50)*

BULKY EXHIBIT

Date received 6-6-50

HARRY GOLD

ESP R

(Title of case)

*Return  
11/15/50  
Return  
11/27/50*

*Crystall*

Submitted by Special Agent Fred C. Birkby

Source from which obtained Search of Subject's residence

Address 6823 Kindred St., Phila.

Purpose for which acquired Aid in investigation--evidence

Location of bulky exhibit Exhibit Room

Estimated date of disposition 12-1-50

Ultimate disposition to be made of exhibit to be determined

65-4307-1-B-13

SEARCHED	INDEXED
SERIALIZED	FILED
NOV 21 1951	
FBI - PHILA.	

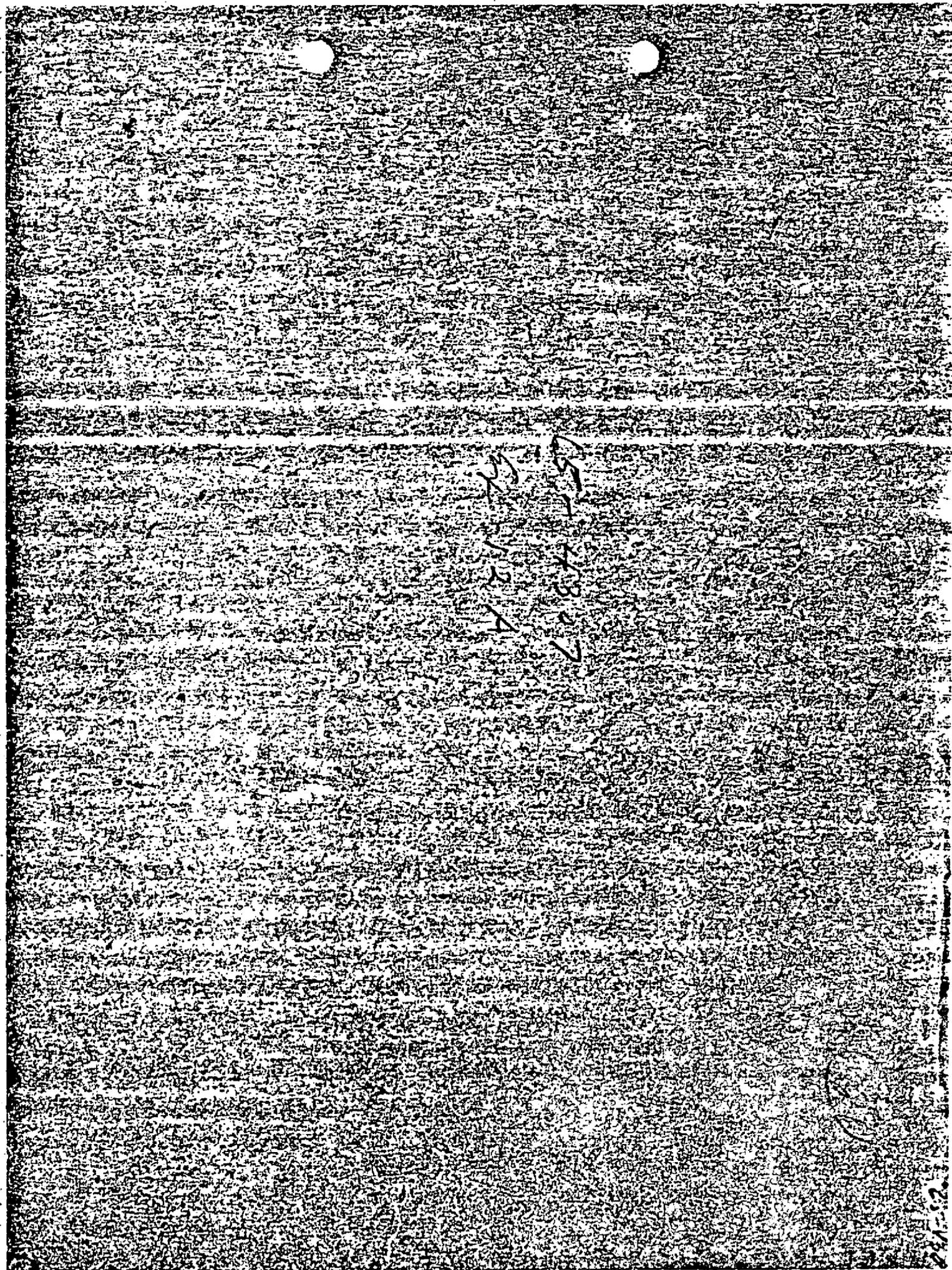
*DB*

List of contents:

1. 21 manila folders numbered 12A thru 12U inclusive containing misc papers found on fourth shelf of wooden cabinet in basement.
2. 140 misc sheets of paper handwritten from fourth shelf of wooden cabinet in basement.
3. One envelope addressed to subject postmarked June 2, 48 at Phila from Morrell E. Dougherty 6617 Litchfield St. Phila 43, Pa. containing one sheet of paper signed Doc Budge Composition Book containing chemical formulas.
4. Photostat of US Patent Office document #2,050,901.
5. Photostat of US Patent Office document #2,359,212.
6. Federal Standard Stock Catalogue L-P-406a Jan 24, 1944.
7. One 21 page "Memorandum for the preparation of Thioglycolic Acid Patent Papers" enclosed in brown envelope.
8. One brown envelope bearing return address "The Girdler Corp., Louisville, Ky. containing 13 misc papers.
9. Manila folder containing six misc sheets of paper.
10. 47 sheets of loose leaf paper containing seven punch holes and bearing penciled notations. Found on first shelf of wooden cabinet.
11. 20 3x5 index cards. Found on second shelf of Wood cabinet.
12. Slip of paper containing name of James A. Devlin. Found on 2nd shelf of wooden cabinet in basement at 6823 Kindred St.
13. Investigative notes of SA Burgess re search of Gold's home on above date.

*Return  
11/17/50  
Return  
11/15/50*

*Part A = 1. 12A thru 12J*



SAC, Philadelphia

7/10/50

SA T. SCOTT MILLER, JR.

HARRY GOLD, was.  
ESPIONAGE - R

EXHIBIT 65-4307-1B-13 (1) (Exhibit 12A)

On 6/22/50, GOLD examined this material and stated that all of it was in his handwriting and consisted of material he was gathering when he was considering seeking new employment in about March 1947, when his mother was pressing him to leave BROTHMAN. Much of this material was in connection with obtaining a Civil Service grade, which he did. GOLD said that this material also contained rough drafts of letters he wrote after he left BROTHMAN, seeking employment by answering want ads in newspapers.

Relative to the application for federal employment forms, of which there were several which were partially filled out, GOLD stated that he filled out a number of them but was not pleased with the manner in which his experience had been explained, and this accounts for the forms he has which apparently had been filled out but never handed in.

TSM:HKF  
65-4307

682 Kindred Street,  
Philadelphia 24, Pa  
August 15, 1948.

Box H-148, Inquirer.

Dear Sir:

This letter is in answer to your advertisement in the Philadelphia Inquirer of Sunday, August 15, 1948; the position is that of a chemist for research and development in the pharmaceutical industry.

I am thirty seven years of age, am single, and have had a total of nineteen years of experience and education in the fields of chemistry and chemical engineering. The job specifications require a very definite combination of training, practical background and ability which I am certain that I possess.

For the past two years I have been employed as the chemist in charge of the laboratory for the firm of A. Brothman and Associates, a chemical process development and engineering organization in New York City; During a seventeen-year

6823 Kindred Ave

Philadelphia 24,

August 8, 1948

M-52, P.O. Box 3495,  
Philadelphia 24, Pa.

Dear Sir:

This letter is in answer to your advertisement in the Philadelphia Inquirer on Sunday, August 8, 1948, the position is that of a product development man in the pharmaceutical industry.

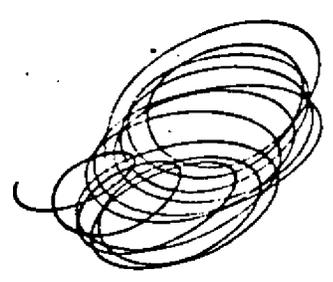
I am thirty seven years of age, a single, and have had a total of nine years of experience and education in the fields of chemistry and chemical engineering. The job specifications require a combination

of training, practical background and ability which I am certain that I possess.

For the past two years I have been employed as the chemist in charge of a laboratory for the firm of A. Mottman and Associates, a chemical process development and engineering organization in New York City. During a seventeen-year

is given in an article titled "new Process  
for acrylic Greening" which appeared in  
chemical Engineering, April 1947, p. 10  
to 106; my name is noted in the credit  
at the end of the paper.

~~~~~  
~~~~~  
~~~~~  
~~~~~

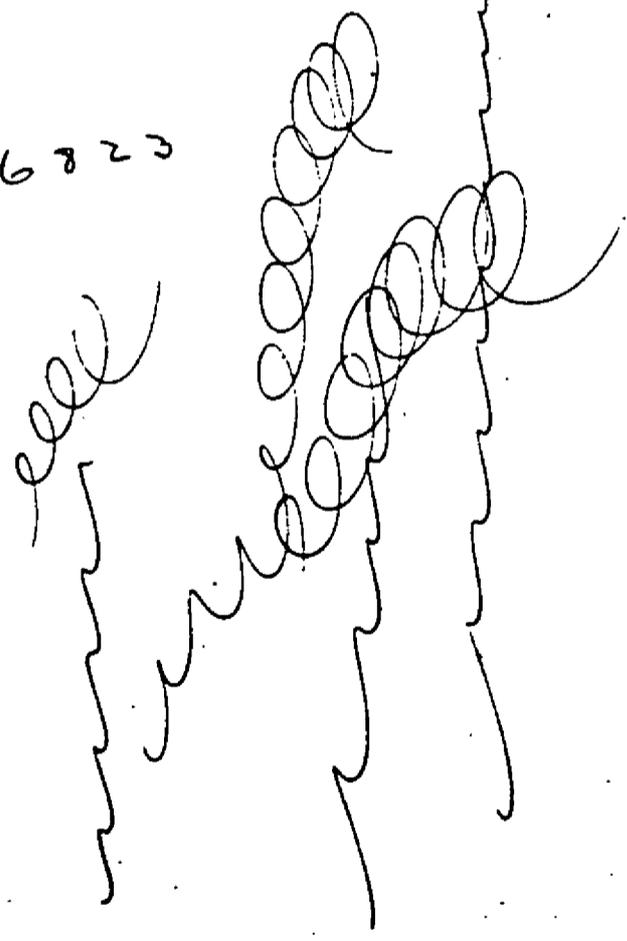


In accordance with your instruction  
~~has~~ I enclose the completed application form  
~~in~~ ~~with~~ ~~to~~ ~~my~~ ~~work~~ ~~of~~ ~~organic~~ ~~chemist~~.  
~~also~~ There is also included a more detailed  
complete ~~record~~ account of my professional  
experience and ~~educational~~ <sup>former collegiate training</sup> ~~background~~  
than was possible on the ~~form~~ application  
attached ~~and~~ ~~is~~ ~~attached~~.

~~I~~ ~~thank~~ ~~you~~ I ~~will~~ Thank you for any  
~~thank~~ ~~you~~ consideration you may show me.

Very truly yours,  
Harry Gold.

6823

A large, complex handwritten scribble or signature, possibly consisting of multiple overlapping loops and lines, extending from the signature area down towards the bottom of the page.



for the Pennsylvania Sugar Company and its subsidiaries in jobs beginning with routine laboratory assistant and ending as a research chemist. Below is given an outline of my professional experience and formal collegiate studies.

### Experience

I. Firm Penna. Sugar Co. and Subsidiaries  
period January 1929 to February 1944

I worked for the above firm for a seventeen year period interrupted only by two leaves-of-absence to go to school

1. Period January 1929 to September 1931  
and  
March 1932 to



Continuation sheet 1

### Experience

I. Firm Penna Sugar Co. (and Subsidiaries)

Period Jan. 1929 to Feb. 1946

Year.

I worked for the Penna Sugar Co & its subsidiaries for a 17 year period with two leaves of absence to go to ~~collect~~ <sup>obtain</sup> formal college training in chemistry.

Below is given a detailed account <sup>and</sup> as far as possible on the application form.

1. Period Jan. 1929 to Feb. 1933

and  
Mar. 1933 to

~~the~~

Job Routine analytical work in Sugar Refinery

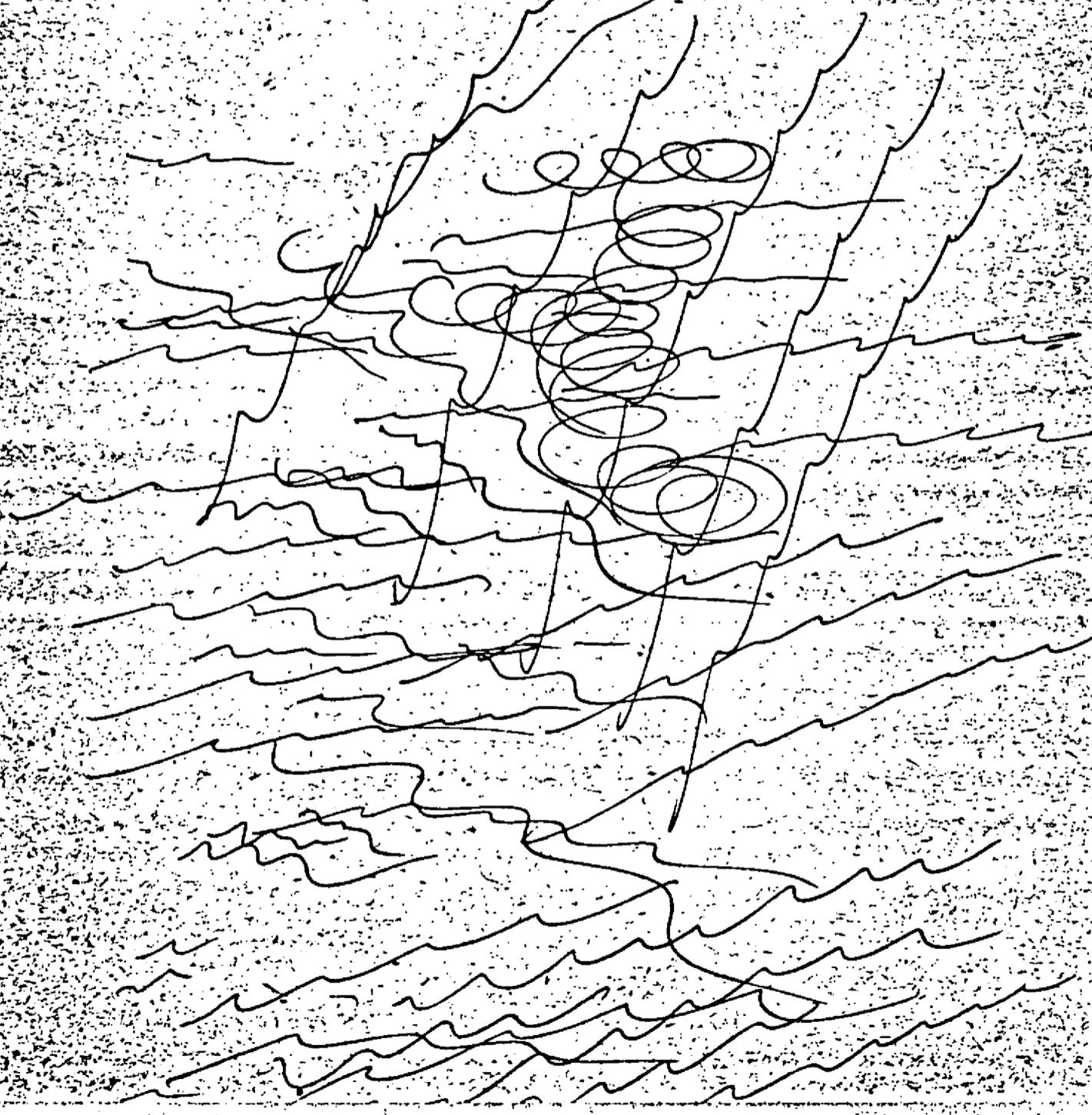
~~Supervisor~~

Supervisor Dr. Gustave T. Reich, Director of Research

Description of work - ~~that~~ <sup>there</sup> was involved ~~the~~ <sup>the</sup> control of all of the steps of the refining process as well as the



recover the  $\text{CO}_2$  from flue gas (for sub-  
sequent manufacture into its solid form  
Dry Ice); this carbon dioxide would be  
supplement the off-seasonal supply of  
 $\text{CO}_2$  as obtained from the molasses-  
fermentation operated by



Harry Gold

6823 Kindred St., Phila. 24, Pa.

Born Dec. 12, 1910

Chemist, O.G.

Item 13. Education  
(continued from Form 57)

As can be seen from the answers to items 16 and 18, my schooling was interrupted twice by the necessity of going to work. As a result, both for review purposes and due to roster difficulties, I repeated courses in:

Quantitative Analysis

Organic Chemistry

Physical Chemistry

Analytic Geometry

Differential and Integral Calculus

though I had previously had satisfactory grades. I have not credited myself with additional semester hours for these courses.

In addition I also took courses in the following subjects of a graduate level:

Advanced Organic Chemistry

Qualitative Organic Analysis

Inorganic Preparations

Theory of Equations

note 1. I graduated *Summa Cum Laude* from Xavier University.

2. The semester hours credited for my major subjects are accurate, but the totals for the school may be slightly off due to the fact that I have not all the records available.

## Description of Work -

The job entailed doing assay work for factors of the vitamin B complex; the material which was used was a high-vitamin feed yeast which was recovered from the fermentation process in the distiller. This required the use of a novel bacteriological technique which had then only recently been developed to replace the more costly and time-consuming animal assay methods (the new technique is known as the shell-strength method). In this work, another man, Morrell C. Dougherty, and I operated as a team; we even set up the laboratory which was needed. The following points <sup>are pertinent</sup> ~~may also be of interest~~

a. The factors of the B complex for which values were obtained were:

B<sub>2</sub> (Riboflavin)  
Pantothenic acid  
Niacin

Continuation sheet 5

B<sub>1</sub> (Thiamin) was assayed for by the yeast-growth method Schultzy, Atkin and Frey.

b. Considerable work was done on the development of special culture suitable for increasing the Riboflavin, Niacin and Pantothenic acid content of the recovered by product yeast. This research was successful and resulted in feed values 200 to 300% in excess of what they had previously been.

c. Some original investigations were completed on assay methods for Biotin and Folic acid as present feed yeast; these factors of the B complex had then only recently been discovered.

4. Period April 1943 to February 1946

Job Chemist

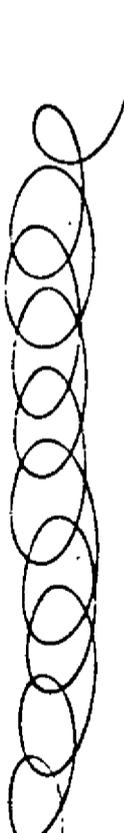
Superiors Mr. Nemesis Alvaré, General manager of Distillery  
Mr. John P. Manley, General

6  
Description of work -

Here again, Mr. Dougherty and I worked together on an equal basis; the divisions of the company were served, distillery and the sugar refinery. our duties included:

1. For the Distillery

a - complete responsibility for all fermentation work carried out in the alcohol plant - from the laboratory cultures, through the yeast culture machines, and to the fermentation in the plant on a 270,000 gallon per day scale.

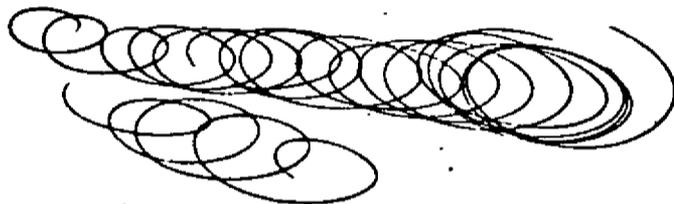


4. Period

4. Period

the distillery and then instituted  
a rigid program of sanitation  
we were able to increase the  
yield of alcohol from 65%.

(3) Conducting experimental work aimed at bettering the yield of alcohol. our program was two fold: one, we designed and had installed an improved type of yeast culture machine



refinery represented a considerable saving over the use of city water but it was absolutely essential that we knew that we were not exceeding the allowable limits for contaminating or

continuation sheet 11

continuation sheet 11

continuation sheet 11

*[Large handwritten scribbles and illegible text covering the lower half of the page]*

swelling of cans and in the product  
of "off" odors. We undertook a search  
for the sources of these "flat sour"  
and "sulfide stinker" bacteria and  
then laid out a program, which  
when set up in the plant

---

Film A. Rothman and Associates

Period May 1946 to June 1948

for Chief Chemist

*[Handwritten signature]*

Description of Work —

The above named company is a chemical process development and engineering organization. During my stay in charge of the laboratory, the following projects were worked on and successfully completed:

1. A novel process for the production of methyl methacrylate monomer (the unpolymersized form of Lucite) from acetone and acetylene as starting materials, as compared with the normal route via aceto and hydrocyanic acid. The acetone acetylene synthesis avoids the hazard of working with HCN and the equally dangerous acetone cyanohydrin. This project was developed.

*[Handwritten signature]*

( 0 )  
⑫  
3. The working out of a method for the manufacture of a high-test calcium hypochlorite bleach (75%+, available chlorine) and designed for the use of a chemical firm in India. This process avoids the use of sodium hydroxide and involves the formation of an alkyl hypochlorite in the presence of calcium carbonate. The company in question operates extensive caustic soda-chlorine cell installations; caustic soda is extremely valuable and used in India's vast textile industry whereas the chlorine is to them not only a waste material, but its disposal is difficult. A high-test bleach is also a desired commodity, but a process was developed

consumed none of the previous material

Continuation sheet 12

4. The working out of <sup>0</sup> method for the production of a high-test calcium hypochlorite bleach (75% plus avo

~~Sept~~

my mother died in September of 1947 and since

<sup>work</sup> the heavy schedule at A. Brothman and associates entailed my ~~working~~ <sup>slaying</sup> in New York not only during the week but also on Saturdays and Sundays.

When my mother died in September 1947 my father was left alone here Philadelphia with only my brother's care for him. We have always been very closely-knit family and it is to carry my share that I left just two weeks ~~past~~ <sup>the past few</sup> months.

In addition there have ~~been~~ <sup>been</sup> ~~serious~~ <sup>serious</sup> disagreements brought about a ~~very~~ serious disagreement regarding basic policy between Mr. Brothman and myself which made my departure ~~desirable~~ <sup>necessary</sup>.

(14)  
227 Krauss Avenue  
Philadelphia 27, Pa.

#### Reason for leaving -

The heavy work schedule at A. Brothman and Associates entailed my staying in New York not only during the week but also on Saturdays and Sundays. After my mother died in September, 1947, my father was left alone in Philadelphia with only my brother's care for him; it was to carry my share that I left New York just the past June.

In addition there arose a serious disagreement concerning basic policy between Mr. Brothman and myself, and which made my departure desirable.

#### Education

As can be seen from the data given under "Experience", my schooling was twice broken up by the necessity of

difficulties, I repeated courses at the three schools which I attended:

University of Pennsylvania, 1930 - 1932

Swiss Institute Evening School

diatomic

The schools attended were:

University of Pennsylvania

~~1930-1932~~

October 1930 to March 1932

course in chemistry

2. Swiss Institute

February 1934 to June 1936

course in

received in diploma in

3.

The schools

schools attended were

The work here was strictly routine & required only an ability to ~~work~~ work rapidly and accurately. ~~However, in~~  
 It should be noted, however, that in addition to involving the use of the normal analytical skills ~~of the~~ <sup>employed</sup> ~~staff~~ <sup>such</sup> ~~as~~ instruments as the polarimeter, refractometer, colorimeter (Du Ross) ~~viscometer & gas~~ ~~analysis apparatus~~ also, the raw ~~material~~ <sup>samples</sup> analyses were subject to a continual check by two outside laboratories, a procedure which required careful & precise work.

2. period July 1936 to August 1938

for ~~development~~ Pilot Plant Development work on a process for the recovery of CO<sub>2</sub> from flue gas.

Supervisor Dr. H. T. Riche

Description of work <sup>the purpose of the</sup> ~~the~~ <sup>was to recover</sup> ~~the~~ <sup>CO<sub>2</sub> from</sup> ~~the~~ <sup>flue gas</sup> (and also for making ~~the~~ <sup>dry</sup> ~~ice~~ <sup>ice</sup> ~~from~~ <sup>the</sup> ~~CO<sub>2</sub>~~ <sup>CO<sub>2</sub></sup> ~~the~~ <sup>supplement</sup> ~~the~~ <sup>of</sup> ~~the~~ <sup>national supply</sup> ~~of~~ <sup>of</sup> ~~CO<sub>2</sub> from~~ <sup>the</sup> ~~the~~ <sup>flue</sup> ~~gas~~ <sup>gas</sup> ~~the~~ <sup>plants</sup> ~~by~~ <sup>the</sup> ~~distillation~~ <sup>and</sup> ~~and~~ <sup>be</sup> ~~carrying~~ <sup>out</sup> ~~the~~

Conducting  
d. ~~Carrying out~~ <sup>Performance</sup> of Trial Runs & material  
solvents  
writing of Reports covering all phases of  
the project.

3. period July 1940 to March 1943

for microbiological Vitamin assays for  
Factors of the B Complex

Supervisor Dr. D.T. Rice

Work done

work

series of work — The job entailed the  
carrying out of the ~~microbiological vitamin~~  
assays on the high vitamin  
fed-yeast which was recovered from  
fermentation process. This involved  
the use of a novel bacteriological technique  
which had only been developed ~~to~~  
to produce and control the <sup>in the articles</sup> ~~assay~~ methods  
included the setting up of the lab for  
carrying out the work  
The ~~factor~~ <sup>the</sup> B<sub>12</sub> complex factors  
which were evaluated were

B<sub>12</sub> (Riboflavin)  
Pantothenic acid

~~the~~ (C) (W) (O)  
B<sub>1</sub> (Thiamin) was assayed for the  
de yeast growth method of Schultz, ~~and~~  
& Frey.

b. Further considerable work was done  
on the development of special cultures suited  
for increasing the riboflavin & ~~panthoic~~  
Nicotin & Panthoic acid values of  
the ~~the~~ recorded h. product yeast. This  
research was successful in obtaining  
~~total~~ <sup>feed</sup> values 100 and 200% in excess  
of what they had previously been.

c. ~~also~~ <sup>some</sup> ~~work~~ <sup>the</sup> original work was done  
on assay methods for B<sub>12</sub>, Folic  
acid contents of

4. period April 1945 to ~~and~~ Feb. 1946.

for ~~the~~ chemist & supervisor of Tech  
control  
Invision Mr. Dennis Adams (distiller)  
Mr. John P. Manley (refinery)  
and ~~man~~

Resumption of work - the work was divided  
into two categories, ~~the~~ ~~the~~ for the

I the distiller  
II the refinery

9. ~~THE~~ FOR THE DISTILLERY

0

- (1) Complete responsibility for all fermenter  
trian work carried out in the distillery  
from the laboratory cultures through  
~~(2) ~~the~~~~  
the yeast making cultures worked to  
the <sup>plant</sup> fermentation on a  
of 5,000 gallon ~~scale~~  
x 7000 / day scale.
- (2) Control & analysis of all raw material  
(molasses & grain) & all ~~by-prod.~~  
finished products & by-products  
(~~or dry~~ but a feed yeast).
- (3) carrying out of small work ~~and~~  
better, the yield of alcohol

b- FOR THE REFINERY

- (1) The setting up of a laboratory & the  
training of personnel for the carrying  
out of B coli tests on raw river water  
and one of the water after purification  
in the refinery, resulted a considerable  
saving over the use of city water but  
it was absolutely essential that we knew
- (2) The work on canners' spoilage matter  
was undertaken to eliminate there the  
microorganisms from refined sugar  
the canning process  
their presence above certain limits

of off odor. We undertook a program for determining the source of these "flat-rous" bacteria and ~~developed~~ <sup>worked out a</sup> ~~land~~ program which when carried out on the plant resulted in the complete elimination of ~~these~~ this trouble.

II. Firm A. Brothers & associates

period May 1946 to June 1948

job Chief chemist

Description of work - The above firm was a ~~new~~ process development organization. During my stay as chief chemist the following projects were worked on and successfully <sup>completed</sup> ~~developed~~:

- a. ~~As part of a fulfillment~~ <sup>now</sup> a process for the production of methyl meth from acetone & acetylene as compared with the normal route via acetone &  $\text{CO}$ . The acetone-acetylene reaction is considerably ~~more~~ economical and in addition avoids the hazards of working with hydrocyanic acid. (over)

reaction of form compounds such as malic anhydride, lactic acid (100%), Propyl alcohol & Mentadine.

d. The development of a process for the production of a high test calcium hypochlorite bleach (75% available Cl) for the use of a chemical firm in India. This process avoids the use of ~~the caustic~~ sodium hydroxide & ~~it~~ involves the use of calcium carbonate and an alkali superoxide.

This firm ~~manufactures~~ caustic soda, etc. ~~the caustic soda is either~~ valuable would in India's vast textile industry, ~~but~~ <sup>whereas</sup> the chlorine is not only a waste material but difficult to dispose of. ~~Therefore, the~~ <sup>caustic soda</sup> is also desired commodity but ~~the~~ the matter to ~~be~~ desired a process which need none of the valuable caustic soda.

e. The development of a process for the production of acetone from acetone & steam. While such a process would <sup>be</sup> economical in this country where acetone & ethyl alcohol are produced in a small plant, still it was peculiarly suited to a

68

6823 Kindred Street  
Philadelphia 24,  
August 8, 1944

M. J. Z., P. O. Box 3495  
Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your advertisement for a ~~product development man~~ <sup>which</sup> ~~appeared~~ <sup>appeared</sup> in the Inquirer of ~~and~~ ~~subject~~; the <sup>job</sup> position is that of a product development ~~man~~ in the pharmaceutical industry.

I am thirty seven years of age, a single and have had a total of nineteen years of experience and education in the fields of chemistry and clinic engineering. ~~Some~~ <sup>The</sup> ~~job~~ <sup>specific</sup> ~~requirements~~ <sup>requirements</sup> require a

6823 Kindred Street  
Philadelphia 24, Pa

August 9, 1944

This letter is in  
Phil Philadelphia  
24, Pa

M. J. Z., P. O. Box 3495

as part fulfillment of a contract  
with "The Commission on Aero-  
nautical Affairs of the Republic  
of China" and is described in  
some detail

by the necessity of earning a living.

I am certain that I can handle your job competently. I would require a minimum salary of        dollars a week. May I have an interview?

Very truly yours,

Harry Gold.

Mr. B. Bright

Dear Mr. Bright:

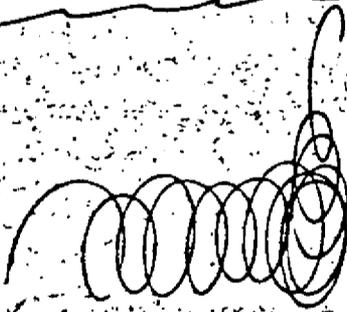
In ~~the~~ my interview on Monday August 2, 1948 I stated that I had ~~done~~ done no work in the catalytic field of catalytic reactions. This is in error as part of our work for the Chinese mission included a ~~part~~ the demonstration of a process for the manufacture of <sup>acetone</sup> ~~acetylal~~ from acetylene. The background on this is:

1. We <sup>aspir</sup> tried to duplicate the Canadian ~~work~~ Russian work with nickel iron and vanadium oxides; the yields were very poor.

(b) Carrying on of experimental work  
aimed at bettering the yield of  
alcohol, particularly from grain.  
Our program was twofold: one,  
we designed and had erected an

(alcohol, dry ice and feed yeast)

(b) Carrying on of experimental work  
aimed at bettering the yield of



Address.

0

Firm A. Brothman and Associates

Period May 1946 to June 1948

Job Chief Chemist

Resumé

Description of Work

The above named company is a chemical process development and engineering organization. During my stay in charge of the laboratory, the following projects were worked on and successfully completed:

a novel process for the production of methyl methacrylate monomer (the raw material for "Lucite") from acetone and acetylene as the starting compounds as compared with the normal route via acetone and acetylene.

6823 Kindred Street

6823 Kindred Street,

6823 Kindred

6823 Kind

Box B-358 Inquirer

*[Handwritten scribble]*

Dear Sir: Box B-358 Inquirer

Resume of Experience and Education

I am writing

Friday August 15, 1948.

*[Large circular scribble]*

I am *[scribble]*, an *[scribble]*  
*[scribble]* and my  
familiarity with a wide variety of  
analytical instruments;

*[Handwritten scribble]*

5 years of routine analytical work  
in *[scribble]* a sugar refinery  
and *[scribble]*

6-6-50  
200

For the past two years I have been employed  
as chief chemist for the firm of A. Nathan  
& Associates of New York City, a ~~the~~ chemical  
research development organization. For ~~the~~<sup>the</sup> ~~past~~<sup>past</sup> ~~year~~<sup>17</sup>  
~~for a 17 year period~~ <sup>at various</sup> previous I  
have worked for the Penna Sugar Co & its  
subsidiaries in jobs beginning with routine  
lab ~~to~~ ~~work~~ & ending as Research chemist  
responsible <sup>for</sup> ~~an~~ ~~outlet~~ ~~of~~ ~~my~~ ~~previous~~  
professional experience & ~~educational~~ ~~background~~

*[The following text is heavily obscured by dense, illegible scribbles and is therefore not transcribed.]*

6-6-50  
870

Firm  
Phena Sugar Co

17 years

17 years

Hennrich

2 years

Harry Gold

I Firm

II period

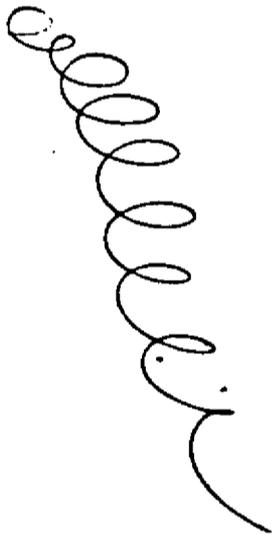
The above named firm is a chemical process development organization. During my stay as chief chemist

Reunov Products and Chemicals Corp

Dear Dr. [unclear]

I enclosed the completed application form which you had not  
my delay in answering is due

we know that we will not exceed  
any of the allowable limits

A handwritten scribble or signature consisting of several overlapping, wavy lines.A handwritten scribble or signature consisting of a series of connected, oval-shaped loops.

Education

as can be seen from the answers on the application form, my schooling was broken up twice by the necessity of earning a living. as a result, both for review purposes and due to roster diffi-

period (Mar 1946 to Jun 1948)

Job Chief Chemist

Description of Work -

The above named company is a chemical process development and engineering organization. During my stay in charge of the laboratory, the following projects were worked on and successfully completed:

1. a novel process for the production of methyl methacrylate monomer (the unpolymerized form of Lucite) from acetone and acetylene as the starting materials, as compared with the normal route via acetone and hydrocyanic acid. The acetone-acetylene synthesis avoids the great hazards of working with HCN and the equally dangerous acetone cyanohydrin. This process

Experience

Resumé

~~Section~~

Period Jan. 1929 To Feb. 1946.

Firm Penna Sugar Co. and Subsidiaries

Description of work -

I Routine Analytical

period

This work involved ~~the~~ <sup>analysis</sup> ~~of~~ <sup>of</sup> all raw materials (sugar, molasses, ~~and~~ <sup>the</sup> control of ~~analysis~~ <sup>analysis</sup> of ~~the~~ <sup>the</sup> control of all of the ~~steps~~ <sup>steps</sup> of the refining process.

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

~~50~~ ~~50~~ 50  
50  
1000

① Experience  
Experience



period previous, I worked for the Pennsylvania

following date is returned

Continuation sheet 5

- b. (Thiamin) was assayed for by the yeast-growth method of Schultz, Athin and Frey.
- b. Considerable work was done on the development of special cultures suitable for increasing the Riboflavin, Niacin and Pantothenic acid content of the recovered by-product yeast. This research was successful and resulted in feed values 200 to 300% in excess of what they had previously been.
- c. Some original investigations were completed on assay methods for Biotin and Folic Acid as present in feed yeast; these factors of the B complex had then only recently been discovered.
- d. The above work was carried out by

(Tryptamine) was assayed for  
 by the yeast-growth method  
 Schults, Atkin and Frey.  
 Considerable work was done on the  
 development of special cultures suit-  
 able for increasing the Riboflavin,  
 Nicotin and Pantothenic acid content  
 of the fermented by-product yeast.  
 This research was successful and  
 resulted in a yield value of 200 to 300%  
 increase of the above mentioned pre-

amount of yeast to aid in carrying out the fermentation process.

This research was successful and resulted in a yield value of 200 to 300% increase of the above mentioned products.

as is noted under  
 Two divisions of the Penna Sugar  
 Company the Distillery and the Sugar  
 Refinery Here again Mr. Dougherty and  
 Folio

below is a summary of my technical back-  
ground & ~~now the~~ <sup>now the</sup> ~~had no~~ <sup>had no</sup> ~~deep~~ <sup>deep</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~field~~ <sup>field</sup> ~~but~~ <sup>but</sup> ~~it~~ <sup>it</sup> ~~is~~ <sup>is</sup>  
~~my belief that I can readily adapt myself to~~  
~~particularly because of my solid background in~~  
~~analytical work & ~~the pilot plant~~ ~~work.~~~~  
~~in a variety of fields~~

6823 Kindred Street  
August 8, 1948

B.O. Box 5414

Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your

This letter is in answer to your

This letter is in answer to your adver-

tisement for a product development man in

the pharmaceutical the Philadelphia In-

quirer of Sunday, August 8, 1948.

I am thirty seven years of age, am

6825 Kindred Street,

Philadelphia 24, Pa.

August 8, 1948.

M-32, P.O. Box 3495

Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your advertisement which appeared in the Philadelphia Inquirer of Sunday, August 1, 1948, the position is that of a product development man in the pharmaceutical industry.

I am thirty seven years of age, am single, and have had a total of nineteen years of experience and education in the fields of chemistry and chemical engineering. The job specifications require a definite combination of training, practical background and ability which I am certain that I possess.

For the past two years, I have been employed, as the chemist in charge of the laboratory for the firm of A. Brothman and Associates, a chemical process development and industrial organization in

work with mixed iron and vanadium oxides; the yields were very poor, on the order of 8 to 10%.

2. Next, the Canadian (Shawinigan) process, using  $V_2O_5$  alone, was attempted. Here the yields were somewhat higher, in the neighborhood of 20%, but a great deal of carbonization resulted, and this in turn coated the catalyst.

3. Through the modification of some German work described in an O.T.S. report, and using  $ZnO$  pellets in the reactor tube, excellent yields of 92% were obtained. We based our changes in the process by recognizing that the mechanism of this reaction is not too far different from that developed by us to explain the role of  $KOH$  in the carbonyl-acetylene group of reactions.

Just one more note, and I trust this is not out of place. It is a pleasure to speak to someone in technical placement work who has a good knowledge of chemistry and chemical engineering.

Very truly yours,

6803 Kindred Street,  
Philadelphia 24, Pa

July 28, 1948.

P-336 Inquirer

Dear Sir:

This letter is in answer to your advertisement for a chemist in the Philadelphia Inquirer of July 28, 1948.

I am thirty seven years of age, am single, and have had a total of nineteen years of experience and education in the field of chemistry. My technical background has included:

5 years of routine analytical work  
in both the

laboratory worker and ending as a research chemist. Below is given an outline of my professional experience and formal collegiate studies.

### Experience

Firm A. Brothman and Associates  
Period May 1946 to June 1948

Mr. J. Hathaway

Dear Mr. Hathaway:

~~Enclosed~~ on the attached sheet is the recent photograph which I mentioned in my letter ~~but omitted~~ - ~~not to be~~ ~~be~~ ~~omitted~~ on ~~which~~ I omitted this page from my resume.

Very truly yours,  
Harry Gold.



Harry Gold

6823 Kindred St., Phila 24, Pa

Born Dec. 32, 1910

Cement, Pa

Item 16: Experience

May, 1946 to Present

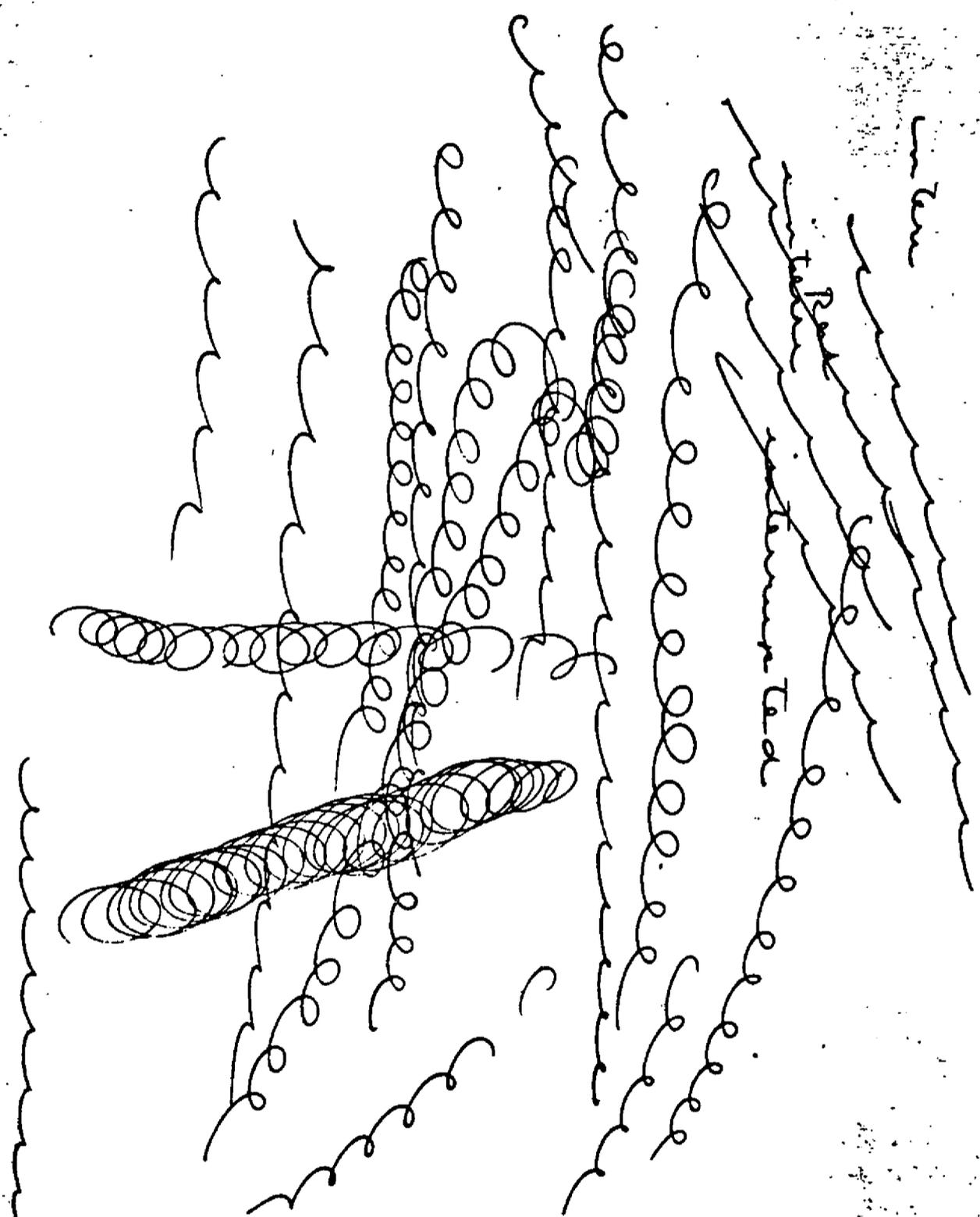
- The improved methyl methacrylate monomer synthesis involves a novel method which eliminates the use of HCN and which is far more economical. An article describing some of the details of the process has just been published in the April, 1947, issue of "Chemical Engineering". It is by the assistant editor of that journal and is entitled a new process

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~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

Harry Gold

5  
concentration level 5  
D. F. ...  
Penna. Sugar Co. and it  
subsidized



in line

Peak

to the top

6823 Kindred Street,

Philadelphia 24, Pa.

August 7, 1948.

Mr. B. Bright,  
Atlantic Refining Co.,  
Personnel Department,  
3144 Passyunk Ave.,  
Philadelphia, Pa.

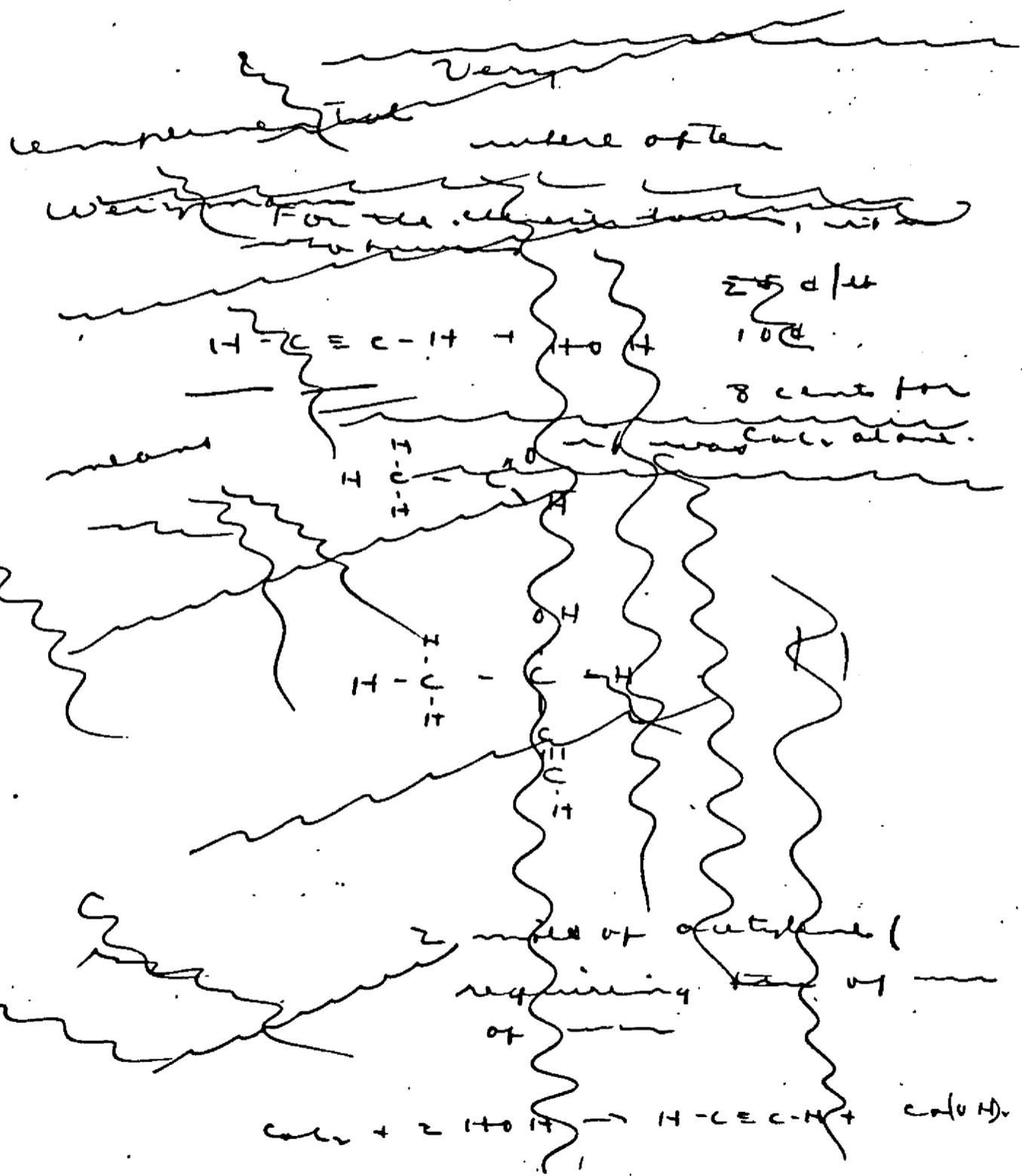
Dear Mr. Bright:

In the interview on Monday, August 2, 1948, I stated that I had done no work in the field of catalytic reactions (with the possible exception involving the use of KOH in the acetone-acetylene synthesis to form an acetylenic alcohol or glycol). This is in error as part of our <sup>work</sup>

~~work was done in the field of catalytic reactions involving the use of KOH in the acetone-acetylene synthesis to form an acetylenic alcohol or glycol.~~

oxides; the yields were very poor, on the order of 8 to 10% of theoretical.

2. next, the Canadian (Shawinigan) process, using  $V_2O_5$  alone, was attempted. Here the yields were somewhat higher.



created a condition which made it  
necessary for me to leave New York  
— my father was left all alone  
in our home here and it was to  
be able to be with him that I de-  
cided to return to Philadelphia.

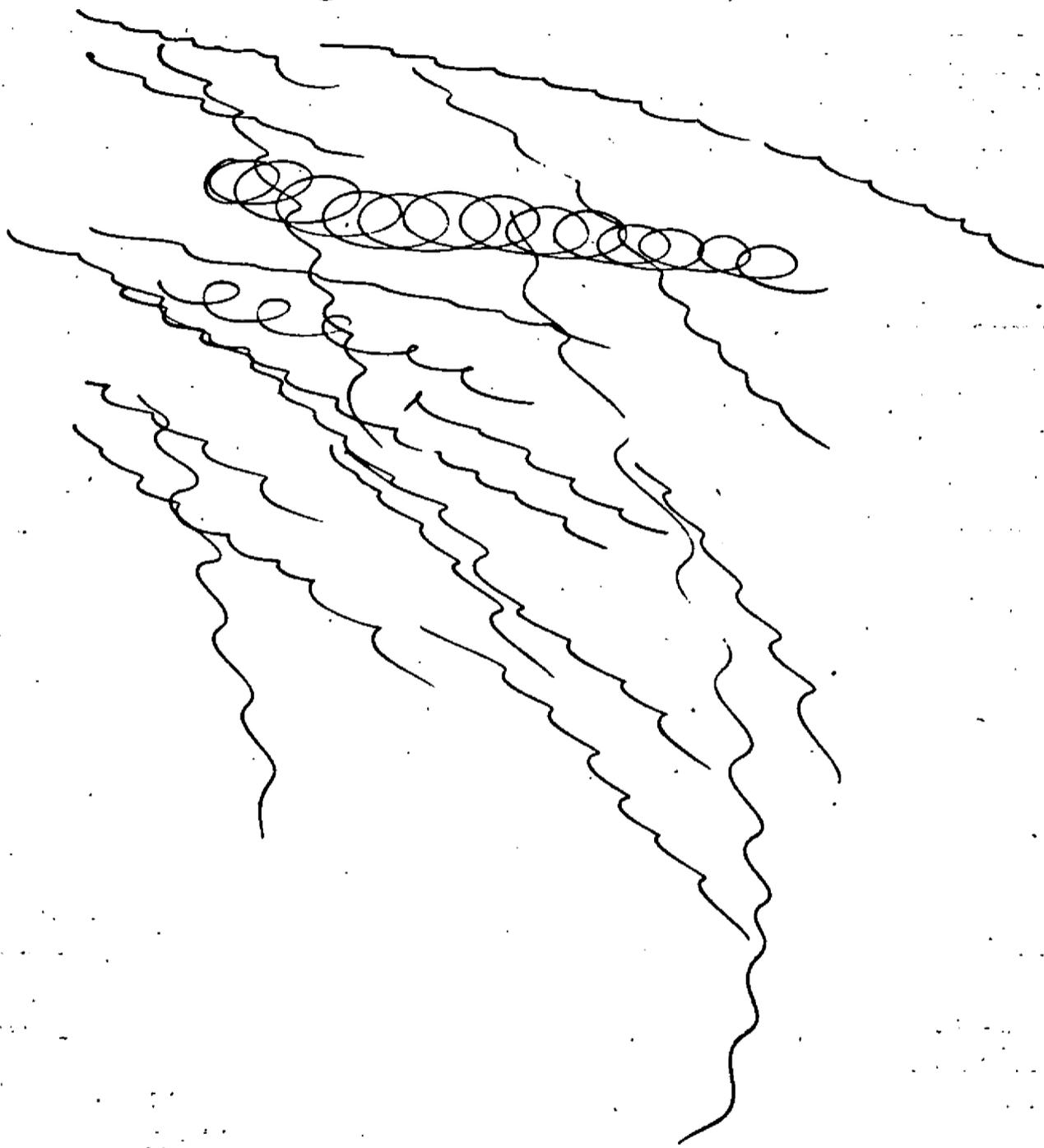
may I have an interview?

Very truly yours,

Harry

This period may be divided thus:

- a. Five years of routine control work in the sugar refinery. The duties here were strictly



6823 Kindred Street

P. Philadelphia 24, Pa

August 6, 1948

at B-359 Inquirer

Dear Sir:

This letter is in answer to your advertisement for a chemist in the Philadelphia Inquirer of Friday, August 6, 1948

I am thirty seven years of age, am single, and have had a total of fourteen years of experience in the field of chemistry. None of this previous work has been in the paint and protective coatings +

~~clearly~~

6823 Kindred Street

Philadelphia 24, Pa

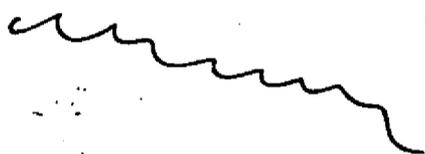
August 6, 1948

Box B-359, Inquirer.

Dear Sir:

This letter is in answer to your advertisement for a chemist in the Philadelphia Inquirer of Friday, August 6, 1948.

None of



completed the following:

- (1) The setting up of a laboratory and the training of personnel for carrying out B. coli tests on Raw River Water.
- (2) The successful completion of a program for the determination of the source "canners' spoilage bacteria" in refined sugar and the development of methods for the elimination of these bacteria.

I was laid off in February 1946 on the closing of the distillery.

2. May, 1946 to present

6823 Kindred Street

Philadelphia 24, Pa

July 1, 1948.

6823 Kindred Street

6823 Kindred

Box P-106 Inquirer 8

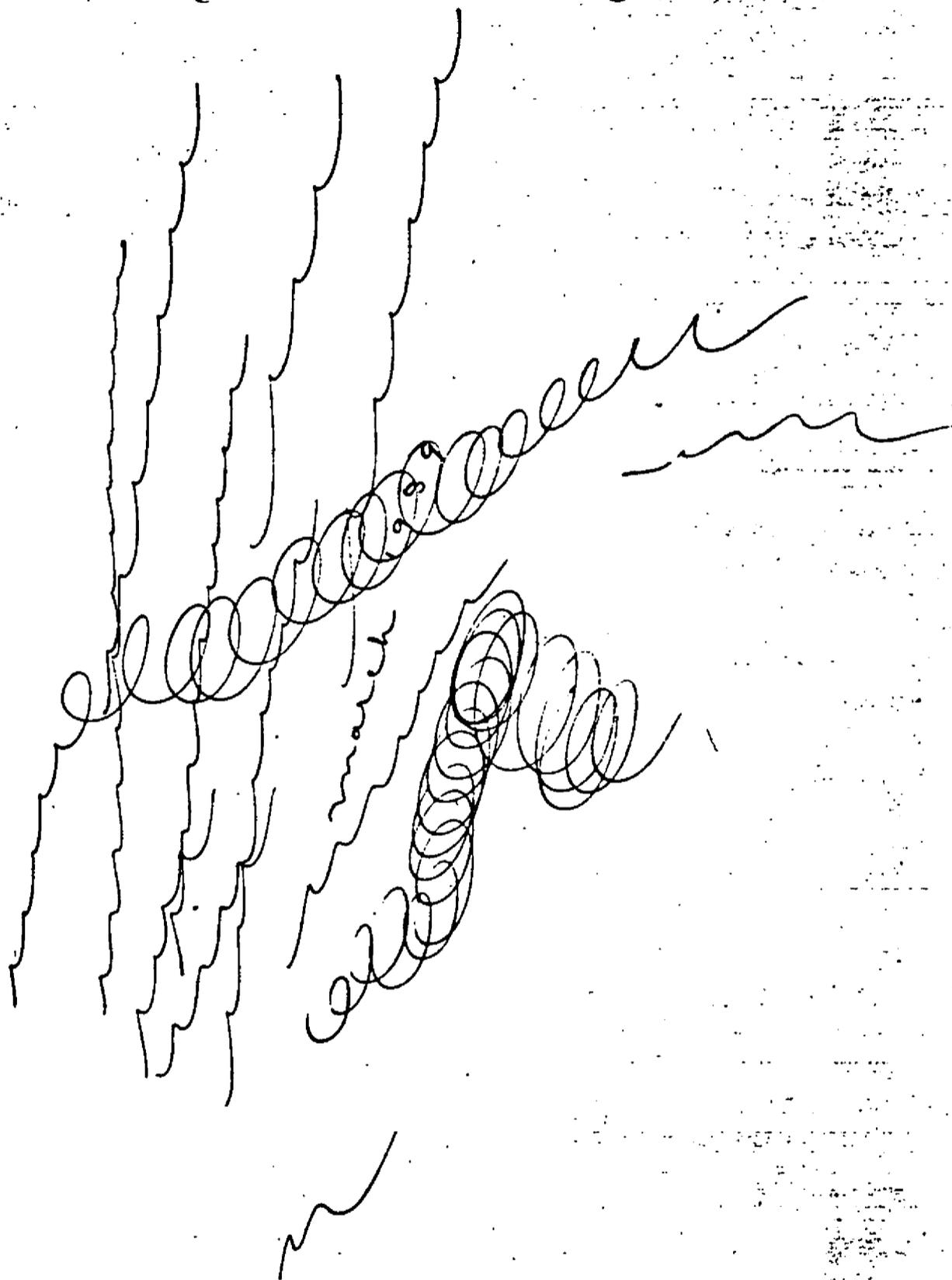
Box P-106 Inquirer

Dear Sir:

This letter is in answer to your advertisement in the Philadelphia Inquirer of Thursday June 4, 1948 for an organic chemist.

I am thirty seven years of age, single, and have had a total of nineteen years of experience and education in the field of chemistry.

*[Extensive scribbled-out text and illegible handwriting]*



6-6-50  
DM



6823 Kindred Street,  
Philadelphia 24, Pa.

July 28, 1948.

336 Inquirer,

Dear Sir:

erifiable.

Below are given some pertinent data:

1. Thioglycolic acid (in the form of its ammonium salt) is used very extensively in the so-called "cold wave" kits; it is used as a 4 to 6% solution. The firm for which the process was developed is The Stanton

which I am certain that I possess. Below is given a summary of my previous professional experience and educational background.

I. Experience

Period of Employment - January 1929 to February 1946. There are two gaps during this time which

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

~~Pilot Plant~~

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
Pilot plant work on the development of a process

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

6820 Kindred Street,  
Philadelphia 24, Pa.

July 15, 1948.

Dr. Harlan L. Tutthill,  
Smith, Kline and French Laboratories,  
800 N. Delaware Avenue,  
Philadelphia, Pa.

Dear Dr. Tutthill:

I submit the following brief description  
of the thioglycolic acid process which was  
developed during my stay in charge of the  
laboratory at A. Brothman and associates.  
While I gave a verbal account of this pro-  
cess in my interview on June 16, I now  
recall that no written material was handed  
over for inclusion in my record. I am par-  
ticularly anxious to bring this to your at-  
tention because it re

C

6023 Kindred Street

Philadelphia 24, Pa.

July, 15, 1948.

Dr. Harlan L. Tutthill,  
Smith, Kline and French Laboratories,  
800 N. Delaware Avenue,  
Philadelphia, Pa.

Dear Dr. Tutthill:

I submit the following brief description  
of the thioglycolic acid process which was  
developed at A. Brothman and Associates  
during my stay as

~~of the thioglycolic acid process which was  
developed at A. Brothman and Associates  
during my stay as~~  
of the thioglycolic acid process which was  
developed at A. Brothman and Associates  
during my stay as

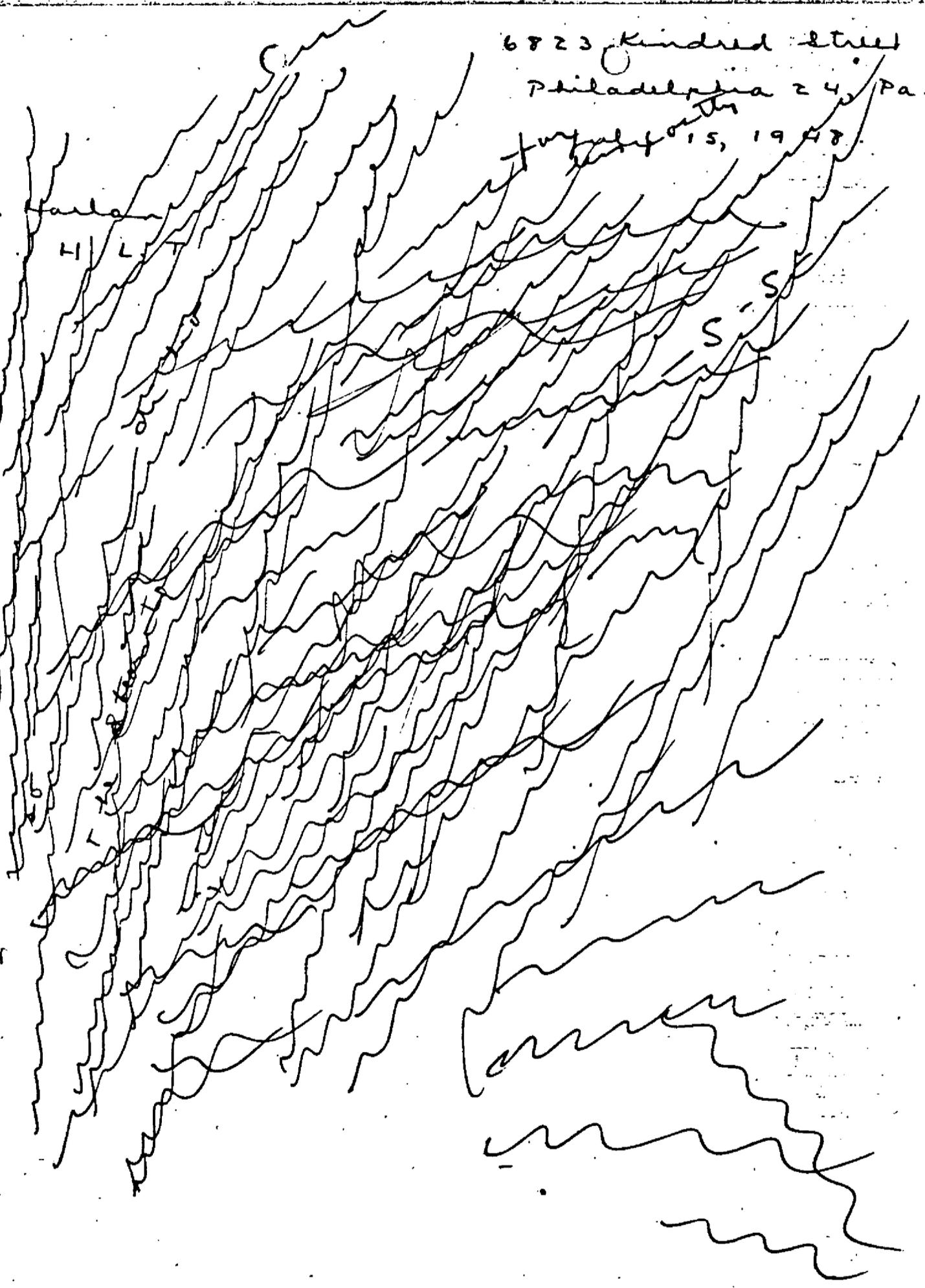
6823 Kindred Street  
Philadelphia 24, Pa.  
July 15, 1948

Dr. Harold

H L T

S-S

a - Considerable  
colate



My mother died last September

and since then

4

10-6-50  
MD

continuation sheet 1

Experience

Firm A. Brothman and Associates

Period May 1946 to June 1947

Job Chief Chemist

Description of work - The above named firm is a chemical process development organization. During my stay as chief chemist the following projects were worked on and successfully completed

a novel process for the production of methyl methacrylate monomer ~~the~~ <sup>starting with</sup> ~~polymerized~~ from acetone and acetylene as compared with the previous route via acetone and hydrocyanic acid. The methyl methacrylate when polymerized results in the plastic material known as "Lucite or Plexiglas")

~~The~~ acetylene synthesis is considered

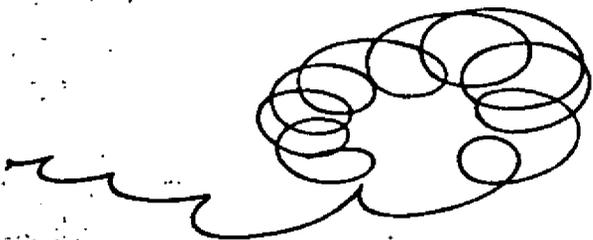
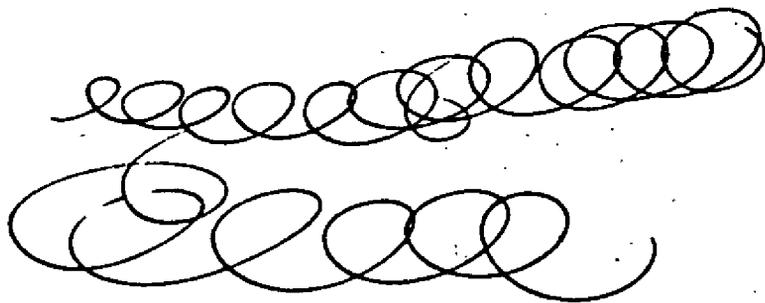


in the by-product feed yeast  
produced by molasses fermenta-  
tion

b. Working out of improvements in  
the assay methods for factors of  
the B complex.

c. Production of special cultures  
designed to increase the Thiamin,  
Pantothenic acid and Riboflavin  
content of the feed yeast.

d.



Handwritten scribbles and loops, possibly representing a signature or decorative flourish.

Handwritten cursive text, possibly a name or short phrase.

Handwritten scribbles and loops, possibly representing a signature or decorative flourish.

Handwritten scribbles and loops, possibly representing a signature or decorative flourish.

Handwritten scribbles and loops, possibly representing a signature or decorative flourish.

Handwritten text in the bottom right corner, possibly a date or initials.

Harry Gold

6823 Kindred Street,  
Philadelphia 24, Pa.

Harry Gold

May 23, 1948.

(Harry Gold)

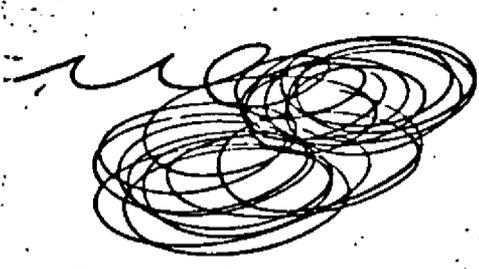
Box N-228 Inquirer

Dear Sir:

This letter is in answer to your advertisement in the Philadelphia Inquirer of Sunday May 23, 1948 for a chemist.

I am thirty-seven years of age and am at present employed as chief chemist for the firm of A. Brothman and Associates, a process development engineers in New York City; though I am in New York all week, I return to my home in Philadelphia for week ends.

~~My mother died last September~~  
~~My father & brother have~~  
~~been ill for some time~~  
~~and I am unable to~~  
~~travel at this time~~  
~~and I am unable to~~  
~~travel at this time~~  
~~and I am unable to~~  
~~travel at this time~~  
Friday  
A. Per...



6705 Kinross Street,  
 Philadelphia 24, Pa.  
 May 23, 1948

Box N-228 Inquirer;  
 Dear Sir:

This letter is in answer to your advertisement for a chemist in the Philadelphia Inquirer of Sunday May 17, 1948.

I am certain that I have the <sup>exp.</sup> ~~training & qualifications to~~  
~~adequately fill the job.~~

exact combination of training & experience to enable me to adequately fill the job. Below is ~~outlined the~~  
 outline of my educational background & previous professional experience.

I Experience

Firm period of Employment work	Penna Sugar Co. Subsidiaries Jan 1929 to Feb 1946 (I was assigned to duty of work - for the schooling part of my service) for 1944 to <del>Jan</del> Feb 1946 - Part time service in the Sugar Laboratory
--------------------------------------	---

(1) 0  
Experience

Firm Penna. Sugar Co. (and subsidiaries)

period January 1929 to February 1946

I worked for the Penna. Sugar Co. and its various divisions for a seventeen year period ~~interrupted~~ broken up only by two

a few years ago and had been recommended as a use for very poor quality oil; in fact, even crankcase oil will perform quite well. This process utilizes the well known dehydrogenating action of sulfur.

all of the above can be

2. Mr. John

9

0

*[Large scribbled-out area]*

Summary of Experience and  
and  
Education

*[Scribbled-out lines]*

*[Scribbled-out lines]*

⑥  
Description of work - 0.

Here again, Mr. Donaherty and I worked together on an equal basis; two divisions of the company were served, the distillery and the sugar refinery. Our responsibilities included:

1. For the Distillery

6823 Kindred Street  
Philadelphia 24, Pa.  
August 1, 1948

96, P. O. Box 3414  
Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your advertisement for a chemical engineer in the Philadelphia Inquirer of Sunday August 1, 1948.

I am thirty seven years of age, am single, and have had a total of nineteen years of experience and education in the fields of chemistry and chemical engineering. The job specifications require a definite combination of training, practical background and ability which I am certain

6823 Kindred Street,  
Philadelphia 24, Pa.

May 23, 1948.

Box N-228 Inquirer

Dear Sir:

This letter is in answer to your advertisement in the Philadelphia Inquirer of Sunday May 23, 1948 for a chemist.

I am thirty seven years of age, male, and have had a total of twenty years of experience and education in the field of chemistry. The job specifications require a ~~man~~ definite combination of training, experience and ability which I am certain that I possess.

and am employed <sup>in New York</sup> as chief chemist for the firm of

A. Brothman and associates

29-27 41st Avenue

Brooklyn, N.Y.

6823 Kindred Street,  
Philadelphia 24, Pa.  
August 1, 1948.

2-96, P.O. Box 3414  
Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your  
advertisement in the Philadelphia Inquirer

*[Handwritten signature and scribbles]*

6823 Kindred Street  
Philadelphia 24, Pa.  
August 1, 1948.

96, P.O. Box 3414

Philadelphia 22, Pa.

*[Handwritten signature]*

*[Handwritten signature]*

6823 Kindred Street,  
Philadelphia 24, Pa.  
August 1, 1948

96, P.O. Box 3414  
Philadelphia 22, Pa.

Dear Sir:

This letter is in answer to your

*[Handwritten signature]*



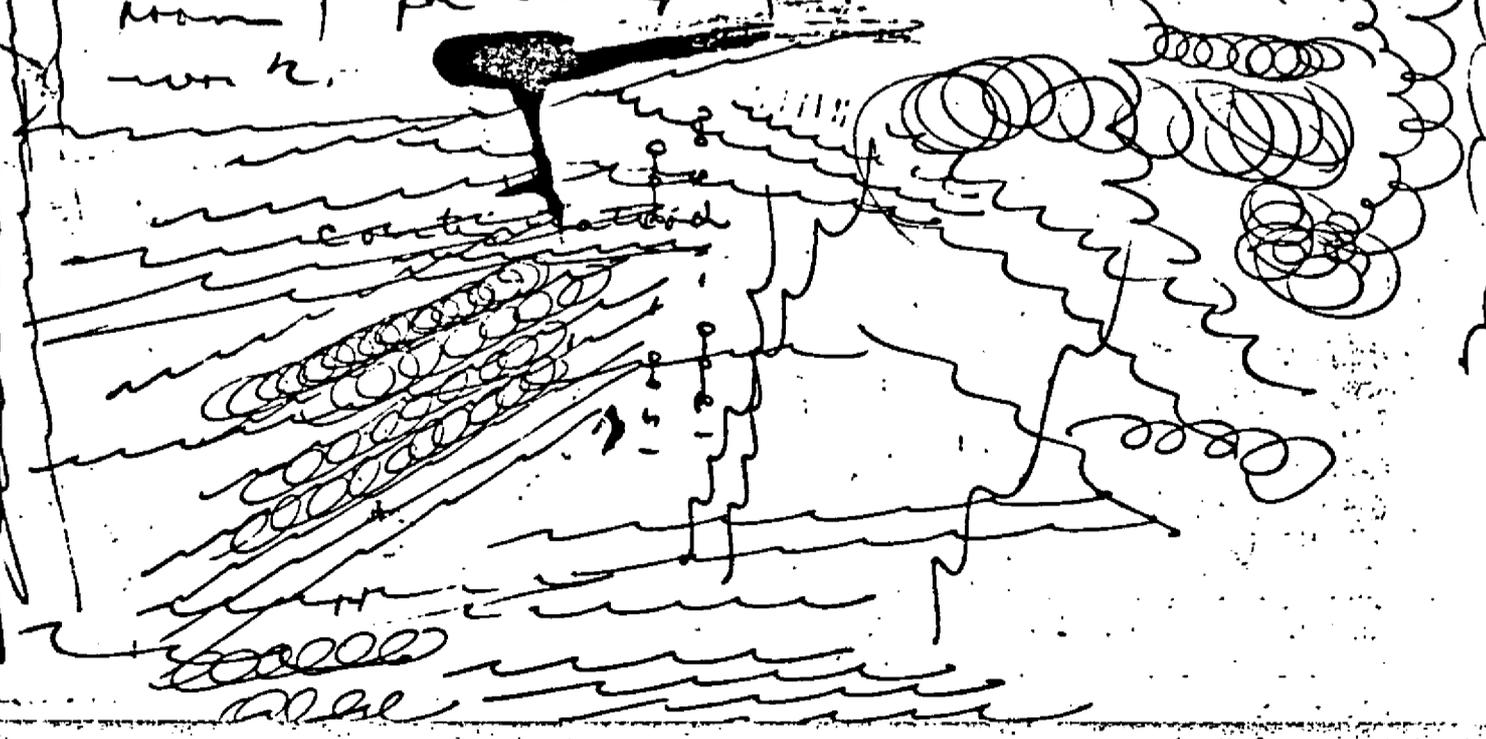
II - Work on ( )

A. Revision of ~~the~~ existing methods for  
the *T. demovillei* bacteria counts on  
Canner's Shell Ceylon. These ~~are~~  
~~are~~ microorganisms are capable of  
surviving being heated at 100°C &  
later could multiply of course when used  
in food processing. The other food will  
be laid down by the actual canner's own  
lab in Wash. D.C. The work had for some  
time been done in the biological summer res.  
in prep of the methods by canners.

to try up

B. Development of water lab for carrying out  
tests for B. coli on the new water treating  
system for the refinery.

The reason for the work ~~is~~ ~~the~~ ~~above~~ being  
done in the bacteriology laboratories was that  
we had the basic equipment (large scale  
autoclaves & incubator) and incubator  
room) for carrying out ~~the~~ ~~work~~  
work.



a few years ago and had been recom-  
mended as a use for very poor quality  
oil; in fact, in an emergency even  
crankcase oil can be substituted.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

well known

my part

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ripiable.

Below is given

~

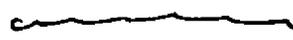
6875 Lindbergh Street

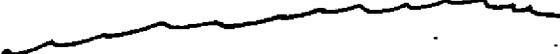
Philadelphia 24, Pa.

July 15, 1948.

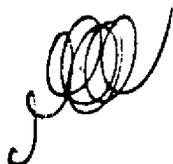
Dr. Harlan L. Tretwell

Smith, Kline and French Laboratories

S - S 

  
I + S

I + S 



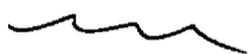
6823 Kindred Street,  
Philadelphia 24, Pa

July 15, 1948.

Dr. Harlan L. Tuthill,  
Smith, Kline and French Laboratories,  
800 N. Delaware Avenue,  
Philadelphia, Pa.

Dear Dr. Tuthill:

I submit the following brief description of the thioglycolic acid process which was developed during my stay at A.



(

6803 Kindred Street,

Philadelphia 24, Pa

July 2



Continuation sheet 10

Description of Work -

The two divisions of the company  
were concerned here.

Con. page

"

Con

Continuation sheet 10

Penina Sugar Co.

1037 n. Delaware ave  
D market market  
1909

Dear Dr. Myers:

I enclose a  
completed appli  
cation for  
market



Experience

Firm A. Rothman and Associates  
Period May, 1956 to June, 1958  
Job Chief Chemist

Description of Work -

The above named firm is a chemical process development organization. During my stay

Description of work -

0

Here again, Mr. Dougherty and I worked together on an equal basis; our



between providing the Thiruvallur vice  
air from all H.W.A. However  
we succeeded in modifying the process  
so that this problem was no longer  
arising

we were so serious that the city is local  
authorities had threatened to shut the place  
down.

~~at present the plant has been closed~~  
~~because there are no cheap supplies of~~  
~~oil of H.I. were available~~

Even the operation of H.I.S. presented  
a problem. Due to the winter season  
and the fact that the use of F.A.S. will be  
of such low efficiency as a result of  
factors not admitted to with those without  
~~the fact that the use of F.A.S. will be~~  
in which  $\frac{1}{2}$  sulphur to a low grade fuel  
oil matter is to be used at  $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   
to yield a fuel of 15% S; the process  
is ~~not~~ but has been described in ~~the~~  
the ~~merging~~ case ~~and~~ ~~oil~~ ~~is~~  
we used.

all of the above can be satisfied by

device my telephone conversation with  
you

I am particularly anxious to  
know if you are a ~~member~~  
of the ~~organization~~  
~~of the~~ ~~organization~~  
a well known ~~member~~ ~~of the~~  
for ~~the~~ ~~purpose~~ ~~of~~ ~~the~~  
of ~~the~~ ~~organization~~ ~~of~~ ~~the~~  
very high

had submitted the following

description of the thiocollie acid ~~process~~  
for additional to my record. while I  
gave a verbal ~~description~~ of this process  
~~to~~ ~~you~~ during my interview,  
I now recall that no written material  
was submitted for the following details facts:  
all pertinent:

From there we went on to discuss  
the ~~structure~~ ~~of~~ ~~the~~ ~~acid~~ ~~and~~ ~~its~~ ~~formation~~  
with the ~~method~~ ~~of~~ ~~analysis~~  
to ~~analyze~~ ~~the~~ ~~acid~~ ~~and~~ ~~its~~ ~~formation~~

Essentially it involves the reaction of  
the ~~acid~~ ~~with~~ ~~the~~ ~~acid~~ ~~and~~ ~~its~~ ~~formation~~  
78% to 97%  
I thiocollie acid (in the form of its  
N<sub>2</sub>H<sub>4</sub> salt) is used by ~~the~~ ~~organization~~  
in the ~~acid~~ ~~and~~ ~~its~~ ~~formation~~  
was developed for the ~~acid~~ ~~and~~ ~~its~~ ~~formation~~  
of ~~the~~ ~~acid~~ ~~and~~ ~~its~~ ~~formation~~  
the ~~acid~~ ~~and~~ ~~its~~ ~~formation~~

Na basically are undertaken to solve the  
of the ~~acid~~ ~~and~~ ~~its~~ ~~formation~~

Experience

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Period January 1929 to February 1946

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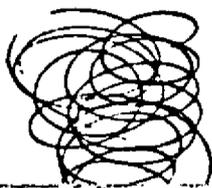
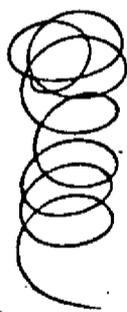
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Experience

Firm Penna. Sugar Co. (and subsidiaries)

Period January 1929 to February 1946

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Niacin

Pyridoxine

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18. CONTINUED

Dates of employment: (Month, year) From: _____ To: _____ Place of employment (city and State): _____		Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____ _____ _____		Description of your work: _____ _____ _____ _____ _____	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____ _____			
Number and kind of employees supervised by you: _____ _____			
Name and title of immediate supervisor: _____ _____			
Reason for leaving: _____ _____			
Dates of employment: (Month, year) From: _____ To: _____ Place of employment (city and State): _____		Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____ _____ _____		Description of your work: _____ _____ _____ _____ _____	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____ _____			
Number and kind of employees supervised by you: _____ _____			
Name and title of immediate supervisor: _____ _____			
Reason for leaving: _____ _____			
Dates of employment: (Month, year) From: _____ To: _____ Place of employment (city and State): _____		Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____ _____ _____		Description of your work: _____ _____ _____ _____ _____	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____ _____			
Number and kind of employees supervised by you: _____ _____			
Name and title of immediate supervisor: _____ _____			
Reason for leaving: _____ _____			
Dates of employment: (Month, year) From: _____ To: _____ Place of employment (city and State): _____		Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____ _____ _____		Description of your work: _____ _____ _____ _____ _____	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____ _____			
Number and kind of employees supervised by you: _____ _____			
Name and title of immediate supervisor: _____ _____			
Reason for leaving: _____ _____			

If more space is required, use a continuation sheet (Standard Form No. 58) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

**17. MILITARY EXPERIENCE**—In order to make the most effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (e) all important changes in duty assignment, showing dates of such assignment.

(a) First Special Service School attended:	(b) What were you taught in First Special Service School?
Location:	
Dates attended (months, years):	
From: To:	
Rating received at end of this training:	
(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School):	(d) What did you do during this duty assignment?
Dates of duty assignment (months, years):	
From: To:	
(e) Second Special Service School attended:	(f) What were you taught in Second Special Service School?
Location:	
Dates attended (months, years):	
From: To:	
Rating received at end of this training:	
(g) Duty assignment after this training:	(h) What did you do during this duty assignment?
Dates of duty assignment (months, years):	
From: To:	

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

**18. EDUCATION**—Circle highest grade completed:  
 1 2 3 4 5 6 7 8 9 10 11 12  
 Mark (x) the appropriate box to indicate satisfactory completion of:  
 Elementary School  Junior High School  Senior High School

(a) Give name and location of last high school attended:  
 (b) Subjects studied in high school which apply to position desired:

(c) Name and Location of College or University	Major	Date Attended		Years Completed		Degrees Conferred		Semester Hours Credit
		From—	To—	Day	Night	Title	Date	
		Jan 1925	Aug 1928	4				
(d) List Your Chief Undergraduate College Subjects	Semester Hours	List Your Chief Graduate College Subjects						Semester Hours

(e) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:

Subjects Studied	Date Attended		Years Completed	
	From—	To—	Day	Night

19. Indicate your knowledge of foreign languages:	READING			SPEAKING			UNDERSTANDING		
	Exc.	Good	Fair	Exc.	Good	Fair	Exc.	Good	Fair
German	✓						✓		
French	✓						✓		✓

21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)  
 Yes  No Give kind of license and State:  
 First license or certificate (year):  
 Latest license or certificate (year):

(a) How was your knowledge of foreign languages acquired?  
 (b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation):

22. Give any special qualifications not covered elsewhere in your application such as:  
 (a) your more important publications (do NOT submit copies unless requested)  
 (b) your patents or inventions  
 (c) public speaking and public relations experience  
 (d) membership in professional or scientific societies, etc.

20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multilith, comptometer, key-punch, turret lathe, scientific or professional devices:  
 Approximate number of words per minute in typing \_\_\_\_\_ shorthand \_\_\_\_\_

one 05-9-9

23. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed in you and who have definite knowledge of your under item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.		YES	NO	Indicate "Yes" or "No" answer by placing X in proper column.		YES	NO
25. Are you a citizen of the United States?				26. Have you any physical defect or disability whatsoever? If your answer is "Yes," give complete details in Item 38.			
26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence? If your answer is "Yes," give complete details in Item 38.				26. (a) Were you ever in the United States Military or Naval Service during time of War?			
27. Within the past 12 months, have you habitually used intoxicating beverages to excess?				(b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation?			
28. Since your 18th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)? If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.				(c) Was service performed on an active full-time basis, with full military pay and allowances?			
29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position? If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.				(d) Date of entry or entry into serv- ice: _____ Date of separation or separation: _____			
30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service? If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional disability, or by reason of voluntary or involuntary separation after 5 years' service, amount of retirement pay, and under what retirement act, and rating if retired from military or naval service.				Branch of service (Army, Navy, M. C., C. G., etc.)	Grade (rank) or rating at time of separation:	Serial No.	
31. Are you an official or employee of any State, Territory, county, or municipality? If your answer is "Yes," give details in Item 38.				IF YOUR ANSWERS TO THIS QUESTION (No. 30) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.			
32. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 6 months? If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.				Indicate "Yes" or "No" answer by placing X in proper column.		YES	NO
33. Have you ever had a nervous breakdown? If your answer is "Yes," give complete details in Item 38.				37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?			
34. Have you ever had tuberculosis? If your answer is "Yes," give complete details in Item 38.				(b) Are you a disabled veteran?			
35. Space for detailed answers to other questions (indicate item numbers to which answers apply).				(c) Are you the unmarried widow of a veteran?			
ITEM No. _____				(d) Are you the wife of a veteran who has service-connected disability?			
ITEM No. _____				IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.			
				<b>THIS SPACE FOR USE OF APPOINTING OFFICE ONLY</b>			
				The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on _____ 19____			
				Agency: _____	Title: _____		

ITEM No.	ITEM No.

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.  
**FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 80).**  
 I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
 (Sign your name in INK (one given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name as "Mrs. Mary L. Doe.")

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

**1. Name of examination, or kind of position applied for:**

**2. Optional subject (if mentioned in examination announcement):**

**3. Place of employment applied for:**

**4. Mr. (First name) (Middle) (Maiden, if any) (Last)**  
Miss Harry Gold

**5. Street and number or R. D. number:**  
6823 Kindred Street  
City or post office (including postal zone), and State:  
Philadelphia 24, Penna.

**6. Legal or voting residence (State):** Pennsylvania **7. Office phone No.:** Newtown 9-6093 **Home phone:** Pilgrim 5-8492

**8. Place of birth (city and State; if born outside U. S., name city and country):**  
Bern, Switzerland

**9. Date of birth (month, day, year):** Dec. 12, 1910 **10. Age last birthday:** 36 **11.  Male  Female**

**12.  Married  Single** **13. Height without shoes:** 5 feet 6 inches **Weight:** 160 pounds

**14. Have you ever been employed by the Federal Government?  Yes  No**  
If now employed by the Federal Government, give present grade and date of last change in grade:

**DO NOT WRITE IN THIS BLOCK**  
For Use of Civil Service Commissions Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	Entered register:		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Submitted	<input type="checkbox"/> Returned		
Notations:		App. Review:		
		Approved:		
OPTION	GRADE	EARNED RATING	PREFER-ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (last)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Discal.	
			<input type="checkbox"/> Being investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column	YES	NO	18. (c) If you will accept appointment in certain locations ONLY, give acceptable locations:
18. (a) Would you accept short-term appointment, if offered, for—			
1 to 3 months?			
3 to 6 months?			
6 to 12 months?	YES		
(b) Would you accept appointment, if offered—			18. (d) What is the lowest entrance salary you will accept \$ _____ per year. You will not be considered for positions paying less.
in Washington, D. C.?			
anywhere in the United States?	YES		
outside the United States?			18. (e) If you are willing to travel, specify: <input type="checkbox"/> Occasionally <input checked="" type="checkbox"/> Frequently <input type="checkbox"/> Constantly

**16. EXPERIENCE.**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION		
Date of employment: (Month, year)	Exact title of your present position:	Salary or earnings:
From: _____ To present time		Starting \$ _____ per _____
Place of employment (city and State):		Present \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:	Description of your work:	
Kind of business or organization (e. g., wholesale sell, insurance agency, mfg. of locks, etc.):		
Number and kind of employees supervised by you:		
Name and title of immediate supervisor:		
Reason for desiring to change employment:		

**17. MILITARY EXPERIENCE.**—In order to make the effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

(a) First Special Service School attended: Location: Dates attended (months, years): From: To: Rating received at end of this training:	(b) What were you taught in First Special Service School?
(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School): Dates of duty assignment (months, years): From: To:	(d) What did you do during this duty assignment?
(e) Second Special Service School attended: Location: Dates attended (months, years): From: To: Rating received at end of this training:	(f) What were you taught in Second Special Service School?
(g) Duty assignment after this training: Dates of duty assignment (months, years): From: To:	(h) What did you do during this duty assignment?

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

**18. EDUCATION.**—Circle highest grade completed:  
1 2 3 4 5 6 7 8 9 10 11 12

Mark (x) the appropriate box to indicate satisfactory completion of:  
 Elementary School     Junior High School     Senior High School

(a) Give name and location of last high school attended:  
South Philadelphia High School

(b) Subjects studied in high school which apply to position desired:

(c) Name and Location of College or University    Major

<u>University of Pennsylvania</u>	<u>Chem.</u>
<u>Drexel Institute Evening School</u>	<u>Chem.</u>
<u>Xavier University (Cincinnati, Ohio)</u>	<u>Chem.</u>

(d) List Your Chief Undergraduate College Subjects

Chemistry  
Chemical Engineering  
Mathematics  
English

Dates Attended	Years Completed	Degrees Conferred		Semester Hours Credit
		Title	Date	
From— <u>1932</u> To— <u>1933</u>	<u>1 1/2</u>			
<u>1934</u> <u>1936</u>	<u>2 1/2</u> <u>2 1/2</u>			
<u>1937</u> <u>1940</u>	<u>2</u>	<u>B.S.</u>	<u>JUNE, 1940</u>	

(e) List Your Chief Graduate College Subjects

Semester Hours

(a) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:

Subjects Studied	Dates Attended		Years Completed	
	From—	To—	Day	Night

19. Indicate your knowledge of foreign languages:

Language	READING			SPEAKING			UNDERSTANDING		
	Exc.	Good	Fair	Exc.	Good	Fair	Exc.	Good	Fair
<u>German</u>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
<u>French</u>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)

Yes     No    Give kind of license and State:

First license or certificate (year):

Latest license or certificate (year):

(a) How was your knowledge of foreign languages acquired?  
High School and College Study

(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreational):

22. Give any special qualifications not covered elsewhere in your application such as:

(a) your more important publications (do NOT submit copies unless requested)  
(b) your patents or inventions  
(c) public speaking and public relations experience  
(d) membership in professional or scientific societies, etc.

20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, comptometer, key-punch, turret lathe, scientific or professional devices:

Approximate number of words per minute in typing ..... shorthand .....

**22. CONTINUED**

Dates of employment (Month, year) From: _____ To: _____		Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____	
Place of employment (city and State): _____			Description of your work: _____	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____		_____		
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____		_____		
Number and kind of employees supervised by you: _____		_____		
Name and title of immediate supervisor: _____		_____		
Reason for leaving: _____		_____		
Dates of employment (Month, year) From: _____ To: _____		Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____	
Place of employment (city and State): _____			Description of your work: _____	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____		_____		
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____		_____		
Number and kind of employees supervised by you: _____		_____		
Name and title of immediate supervisor: _____		_____		
Reason for leaving: _____		_____		
Dates of employment (Month, year) From: _____ To: _____		Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____	
Place of employment (city and State): _____			Description of your work: _____	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____		_____		
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____		_____		
Number and kind of employees supervised by you: _____		_____		
Name and title of immediate supervisor: _____		_____		
Reason for leaving: _____		_____		
Dates of employment (Month, year) From: _____ To: _____		Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____	
Place of employment (city and State): _____			Description of your work: _____	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____		_____		
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): _____		_____		
Number and kind of employees supervised by you: _____		_____		
Name and title of immediate supervisor: _____		_____		
Reason for leaving: _____		_____		

If more space is required, use a continuation sheet (Standard Form No. 50) on a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to back of this application.

018 05-7-7

23. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION
1		
2		
3		

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.

	YES	NO	Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO
25. Are you a citizen of the United States?	X		35. Have you any physical defect or disability whatsoever? ... If your answer is "Yes," give complete details in Item 38.		X
26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence? If your answer is "Yes," give complete details in Item 38.		X	36. (a) Were you ever in the United States Military or Naval Service during time of War?		X
27. Within the past 12 months, have you habitually used intoxicating beverages to excess?		X	(b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation?		
28. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)? If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.		X	(c) Was service performed on an active full-time basis, with full military pay and allowances?		
29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position? If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.		X	(d) Date of entry or entries into service: _____ Date of separation or separations: _____		
30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service? If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional, disability, or by reason of voluntary or involuntary separation after 5 years' service; amount of retirement pay, and under what retirement act and rating if retired from military or naval service.			Branch of service (Army, Navy, M. C., C. G., etc.) _____ Serial No. (if none, give grade or rating at time of separation.) _____		
31. Are you an official or employee of any State, Territory, county, or municipality? If your answer is "Yes," give details in Item 38.		X	IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.		
32. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 6 months? If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.		X	Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO
33. Have you ever had a nervous break-down? If your answer is "Yes," give complete details in Item 38.		X	37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?		
34. Have you ever had tuberculosis? If your answer is "Yes," give complete details in Item 38.		X	(b) Are you a disabled veteran?		
			(c) Are you the unmarried widow of a veteran?		
			(d) Are you the wife of a veteran who has service-connected disability?		
			IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.		
			<b>THIS SPACE FOR USE OF APPOINTING OFFICE ONLY</b>		
			The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on _____ 18_____		
			Agency: _____	Title: _____	

38. Space for detailed answers to other questions (indicate item numbers to which answers apply).

ITEM No.	ANSWER	ITEM No.	ANSWER
32	(1) Joseph Gold		
	(2) 6222 Kindred St., Phila. 24, Pa.		
	(3) Brother		
	(4) Veterans' Administration (veteran)		
	(5) Temporary		

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application. FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 807). I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: Mary Gold  
(Sign your name in INK (one given name, initial, initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name (Mrs. Mary L. Doe.)

PHILA Reg. Loan Charge Office

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Type or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

1. Name of examination, or kind of position applied for:

2. Optional subject (if mentioned in examination announcement):

3. Place of employment applied for:

4. Mr. (First name) (Middle) (Maiden, if any) (Last)  
Harry Gold

5. Street and number or R. D. number:  
6723 Kindred Street  
City or post office (including postal zone), and State:  
Philadelphia 24 Penna.

6. Legal or voting residence (State):  
Pennsylvania

7. Office phone No.: Newtown Home phone: Pilgrim  
7-6093 5-2492

8. Place of birth (city and State; if born outside U. S., name city and country):  
Bern, Switzerland

9. Date of birth (month, day, year): Dec. 12, 1910 10. Age last birthday: 36 11.  Male  Female

12.  Married  Single 13. Height without shoes: 5 feet 8 inches Weight: 160 pounds

14. Have you ever been employed by the Federal Government?  Yes  No  
If now employed by the Federal Government, give present grade and date of last change in grade:

DO NOT WRITE IN THIS BLOCK  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	Entered register:		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Returned			
Notations:		App. Review:		
Approved:				
OPTION	GRADE	EARNED RATING	PREFER- ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (max.)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Disol.	
			<input type="checkbox"/> Being Investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column		YES	NO	15. (a) If you will accept appointment in certain locations ONLY, give acceptable locations:
15. (a) Would you accept short-term appointment if offered for—	1 to 3 months?		No	
	3 to 6 months?		No	
	6 to 12 months?		No	
(b) Would you accept appointment if offered—				(d) What is the lowest entrance salary you will accept: \$ _____ per year. You will not be considered for positions paying less.
in Washington, D. C.?		Yes		(e) If you are willing to travel, specify: <input checked="" type="checkbox"/> Occasionally <input type="checkbox"/> Frequently <input type="checkbox"/> Constantly
anywhere in the United States?				
outside the United States?				

16. **EXPERIENCE.**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in Item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION		
Dates of employment: (Month, year) From: <u>May, 1946</u> To present time	Exact title of your present position: <u>Chief Chemist</u>	Salary or earnings: Starting: \$ <u>5200</u> per year Present: \$ <u>5200</u> per year
Place of employment (city and State): <u>New York, N.Y.</u>	Description of your work:	
Name and address of employer (firm, organization, or person), if Federal, name department, bureau or establishment and division: <u>A. Brothman and Associates</u> <u>29-28 41st Street, L.I. City</u>		
Kind of business or organization (e. g., wholesale alk., insurance agency, mfg. of locks, etc.): <u>Chemical and Mechanical Engineers</u>		
Number and kind of employees supervised by you: <u>4</u> , <u>2 Chemists</u> <u>1 Chemical Engineer</u> <u>1 Lab. Assistant</u>		
Name and title of immediate supervisor: <u>Mr. A. Brothman, Chief Engineer</u>		
Reason for desiring to change employment:		

17. **MILITARY EXPERIENCE**—In order to make most effective placement of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

<p>(a) First Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p> <p>(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School): _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(b) What were you taught in First Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(d) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																	
<p>(e) Second Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p> <p>(g) Duty assignment after this training: _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(f) What were you taught in Second Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(h) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																	
<p>List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.</p>																																																		
<p>18. <b>EDUCATION</b>—Circle highest grade completed:</p> <p>1 2 3 4 5 6 7 8 9 10 11 12</p> <p>Mark (x) the appropriate box to indicate satisfactory completion at:</p> <p><input type="checkbox"/> Elementary School <input type="checkbox"/> Junior High School <input type="checkbox"/> Senior High School</p>	<p>(a) Give name and location of last high school attended: _____</p> <p>(b) Subjects studied in high school which apply to position desired: _____</p>																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">(a) Name and Location of College or University</th> <th rowspan="2">Major</th> <th colspan="2">Dates Attended</th> <th colspan="2">Years Completed</th> <th colspan="2">Degrees Conferred</th> <th rowspan="2">Semester Hours Credit</th> </tr> <tr> <th>From—</th> <th>To—</th> <th>Day</th> <th>Night</th> <th>Title</th> <th>Date</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	(a) Name and Location of College or University	Major	Dates Attended		Years Completed		Degrees Conferred		Semester Hours Credit	From—	To—	Day	Night	Title	Date																			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>(d) List Your Chief Undergraduate College Subjects</th> <th>Semester Hours</th> <th>(c) List Your Chief Graduate College Subjects</th> <th>Semester Hours</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	(d) List Your Chief Undergraduate College Subjects	Semester Hours	(c) List Your Chief Graduate College Subjects	Semester Hours												
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	From—	To—		Day	Night	Title	Date																																											
(d) List Your Chief Undergraduate College Subjects	Semester Hours	(c) List Your Chief Graduate College Subjects	Semester Hours																																															
<p>(e) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency: _____</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Subjects Studied</th> <th colspan="2">Dates Attended</th> <th colspan="2">Years Completed</th> </tr> <tr> <th>From—</th> <th>To—</th> <th>Day</th> <th>Night</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Subjects Studied	Dates Attended		Years Completed		From—	To—	Day	Night																																								
Subjects Studied	Dates Attended		Years Completed																																															
	From—	To—	Day	Night																																														
<p>19. Indicate your knowledge of foreign languages:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2"></th> <th colspan="3">READING</th> <th colspan="3">SPEAKING</th> <th colspan="3">UNDERSTANDING</th> </tr> <tr> <th>Flu.</th> <th>Good</th> <th>Fair</th> <th>Flu.</th> <th>Good</th> <th>Fair</th> <th>Flu.</th> <th>Good</th> <th>Fair</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table> <p>(a) How was your knowledge of foreign languages acquired? _____</p> <p>(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation): _____</p> <p>20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, compass, key-punch, turret lathe, scientific or professional devices: _____</p> <p>Approximate number of words per minute in typing _____ shorthand _____</p>		READING			SPEAKING			UNDERSTANDING			Flu.	Good	Fair	Flu.	Good	Fair	Flu.	Good	Fair																					<p>21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Give kind of license and State: _____</p> <p>First license or certificate (year): _____</p> <p>Latest license or certificate (year): _____</p> <p>22. Give any special qualifications not covered elsewhere in your application such as:</p> <p>(a) your more important publications (do NOT submit copies unless requested)</p> <p>(b) your patents or inventions</p> <p>(c) public speaking and public relations experience</p> <p>(d) membership in professional or scientific societies, etc.</p>										
		READING			SPEAKING			UNDERSTANDING																																										
	Flu.	Good	Fair	Flu.	Good	Fair	Flu.	Good	Fair																																									

10. CONTINUED

Dates of employment (Month, year) From: <u>April, 1944</u> To: <u>Feb., 1946</u> Place of employment (city and State): <u>Philadelphia, Penna.</u> Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co.</u> <u>(Alcohol Division)</u> Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): <u>Mfg. of Alcohol and By-Products</u> Number and kind of employees supervised by you: <u>3 Routing Chemists</u> <u>1 Lab. Assistant</u> <u>1 Plant Operator</u> Name and title of immediate supervisor:  Reason for leaving:	Exact title of your position:  Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State):  Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:  Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.):  Number and kind of employees supervised by you:  Name and title of immediate supervisor:  Reason for leaving:	Exact title of your position:  Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State):  Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:  Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.):  Number and kind of employees supervised by you:  Name and title of immediate supervisor:  Reason for leaving:	Exact title of your position:  Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State):  Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:  Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.):  Number and kind of employees supervised by you:  Name and title of immediate supervisor:  Reason for leaving:	Exact title of your position:  Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:

If more space is required, use a continuation sheet (Standard Form No. 58) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of application.

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Type or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

APPLICATION NO.	1. Name of examination, or kind of position applied for: <b>Chemist, P3</b>
	2. Optional subject (if mentioned in examination announcement):
	3. Place of employment applied for:
	4. Mr. (First name) (Middle) (Maidsen, if any) (Last) Mrs. Miss <b>Harry Gold</b>
	5. Street and number of R. D. number: <b>6823 Kindred Street</b> City or post office (including postal zone), and State: <b>Philadelphia 24, Penna.</b>
	6. Legal or voting residence (State):
	7. Office phone No.:
	8. Home phone:
	9. Place of birth (city and State; if born outside U. S., name city and country):
	10. Date of birth (month, day, year):
11. 10. Age last birthday:	11. <input type="checkbox"/> Male <input type="checkbox"/> Female
12. <input type="checkbox"/> Married <input type="checkbox"/> Single	13. Height without shoes: _____ feet _____ inches Weight: _____ pounds
14. Have you ever been employed by the Federal Government? <input type="checkbox"/> Yes <input type="checkbox"/> No If now employed by the Federal Government, give present grade and date of last change in grade:	

**DO NOT WRITE IN THIS BLOCK**  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	<input type="checkbox"/> Entered register:		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Submitted			
	<input type="checkbox"/> Returned			
Notations:		App. Review:		
Approved:				
OPTION	GRADE	EARNED RATING	PREFER- ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (cont.)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Disabl.	
			<input type="checkbox"/> Being investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column	YES	NO
15. (a) Would you accept short-term appointment if offered: 1 to 3 months? 3 to 6 months? 6 to 12 months?		
(b) Would you accept appointment if offered— in Washington, D. C.? _____ anywhere in the United States? _____ outside the United States? _____		

16. (a) If you will accept appointment in certain locations ONLY, give acceptable locations:

(d) What is the lowest entrance salary you will accept: \$ \_\_\_\_\_ per year.  
You will not be considered for positions paying less.

(e) If you are willing to travel, specify:  
 Occasionally  Frequently  Constantly

**16. EXPERIENCE.**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the space provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in Item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION	
Date of employment: (Month, year) From: _____ To present time	Exact title of your present position: _____
Place of employment (city and State): _____	Salary or earnings: Starting \$ _____ per _____ Present \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment and division:	Description of your work: _____
Kind of business or organization (e. g., wholesale etc., insurance agency, etc., of locks, etc.):	
Number and kind of employees supervised by you:	
Name and title of immediate supervisor:	
Reason for desiring to change employment:	

23. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION
1.		
2.		
3.		

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO	Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO
25. Are you a citizen of the United States?			25. Have you any physical defect or disability whatsoever? If your answer is "Yes," give complete details in Item 38.		
26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence? If your answer is "Yes," give complete details in Item 38.			26. (a) Were you ever in the United States Military or Naval Service during time of War?		
27. Within the past 12 months, have you habitually used intoxicating beverages to excess?			(b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation?		
28. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)? If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.			(c) Was service performed on an active full-time basis, with full military pay and allowances?		
29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position? If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.			(d)		
30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service? If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional, disability, or by reason of voluntary or involuntary separation after 3 years' service; amount of retirement pay, and under what retirement act; and rating if retired from military or naval service.			Date of entry or entries into service	Date of separation or separations	
31. Are you an official or employee of any State, Territory, county, or municipality? If your answer is "Yes," give details in Item 38.			Branch of service (Army, Navy, M. C., C. G., etc.)	Serial No. (If none, give grade or rating at time of separation.)	

IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.

Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO
37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?		
(b) Are you a disabled veteran?		
(c) Are you the unmarried widow of a veteran?		
(d) Are you the wife of a veteran who has service-connected disability?		

IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.

**THIS SPACE FOR USE OF APPOINTING OFFICE ONLY**

The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on \_\_\_\_\_ 19\_\_\_\_

Agency: \_\_\_\_\_ Title: \_\_\_\_\_

38. Space for detailed answers to other questions (indicate item numbers to which answers apply).

ITEM No.	ITEM No.

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

**FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 80).**

I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
 (Sign your name in INK (one given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name as "Mrs. Mary L. Doe.")

17. MILITARY EXPERIENCE.—In order to make the most effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

<p>(a) First Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p> <p>(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School): _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(b) What were you taught in First Special Service School? _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(d) What did you do during this duty assignment? _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>(a) Second Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p> <p>(c) Duty assignment after this training: _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(b) What were you taught in Second Special Service School? _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(d) What did you do during this duty assignment? _____</p> <p>_____</p> <p>_____</p> <p>_____</p>

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

18. EDUCATION.—Circle highest grade completed:  
 1 2 3 4 5 6 7 8 9 10 11 12  
 Mark (a) the appropriate box to indicate satisfactory completion of:  
 Elementary School  Junior High School  Senior High School

(a) Give name and location of last high school attended:  
 South Atlanta H.S. Parkville, Mo.

(b) Subjects studied in high school which apply to position desired:

(a) Name and Location of College or University	Major	Dates Attended		Years Completed		Degrees Conferred		Semester Hours Credit
		From—	To—	Day	Night	Title	Date	

(a) List Your Chief Undergraduate College Subjects	Semester Hours	(b) List Your Chief Graduate College Subjects	Semester Hours

(a) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:

Subjects Studied	Dates Attended		Years Completed	
	From—	To—	Day	Night

19. Indicate your knowledge of foreign languages:

	READING			SPEAKING			UNDERSTNG			
	Exp.	Good	Fair	Exp.	Good	Fair	Exp.	Good	Fair	

21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)  
 Yes  No Give kind of license and State:

First license or certificate (year): \_\_\_\_\_

Latest license or certificate (year): \_\_\_\_\_

(a) How was your knowledge of foreign languages acquired?  
 \_\_\_\_\_

(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation):  
 \_\_\_\_\_

22. Give any special qualifications not covered elsewhere in your application such as:  
 (a) your more important publications (do NOT submit copies unless requested)  
 (b) your patents or inventions  
 (c) public speaking and public relations experience  
 (d) membership in professional or scientific societies, etc.

20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, compass, key-punch, turret lathe, scientific or professional devices:  
 \_\_\_\_\_

Approximate number of words per minute in typing \_\_\_\_\_ shorthand \_\_\_\_\_

RECORDS OF 1921-1936

3. CONTINUED

Date of employment (Month, year) From: <u>April 1944</u> To: <u>June 1944</u> Place of employment (city and State):	Exact title of your position:	Salary or earnings: Starting \$ <u>1.00</u> per <u>hour</u> Final \$ <u>1.50</u> per <u>hour</u>
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:	Description of your work: <u>1. Supervision of repair work on</u> <u>machines at factory, the kind of all from</u> <u>about 1 hour &amp; 1/2 hours.</u> <u>2. Supervision of Tech. Control in</u> <u>factory.</u> <u>3. Letting out of a lot &amp; turning of record</u> <u>for letting out of a lot into the</u> <u>new water.</u>	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.):	Number and kind of employees supervised by you:	
Name and title of immediate supervisor:	Reason for leaving:	
Date of employment (Month, year) From: <u>July 1944</u> To: <u>March 1945</u> Place of employment (city and State):	Exact title of your position:	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:	Description of your work: <u>1. Supervision of</u> <u>machines in the factory, the kind of all</u> <u>in machine production of all</u> <u>machines of the kind of</u> <u>machines to be used in the</u> <u>factory for production of</u> <u>machines (Mach. Division) (Mach. Division)</u> <u>Production of all, production</u> <u>of</u>	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.):	Number and kind of employees supervised by you:	
Name and title of immediate supervisor:	Reason for leaving:	
Date of employment (Month, year) From: <u>June 1945</u> To: <u>Sept 1945</u> Place of employment (city and State):	Exact title of your position:	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:	Description of your work: <u>Supervision of a process for</u> <u>the kind of from black cases. This</u> <u>included not only the control of</u> <u>operation of apparatus but the</u>	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.):	Number and kind of employees supervised by you:	
Name and title of immediate supervisor:	Reason for leaving:	
Date of employment (Month, year) From: <u>Jan 1924</u> To: <u>May 1926</u> Place of employment (city and State):	Exact title of your position:	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:	Description of your work: <u>Production control work in</u> <u>the case of machinery</u> <u>worked from 1924 to</u> <u>March 1926 for the</u> <u>purpose of allowing the</u>	
Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.):	Number and kind of employees supervised by you:	
Name and title of immediate supervisor:	Reason for leaving:	

If more space is required, use a continuation sheet (Standard Form No. 64) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and occupation title. Attach to inside of this application.

24. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION

25. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO
-----	----

26. Are you a citizen of the United States?		27. Have you any physical defect or disability whatever? If your answer is "Yes," give complete details in Item 38.								
28. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence? If your answer is "Yes," give complete details in Item 38.		28. (a) Were you ever in the United States Military or Naval Service during time of War? (b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation? (c) Was service performed on an active full-time basis, with full military pay and allowances?								
29. Within the past 12 months, have you habitually used intoxicating beverages to excess?		<table border="1"> <thead> <tr> <th>Date of entry or entries into service</th> <th>Date of separation or separations</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td>Branch of service (Army, Navy, M. C., C. G., etc.)</td> <td>Grade (rank) or rating at time of separation</td> <td>Serial No.</td> </tr> </tbody> </table>	Date of entry or entries into service	Date of separation or separations			Branch of service (Army, Navy, M. C., C. G., etc.)	Grade (rank) or rating at time of separation	Serial No.	
Date of entry or entries into service	Date of separation or separations									
Branch of service (Army, Navy, M. C., C. G., etc.)	Grade (rank) or rating at time of separation	Serial No.								
30. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)? If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.		<p>IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.</p>								

31. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position?  
If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.

32. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service?  
If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional, disability, or by reason of voluntary or involuntary separation after 5 years' service; amount of retirement pay, and under what retirement act; and rating if retired from military or naval service.

33. Are you an official or employee of any State, Territory, county, or municipality?  
If your answer is "Yes," give details in Item 38.

34. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 5 months?  
If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.

35. Have you ever had a nervous breakdown?  
If your answer is "Yes," give complete details in Item 38.

36. Have you ever had tuberculosis?  
If your answer is "Yes," give complete details in Item 38.

37. Space for detailed answers to other questions (Indicate item numbers to which answers apply).

ITEM No.		ITEM No.	

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

**FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW, U. S. CODE, TITLE 18, SECTION 803.**  
I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
(Sign your name in INK (and given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name "Mrs. Mary L. Doe.")

Agency: \_\_\_\_\_ Title: \_\_\_\_\_

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

APPLICATION NO. ANNOUNCEMENT SELECTION NO.

1. Name of examination, or kind of position applied for:  
Chemist, P 3

2. Optional subject (if mentioned in examination announcement):

3. Place of employment applied for:

4. Mr. (First name) (Middle) (Maiden, if any) (Last)  
Mr. Henry Gold

5. Street and number of P. O. number:  
67-23 Kinderhook St.  
City or post office (including postal zone), and State:  
Phil. 111th St. N. Y. Panama

6. Legal or voting residence (State): Pennsylvania Home phone: New York, N.Y. 5-9249

7. Office phone No.: 5-9249 Home phone:  
New York, N.Y. 5-9249

8. Place of birth (city and State; if born outside U. S., name city and country):  
Basel, Switzerland

9. Date of birth (month, day, year): Dec. 12, 1918 10. Age last birthday: 26 11.  Male  Female

12.  Married  Single 13. Height without shoes: 5 feet 6 inches Weight: 142 pounds

14. Have you ever been employed by the Federal Government?  Yes  No  
If now employed by the Federal Government, give present grade and date of last change in grade:

**DO NOT WRITE IN THIS BLOCK**  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	<input type="checkbox"/> Entered register:		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Submitted			
	<input type="checkbox"/> Returned			
Notations:		App. Review:		
Approved:				
OPTION	GRADE	EARNED RATING	PREFER-ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (best)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Deaf	
			<input type="checkbox"/> Being investigated	
DETAILS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column

	YES	NO
15. (a) Would you accept short-term appointment if offered—		
1 to 3 months?		<input checked="" type="checkbox"/>
3 to 6 months?		<input checked="" type="checkbox"/>
6 to 12 months?		<input checked="" type="checkbox"/>
(b) Would you accept appointment, if offered—		
in Washington, D. C.?	<input checked="" type="checkbox"/>	
anywhere in the United States?		
outside the United States?		

16. (a) If you will accept appointment in certain locations ONLY, give acceptable locations:  
anywhere in the Eastern United States

(b) What is the lowest entrance salary you will accept: \$4,149 per year.  
You will not be considered for positions paying less.

(c) If you are willing to travel, specify:  
 Occasionally  Frequently  Constantly

16. EXPERIENCE.—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question (7 Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

**PRESENT POSITION**

Date of employment: (Month, year) From: <u>May, 1946</u> To present time	Exact title of your present position: <u>Chief Chemist</u>	Salary or earnings: Starting: \$5,000 per year Present: \$5,000 per year
Place of employment (city and State): <u>New York, N.Y.</u>	Description of your work: <u>1. Development of an analytical method for the determination of lead in leaded gasoline. This method involves the use of a leaded gasoline standard and the use of a leaded gasoline standard to compare the results of the analysis with the results of the analysis of the leaded gasoline standard. The method involves the use of a leaded gasoline standard and the use of a leaded gasoline standard to compare the results of the analysis with the results of the analysis of the leaded gasoline standard.</u>	
Name and address of employer (firm, organization, or person), if Federal name, department, bureau or establishment, and division: <u>29-29 1/2 Ave., Long Island City, N.Y.</u>	Kind of business or organization (e. g., wholesale, retail, insurance, agency, ship, or local, etc.): <u>Phillips 66</u>	
Number and kind of employees supervised by you: <u>1 (Assistant Chemist)</u>	Name and title of immediate supervisor:	
Reason for desiring to change employment: <u>I am a well established chemist and I wish to continue my work in this field.</u>		

17. MILITARY EXPERIENCE.—In order to make effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

<p>(a) First Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p>	<p>(b) What were you taught in First Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School):</p> <p>_____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(d) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>(e) Second Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p>	<p>(f) What were you taught in Second Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>(g) Duty assignment after this training:</p> <p>_____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(h) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

18. EDUCATION.—Circle highest grade completed:

1 2 3 4 5 6 7 8 9 10 11 12

Mark (x) the appropriate box to indicate satisfactory completion of:

Elementary School    Junior High School    Senior High School

(a) Give name and location of last high school attended: \_\_\_\_\_

(b) Subjects studied in high school which apply to position desired: \_\_\_\_\_

(c) Name and Location of College or University	Major	Dates Attended		Years Completed		Degree Conferred		Semester Hours Credit
		From—	To—	Day	Night	Title	Date	

(d) List Your Chief Undergraduate College Subjects	Semester Hours	List Your Chief Graduate College Subjects	Semester Hours

(e) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:	Subjects Studied	Dates Attended		Years Completed	
		From—	To—	Day	Night

19. Indicate your knowledge of foreign languages:

	READING			SPEAKING			UNDERSTANDING		
	Ex.	Good	Fair	Ex.	Good	Fair	Ex.	Good	Fair

21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)

Yes    No   Give kind of license and State: \_\_\_\_\_

First license or certificate (year): \_\_\_\_\_

Latest license or certificate (year): \_\_\_\_\_

(a) How was your knowledge of foreign languages acquired?

\_\_\_\_\_

(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation):

\_\_\_\_\_

22. Give any special qualifications not covered elsewhere in your application such as:

(a) your more important publications (do NOT submit copies unless requested)

(b) your patents or inventions

(c) public speaking and public relations experience

(d) membership in professional or scientific societies, etc.

\_\_\_\_\_

20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multibit, computer, key-punch, turret lathes, scientific or professional devices:

\_\_\_\_\_

Approximate number of words per minute in typing \_\_\_\_\_ shorthand \_\_\_\_\_

16. CONTINUED

Date of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: Supervisor of Technical Rec Control.	Salary or earnings: Starting \$ _____ per year Final \$ 3200 per year
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: 1. Carrying out of Experiment ental work aimed at bettering the yeast culture. yield of ale. In distillery. 2. Supervision of all general work in distillery, including setting up Sugar Refinery 1. Setting up of a laboratory and training of personnel for carrying out B.Cali tests in Raw Water 2. _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfr. of locks, etc.): _____	Name and title of immediate supervisor: _____	
Number and kind of employees supervised by you: _____	Reason for leaving: _____	
Date of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: Research Chemist	Salary or earnings: Starting \$ _____ per Final \$ _____ per
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: A Microbiological Assays for factors of the B complex in B <sub>2</sub> -Product Food yeast produced by Melasse Fermentation. a. Improvements in assay methods for detect factors of the B complex & development of several cultures suitable for improving the vitamin B <sub>2</sub> and protein content of products by thorough, distri and form acid	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfr. of locks, etc.): _____	Name and title of immediate supervisor: _____	
Number and kind of employees supervised by you: _____	Reason for leaving: _____	
Date of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: Chemist	Salary or earnings: Starting \$ _____ per Final \$ _____ per
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: Pilot plant work on the development of a process for the recovery of Gas from Stack Gas. This included: 1. Construction, design and operation of the Absorption and Desorption Unit E.g. 2. Development of rapid and more accurate method for detn of O <sub>2</sub> & H <sub>2</sub> O <sub>2</sub> conc. 3. Report Writing of Report covering all phases of Project.	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfr. of locks, etc.): _____	Name and title of immediate supervisor: _____	
Number and kind of employees supervised by you: _____	Reason for leaving: _____	
Date of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____	Salary or earnings: Starting \$ _____ per Final \$ _____ per
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: Routine analytical work in Sugar Refinery _____ _____ _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfr. of locks, etc.): _____	Name and title of immediate supervisor: _____	
Number and kind of employees supervised by you: _____	Reason for leaving: _____	

If more space is required, use a continuation sheet (Standard Form No. 58) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this location. 16-47280-8

100-9-9-9

22. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION
1		
2		
3		

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO
-----	----

25. Are you a citizen of the United States?

26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence?  
If your answer is "Yes," give complete details in Item 38.

27. Within the past 12 months, have you habitually used intoxicating beverages to excess?

28. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)?  
If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.

29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position?  
If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.

30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service?  
If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional, disability, or by reason of voluntary or involuntary separation after 5 years' service; amount of retirement pay, and under what retirement act; and rating if retired from military or naval service.

31. Are you an official or employee of any State, Territory, county, or municipality?  
If your answer is "Yes," give details in Item 38.

32. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 6 months?  
If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.

33. Have you ever had a nervous break-down?  
If your answer is "Yes," give complete details in Item 38.

34. Have you ever had tuberculosis?  
If your answer is "Yes," give complete details in Item 38.

35. Space for detailed answers to other questions (Indicate item numbers to which answers apply).

ITEM No.	ANSWER

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO
-----	----

36. Have you any physical defect or disability whatsoever?  
If your answer is "Yes," give complete details in Item 38.

36. (a) Were you ever in the United States Military or Naval Service during time of War?  
(b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation?  
(c) Was service performed on an active full-time basis, with full military pay and allowances?  
(d) Date of entry or entries into service: \_\_\_\_\_ Date of separation or separations: \_\_\_\_\_  
Branch of service (Army, Navy, M. C., C. G., etc.): \_\_\_\_\_ Serial No. (If none, give grade or rating at time of separation): \_\_\_\_\_

IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO
-----	----

37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?  
(b) Are you a disabled veteran?  
(c) Are you the unmarried widow of a veteran?  
(d) Are you the wife of a veteran who has service-connected disability?

IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.

**THIS SPACE FOR USE OF APPOINTING OFFICE ONLY**

The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on \_\_\_\_\_, 19\_\_\_\_.

Agency: \_\_\_\_\_ Title: \_\_\_\_\_

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

**FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 80).**  
I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
(Sign your name in INK (one given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name as "Mrs. Mary L. Doe.")

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

APPLICATION NO.	1. Name of examination, or kind of position applied for: <b>Chemist, P3</b>
	2. Optional subject (if mentioned in examination announcement):
	3. Place of employment applied for:
ANNOUNCEMENT	4. Mr. (First name) (Middle) (Maiden, if any) (Last) Mrs. <b>Harry Gold</b>
	5. Street and number or R. D. number: <b>6723 Kindred Street</b> City or post office (including postal zone), and State: <b>Philadelphia 24, Penna.</b>
SELECTION NO.	6. Legal or voting residence (State): <b>Pennsylvania</b>
	7. Office phone No.: <b>New York City 5-8492</b>
	8. Place of birth (city and State; if born outside U. S., name city and country): <b>Bern Switzerland</b>
	9. Date of birth (month, day, year): <b>Dec. 12, 1910</b>
	10. Age last birthday: <b>36</b>
	11. <input checked="" type="checkbox"/> Male <input type="checkbox"/> Female
	12. <input type="checkbox"/> Married <input checked="" type="checkbox"/> Single
	13. Height without shoes: <b>5 feet 6 inches</b>
	Weight: <b>140 pounds</b>
	14. Have you ever been employed by the Federal Government? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If now employed by the Federal Government, give present grade and date of last change in grade:

DO NOT WRITE IN THIS BLOCK  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	<input type="checkbox"/> Entered register
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Submitted	<input type="checkbox"/> Returned
Notations:		App. Review:
Approved:		
OPTION	GRADE	EARNED RATING
		PREFER- ENCE
		AUGM. RATING
		<input type="checkbox"/> 5 points (sent.)
		<input type="checkbox"/> 10 points
		<input type="checkbox"/> Wife or Widow
		<input type="checkbox"/> Dual
		<input type="checkbox"/> Being investi- gated
INITIALS AND DATE		

Indicate "Yes" or "No" answer by placing X in proper column	YES	NO	18. (c) If you will accept appointment in certain locations ONLY, give acceptable locations: <b>Anywhere in the Eastern United States</b>
18. (a) Would you accept short-term appointment if offered, for—			
1 to 3 months?		<input checked="" type="checkbox"/>	
3 to 6 months?		<input checked="" type="checkbox"/>	
6 to 12 months?		<input checked="" type="checkbox"/>	
(b) Would you accept appointment, if offered—			(d) What is the lowest entrance salary you will accept: <b>\$4,149</b> per year. You will not be considered for positions paying less.
In Washington, D. C.?	<input checked="" type="checkbox"/>		(e) If you are willing to travel, specify: <input type="checkbox"/> Occasionally <input checked="" type="checkbox"/> Frequently <input type="checkbox"/> Constantly
anywhere in the United States?		<input checked="" type="checkbox"/>	
outside the United States?		<input checked="" type="checkbox"/>	

**18. EXPERIENCE**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION		
Dates of employment: (Month, year) From: <b>May, 1946</b> To present time	Exact title of your present position: <b>Chief Chemist</b>	Salary or earnings: Starting, \$200 per year Present, \$200 per year
Place of employment (city and State): <b>New York, N.Y.</b>	Description of your work: <b>We have just completed:</b>	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <b>A. Brothman and Associates</b>	1. The development of an improved method for Methyl Methacrylate, Methyl Methacrylate and Acetylene.	
29-27 41st Ave., Long Island City	2. New Methods for the emulsion polymerization of Methyl Methacrylate and Polyethylene to Molding Powder.	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfr. of locks, etc.): <b>Chemical Process Engineers</b>	3. The extension of the basic Carbonyl-Acetylene Reaction to form Maleic Anhydride, 100% Lactic Acid, and Propargyl Alcoh.	
Number and kind of employees supervised by you: <b>3 Chemists</b>		
<b>1 Lab. Assistant</b>		
Name and title of immediate supervisor: <b>Mr. A. Brothman, Chief Engineer</b>		
Reason for desiring to change employment: <b>Financial Instability of Firm</b>		

29. **MILITARY EXPERIENCE.**—In order to make the most effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

<p>(a) First Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p>	<p>(b) What were you taught in First Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																			
<p>(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School): _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(d) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																			
<p>(a) Second Special Service School attended:</p> <p>Location: _____</p> <p>Dates attended (months, years): _____</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training: _____</p>	<p>(b) What were you taught in Second Special Service School?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																			
<p>(c) Duty assignment after this training: _____</p> <p>Dates of duty assignment (months, years): _____</p> <p>From: _____ To: _____</p>	<p>(d) What did you do during this duty assignment?</p> <p>_____</p> <p>_____</p> <p>_____</p>																																																			
<p>List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.</p>																																																				
<p>18. <b>EDUCATION.</b>—Circle highest grade completed:</p> <p style="text-align: center;">1 2 3 4 5 6 7 8 9 10 11 12</p> <p>Mark (x) the appropriate box to indicate satisfactory completion of:</p> <p><input type="checkbox"/> Elementary School    <input type="checkbox"/> Junior High School    <input type="checkbox"/> Senior High School</p>																																																				
<p>(a) Give name and location of last high school attended: _____</p> <p>(b) Subjects studied in high school which apply to position desired: _____</p>																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">(c) Name and Location of College or University</th> <th rowspan="2">Major</th> <th colspan="2">Dates Attended</th> <th colspan="2">Years Completed</th> <th colspan="2">Degrees Conferred</th> <th rowspan="2">Semester Hours Credit</th> </tr> <tr> <th>From—</th> <th>To—</th> <th>Day</th> <th>Night</th> <th>Title</th> <th>Date</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	(c) Name and Location of College or University	Major	Dates Attended		Years Completed		Degrees Conferred		Semester Hours Credit	From—	To—	Day	Night	Title	Date																			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">(d) List Your Chief Undergraduate College Subjects</th> <th rowspan="2">Semester Hours</th> <th colspan="2">List Your Chief Graduate College Subjects</th> <th rowspan="2">Semester Hours</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	(d) List Your Chief Undergraduate College Subjects	Semester Hours	List Your Chief Graduate College Subjects		Semester Hours													
(c) Name and Location of College or University			Major	Dates Attended		Years Completed		Degrees Conferred		Semester Hours Credit																																										
	From—	To—		Day	Night	Title	Date																																													
(d) List Your Chief Undergraduate College Subjects	Semester Hours	List Your Chief Graduate College Subjects		Semester Hours																																																
<p>(e) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency: _____</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Subjects Studied</th> <th colspan="2">Dates Attended</th> <th colspan="2">Years Completed</th> </tr> <tr> <th>From—</th> <th>To—</th> <th>Day</th> <th>Night</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Subjects Studied	Dates Attended		Years Completed		From—	To—	Day	Night																																										
Subjects Studied	Dates Attended		Years Completed																																																	
	From—	To—	Day	Night																																																
<p>19. Indicate your knowledge of foreign languages:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2"></th> <th colspan="3">READING</th> <th colspan="3">SPEAKING</th> <th colspan="3">UNDERSTNG</th> </tr> <tr> <th>Exp.</th> <th>Good</th> <th>Fab.</th> <th>Exp.</th> <th>Good</th> <th>Fab.</th> <th>Exp.</th> <th>Good</th> <th>Fab.</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table> <p>(a) How was your knowledge of foreign languages acquired? _____</p> <p>(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation): _____</p>		READING			SPEAKING			UNDERSTNG			Exp.	Good	Fab.	Exp.	Good	Fab.	Exp.	Good	Fab.																					<p>21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)</p> <p><input type="checkbox"/> Yes    <input type="checkbox"/> No    Give kind of license and State: _____</p> <p>First license or certificate (year): _____</p> <p>Latest license or certificate (year): _____</p> <p>22. Give any special qualifications not covered elsewhere in your application such as:</p> <p>(a) your more important publications (do NOT submit copies unless requested)</p> <p>(b) your patents or inventions</p> <p>(c) public speaking and public relations experience</p> <p>(d) membership in professional or scientific societies, etc.</p>												
		READING			SPEAKING			UNDERSTNG																																												
	Exp.	Good	Fab.	Exp.	Good	Fab.	Exp.	Good	Fab.																																											
<p>20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, comp-</p>																																																				

16. CONTINUED

Dates of employment (Month, year) From: <u>April, 1944</u> To: <u>Jan, 1946</u> Place of employment (city and State): <u>Philadelphia, Penna.</u>	Exact title of your position: <u>Supervisor of Technical Control</u>	Salary or earnings: Starting \$ <u>2100</u> per year Final \$ <u>2300</u> per year
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co. (Alcohol Division)</u>	Description of your work: <u>A. Fer Distillery</u> <u>1. Carrying out of experimental yeast cultures work aimed at bettering the yield of alcohol.</u> <u>2. Supervision of all control work in the dist.</u>	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): <u>Manuf. of Alcohol and By-Products</u>		
Number and kind of employees supervised by you: <u>3 Routing Chemists</u> <u>1 Lab Assistant</u> <u>1 Plant Operator</u>		
Name and title of immediate supervisor: <u>Mr. Nemesio Alvarez</u>		
Reason for leaving: <u>Closing down of the Alcohol Plant</u>		
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____		
Number and kind of employees supervised by you: _____		
Name and title of immediate supervisor: _____		
Reason for leaving: _____		
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____		
Number and kind of employees supervised by you: _____		
Name and title of immediate supervisor: _____		
Reason for leaving: _____		
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____		
Number and kind of employees supervised by you: _____		
Name and title of immediate supervisor: _____		
Reason for leaving: _____		

If more space is required, use a continuation sheet (blank Form No. 50) or a sheet of paper the same size as this page. Attach to inside of this book.

Write on each sheet your name, address, date of birth, and examination title.

Write on each sheet your name, address, date of birth, and examination title.

23. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION
1.		
2.		
3.		

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.

	YES	NO
25. Are you a citizen of the United States?		
26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence? If your answer is "Yes," give complete details in Item 38.		
27. Within the past 12 months, have you habitually used intoxicating beverages to excess?		
28. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)? If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.		
29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position? If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.		
30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service? If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional, disability, or by reason of voluntary or involuntary separation after 5 years' service; amount of retirement pay, and under what retirement act and rating if retired from military or naval service.		
31. Are you an official or employee of any State, Territory, county, or municipality? If your answer is "Yes," give details in Item 38.		
32. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 6 months? If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.		
33. Have you ever had a nervous break-down? If your answer is "Yes," give complete details in Item 38.		
34. Have you ever had tuberculosis? If your answer is "Yes," give complete details in Item 38.		

Indicate "Yes" or "No" answer by placing X in proper column.

	YES	NO
35. Have you any physical defect or disability whatsoever? If your answer is "Yes," give complete details in Item 38.		
36. (a) Were you ever in the United States Military or Naval Service during time of War? (b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation? (c) Was service performed on an active full-time basis, with full military pay and allowances? (d) Date of entry or entries into service: _____ Date of separation or separations: _____ Branch of service (Army, Navy, M. C., C. G., etc.) _____ Grade (rank) or rating at time of separation: _____ Serial No. _____		

IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.

Indicate "Yes" or "No" answer by placing X in proper column.

	YES	NO
37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon? (b) Are you a disabled veteran? (c) Are you the unmarried widow of a veteran? (d) Are you the wife of a veteran who has service-connected disability?		

IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.

**THIS SPACE FOR USE OF APPOINTING OFFICE ONLY**

The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on \_\_\_\_\_ 19\_\_\_\_

Agency: \_\_\_\_\_ Title: \_\_\_\_\_

38. Space for detailed answers to other questions (Indicate item numbers to which answers apply).

ITEM No.	ITEM No.

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

**FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 80).**  
I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
(Sign your name in INK (one given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name as "Mrs. Mary L. Doe.")

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

APPLICATION NO.	1. Name of examination, or kind of position applied for: <b>Chemist, P3</b>		
	2. Optional subject (if mentioned in examination announcement):		
	3. Place of employment applied for:		
	4. Mr. (First name) (Middle) (Maiden, if any) (Last) Mrs. Miss <b>Harry Gold</b>		
	5. Street and number or R. D. number: <b>6823 Kindred Street</b>		
	City or post office (including postal zone), and State: <b>Philadelphia 24, Penna.</b>		
	6. Legal or voting residence (State): <b>Pennsylvania</b>	7. Office phone No.: <b>Newtown 9-8899</b>	Home phone: <b>Pilgrimage</b>
	8. Place of birth (city and State; if born outside U. S., name city and country): <b>Bern Switzerland</b>		
	9. Date of birth (month, day, year): <b>Dec. 12, 1910</b>	10. Age last birthday: <b>36</b>	11. <input checked="" type="checkbox"/> Male <input type="checkbox"/> Female
	12. <input type="checkbox"/> Married <input checked="" type="checkbox"/> Single	13. Height without shoes: <b>5</b> feet <b>6</b> inches	Weight: <b>140</b> pounds
	14. Have you ever been employed by the Federal Government? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If now employed by the Federal Government, give present grade and date of last change in grade:		

DO NOT WRITE IN THIS BLOCK  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	Material <input type="checkbox"/> Submitted	Entered register: .....		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Returned			
Notations:		App. Review:		
.....		.....		
Approved:				
.....				
OPTION	GRADE	EARNED RATING	PREFER-ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (max.)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Deaf	
			<input type="checkbox"/> Being Investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column		YES	NO
15. (a) Would you accept short-term appointment if offered, for—			
1 to 3 months?			<input checked="" type="checkbox"/>
3 to 6 months?			<input checked="" type="checkbox"/>
6 to 12 months?			<input checked="" type="checkbox"/>
(b) Would you accept appointment if offered—			
in Washington, D. C.?		<input checked="" type="checkbox"/>	
anywhere in the United States?			<input checked="" type="checkbox"/>
outside the United States?			<input checked="" type="checkbox"/>
15. (c) If you will accept appointment in certain locations ONLY, give acceptable locations:			
		<b>Anywhere in the Eastern United States.</b>	
(d) What is the lowest entrance salary you will accept per year:		<b>\$4,149</b>	
		You will not be considered for positions paying less.	
(e) If you are willing to travel, specify:		<input type="checkbox"/> Occasionally <input checked="" type="checkbox"/> Frequently <input type="checkbox"/> Constantly	

16. EXPERIENCE.—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in Item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION		
Date of employment: (Month, year) From: <b>May, 1946</b> To present time	Exact title of your present position: <b>Chief Chemist</b>	Salary or earnings: Starting, \$ <b>2000</b> per year Present, \$ <b>2200</b> per year
Place of employment (city and State): <b>New York, N.Y.</b>	Description of your work: <b>1. The development of an improved synthesis for Methyl Methacrylate Monomer from Acetylene and Acetone.</b>	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <b>A. Brothman and Associates 29-28 41st Ave., Long Island City</b>	<b>2. New methods for the emulsion polymerization of Methyl Methacrylate and styrene to yield molding powders.</b>	
Kind of business or organization (e. g., wholesale, insurance agency, etc.): <b>Chemical Process Engineers</b>	<b>3. The extension of the basic carbonyl-acetylene reaction to form compounds such as Methyl Acrylate, Acetic Acid (1920), Propargyl Alcohol and Butadiene.</b>	
Number and kind of employees supervised by you: <b>2 Chemists 1 Lab. Assistant</b>	<b>(See Continuation Sheet No. 1)</b>	
Name and title of immediate supervisor: <b>Mr. A. Brothman, Chief Engineer</b>		
Reason for desiring to change employment: <b>Financial Instability of Firm.</b>		

(CONTINUED ON NEXT PAGE)

**17. MILITARY EXPERIENCE.**—In order to make the most effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (c) all important changes in duty assignment, showing dates of such assignment.

<p>(a) First Special Service School attended:</p> <p>Location:</p> <p>Dates attended (months, years):</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training:</p>	<p>(b) What were you taught in First Special Service School?</p>
<p>(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School):</p> <p>Dates of duty assignment (months, years):</p> <p>From: _____ To: _____</p>	<p>(d) What did you do during this duty assignment?</p>
<p>(e) Second Special Service School attended:</p> <p>Location:</p> <p>Dates attended (months, years):</p> <p>From: _____ To: _____</p> <p>Rating received at end of this training:</p>	<p>(f) What were you taught in Second Special Service School?</p>
<p>(g) Duty assignment after this training:</p> <p>Dates of duty assignment (months, years):</p> <p>From: _____ To: _____</p>	<p>(h) What did you do during this duty assignment?</p>

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

**18. EDUCATION.**—Circle highest grade completed:

1 2 3 4 5 6 7 8 9 10 11 12

Mark (x) the appropriate box to indicate satisfactory completion of:

Elementary School     Junior High School     Senior High School

(a) Give name and location of last high school attended:

(b) Subjects studied in high school which apply to position desired:

(c) Name and Location of College or University	Major
Univ. of Penna. (Phila.)	Chem.
Dressel Inst. Eye School (Phila.)	Opt.
Xavier University (Cincinnati)	Chem.

Dates Attended		Years Completed		Degree Conferred		Semester Hours Credit
From—	To—	Day	Night	Title	Date	

(d) List Your Chief Undergraduate College Subjects	Semester Hours

List Your Chief Graduate College Subjects	Semester Hours

(e) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:

Subjects Studied	Dates Attended		Years Completed	
	From—	To—	Day	Night

**19. Indicate your knowledge of foreign languages:**

	READING			SPEAKING			UNDERSTANDING		
	Exp.	Good	Fair	Exp.	Good	Fair	Exp.	Good	Fair

**21. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)**

Yes     No    Give kind of license and State:

First license or certificate (year):

Last license or certificate (year):

(a) How was your knowledge of foreign languages acquired?

(b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation):

**22. Give any special qualifications not covered elsewhere in your application such as:**

(a) your more important publications (do NOT submit copies unless requested)

(b) your patents or inventions

(c) public speaking and public relations experience

(d) membership in professional or scientific societies, etc.

**23. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multilith, computer, key-punch, turret lathe, scientific or professional devices:**

Approximate number of words per minute in typing \_\_\_\_\_ shorthand \_\_\_\_\_

18. CONTINUED

Dates of employment (Month, year) From: <u>April, 1944</u> To <u>Jan., 1946</u> Place of employment (city and State): <u>Philadelphia, Penna.</u> Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co.</u> <u>(Alcohol Division)</u> Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): <u>Manuf. of Alcohol and By-Products</u> Number and kind of employees supervised by you: <u>2 Routine Chemists</u> <u>2 Lab. Assistants</u> <u>1 Plant Operator</u> Name and title of immediate supervisor: <u>Mr. Nemesis Alvarez</u> Reason for leaving: <u>closing down of the Alcohol Plant</u>	Exact title of your position: <u>Supervisor of Technical</u> <u>Cont.</u> Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: <u>Jan., 1941</u> To <u>March, 1944</u> Place of employment (city and State): <u>Philadelphia, Penna.</u> Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co.</u> <u>(Alcohol Division), 1037 N. Del.</u> Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): <u>Manuf. of Alcohol and By-Products</u> Number and kind of employees supervised by you: <u>None</u> Name and title of immediate supervisor: <u>Dr. Gustave T. Reich Director</u> Reason for leaving: <u>Same firm as above; the nature of job changed</u>	Exact title of your position: Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: _____ To _____ Place of employment (city and State): Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): Number and kind of employees supervised by you: Name and title of immediate supervisor: Reason for leaving:	Exact title of your position: Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:
Dates of employment (Month, year) From: <u>April, 1933</u> To <u>Sept., 1938</u> Place of employment (city and State): <u>Philadelphia, Penna.</u> Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co.</u> <u>1037 N. Delaware Ave.</u> Kind of business or organization (e. g., wholesale silk, insurance agency, mfg. of locks, etc.): <u>Sugar Refining</u> Number and kind of employees supervised by you: <u>None</u> Name and title of immediate supervisor: <u>Dr. Gustave T. Reich Director</u> Reason for leaving: <u>Leave of Absence to obtain a B.S. degree</u>	Exact title of your position: Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____ Description of your work:

If more space is required, use a continuation sheet (Standard Form No. 58) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and occupation title. Attach to back of this sheet.

see 25-9-9

23. REFERENCES - List three persons living in the United States or Territories of the United States who are NOT related to you and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under item 16 (EXPERIENCE).

BUSINESS OR OCCUPATION	FULL NAME	
	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

25. Are you a citizen of the United States?  YES  NO

26. Do you advocate or have you ever advocated, or are you now advocating the overthrow of the Government of the United States by force or violence?  YES  NO

27. Within the past 12 months, have you habitually used intoxicating beverages to excess?  YES  NO

28. Since your 16th birthday, have you ever been convicted, or fined or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)?  YES  NO

29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position?  YES  NO

30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service?  YES  NO

31. Are you an official or employee of any State, Territory, county, or municipality?  YES  NO

32. Do you have any U. S. Government employ in a civilian capacity only or have you had such employ in the past 6 months?  YES  NO

33. Have you ever had a nervous breakdown?  YES  NO

34. Have you ever had tuberculosis?  YES  NO

35. Space for detailed answers to other questions (indicate item numbers to which answers apply).

36. THIS SPACE FOR USE OF APPOINTING OFFICE ONLY. The information contained in the answers to Question 35 above has been verified by comparison with the discharge certificate on \_\_\_\_\_.

37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?  YES  NO

38. (b) Are you a disabled veteran?  YES  NO

39. (c) Are you the unmarried widow of a veteran?  YES  NO

40. (d) Are you the wife of a veteran who has service-connected disability?  YES  NO

41. (e) AND YOU IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES" - ATTACH TO THIS APPLICATION WITH NECESSARY PROOF SPLICED THEREIN. TOGETHER WITH THE NECESSARY PROOF SPLICED THEREIN.

42. (f) THIS SPACE FOR USE OF APPOINTING OFFICE ONLY. The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate on \_\_\_\_\_.

43. (g) SIGNATURE OF APPLICANT (Sign your name in INK (one given name initial or initials and surname) and if married use your own given name as "Mrs. Mary L. Doe").

44. (h) DATE (Date of application)

45. (i) FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE TITLE 18, SECTION 801). Write on each sheet your name, address, date of birth, and examination site. Attach to inside of this application.

46. (j) SIGNATURE OF APPLICANT (Sign your name in INK (one given name initial or initials and surname) and if married use your own given name as "Mrs. Mary L. Doe").

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

APPLICATION NO. ANNOUNCEMENT SELECTION NO.

1. Name of examination, or kind of position applied for:  
**Chemist, Pb.**

2. Optional subject (if mentioned in examination announcement):

3. Place of employment applied for:  
**Philadelphia Quartermaster Depot**

4. Mr. (First name) (Middle) (Maiden, if any) (Last)  
**Harry Gold**

5. Street and number or R. D. number:  
**6223 Kindred Street**  
City or post office (including postal zone), and State:  
**Philadelphia 24, Penna.**

6. Legal or voting residence (State):  
**Pennsylvania**

7. Office phone No.:  
**Ne 9-6643**

8. Home phone:  
**PI 9-1177**

9. Place of birth (city and State, if born outside U. S., same city and country):  
**Bern, Switzerland**

10. Date of birth (month, day, year):  
**Dec. 12, 1910.**

11. Age last birthday:  
**36**

12.  Male  
 Female

13.  Married  
 Single

14. Height without shoes: **5** feet **6** inches  
Weight: **160** pounds

15. Have you ever been employed by the Federal Government?  Yes  No  
If now employed by the Federal Government, give present grade and date of last change in grade:

**DO NOT WRITE IN THIS BLOCK**  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Submitted.	Entered register:		
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Returned			
Notations:		App. Review:		
		Approved:		
OPTION	GRADE	EARNED RATING	PREFER- ENCE	AUGM. RATING
			<input type="checkbox"/> 3 points (max.)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Deaf	
			<input type="checkbox"/> Being investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answer by placing X in proper column

	YES	NO
16. (a) Would you accept short-term appointment if offered, for—		
1 to 3 months?		<input checked="" type="checkbox"/>
3 to 6 months?		<input checked="" type="checkbox"/>
6 to 12 months?		<input checked="" type="checkbox"/>
(b) Would you accept appointment, if offered—		
in Washington, D. C.?	<input checked="" type="checkbox"/>	
anywhere in the United States?		<input checked="" type="checkbox"/>
outside the United States?		<input checked="" type="checkbox"/>

18. (a) If you will accept appointment in certain locations ONLY, give acceptable locations:  
**Anywhere in the Eastern United States.**

(b) What is the lowest entrance salary you will accept: **\$4902.00** per year.  
You will not be considered for positions paying less.

(c) If you are willing to travel, specify:  
 Occasionally  Frequently  Constantly

**16. EXPERIENCE.**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the spaces provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in Item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

PRESENT POSITION		
Date of employment: (Month, year) From: <b>May, 1946</b> To present time	Exact title of your present position: <b>Chief Chemist</b>	Salary or earnings: Starting, <b>\$5200 per year</b> Present, <b>\$5200 per year</b>
Place of employment (city and State): <b>New York, N.Y.</b>	Description of your work:	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <b>A. Brothman and Associates</b> <b>29-25 41st Ave., Long Island City.</b>		
Kind of business or organization (e. g., wholesale alk, insurance agency, mfg. of locks, etc.): <b>Chemical</b>		
Number and kind of employees supervised by you: <b>2 Chemists</b>		
Name and title of immediate supervisor: <b>Mr. A. Brothman, Chief Engineer</b>		
Reason for desiring to change employment:		

3. CONTINUED

Dates of employment (Month, year) From: <u>April, 1944</u> To: <u>Feb., 1944</u> Place of employment (city and State): <u>Philadelphia, Penna.</u>	Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: <u>Pennsylvania Sugar Co.</u> <u>(Alcohol Division)</u>	Description of your work: _____ _____ _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____	_____ _____	
Number and kind of employees supervised by you: _____	_____ _____	
Name and title of immediate supervisor: _____	_____ _____	
Reason for leaving: _____	_____ _____	
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____ _____ _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____	_____ _____	
Number and kind of employees supervised by you: _____	_____ _____	
Name and title of immediate supervisor: _____	_____ _____	
Reason for leaving: _____	_____ _____	
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____ _____ _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____	_____ _____	
Number and kind of employees supervised by you: _____	_____ _____	
Name and title of immediate supervisor: _____	_____ _____	
Reason for leaving: _____	_____ _____	
Dates of employment (Month, year) From: _____ To: _____ Place of employment (city and State): _____	Exact title of your position: _____ _____ _____	Salary or earnings: Starting \$ _____ per _____ Final \$ _____ per _____
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division: _____	Description of your work: _____ _____ _____	
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.): _____	_____ _____	
Number and kind of employees supervised by you: _____	_____ _____	
Name and title of immediate supervisor: _____	_____ _____	
Reason for leaving: _____	_____ _____	

If more space is required, use a continuation sheet (Standard Form No. 58) or a sheet of paper the same size as this page. Write on each sheet your name, address, date of birth, and occupation title. Attach to inside of this application.

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**17. MILITARY EXPERIENCE**—In order to make the most effective placements of war veterans, detailed information is needed about the training and experience they have acquired in the Armed Services. Fill in the appropriate space for each service school you have attended. If you attended no special or technical schools while in the service, write in Item (a) "No attendance at service schools" and indicate in Item (b) all important changes in duty assignment, showing dates of such assignment.

(a) First Special Service School attended:		(b) What were you taught in First Special Service School?	
Location:			
Dates attended (months, years):			
From: To:			
Rating received at end of this training:			
(c) Duty assignment or rating after this training (give all important changes in duty assignment whether or not you attended a Service School):		(d) What did you do during this duty assignment?	
Dates of duty assignment (months, years):			
From: To:			
(e) Second Special Service School attended:		(f) What were you taught in Second Special Service School?	
Location:			
Dates attended (months, years):			
From: To:			
Rating received at end of this training:			
(g) Duty assignment after this training:		(h) What did you do during this duty assignment?	
Dates of duty assignment (months, years):			
From: To:			

List on a separate sheet of paper any additional experience, training, service, or special duty assignments during military service or hospitalization.

**18. EDUCATION**—Circle highest grade completed:  
 1 2 3 4 5 6 7 8 9 10 11 12  
 Mark (x) the appropriate box to indicate satisfactory completion of:  
 Elementary School  Junior High School  Senior High School

(a) Name and Location of College or University	Major
(d) List Your Chief Undergraduate College Subjects	Semester Hours

(a) Give name and location of last high school attended:

(b) Subjects studied in high school which apply to position desired:

Date Attended	Years Completed	Degree Conferred		Semester Hours Credit
		Title	Date	
From—	To—	Day	Night	

(c) Other training, such as vocational, business, study courses given through the Armed Forces Institute (show name and location of school), or "in-service training" in a Federal agency:

Subjects Studied	Date Attended		Years Completed	
	From—	To—	Day	Night

18. Indicate your knowledge of foreign languages:	READING			SPEAKING			UNDERSTANDING		
	Exp.	Good	Pub.	Exp.	Good	Pub.	Exp.	Good	Pub.

19. Are you now or have you ever been a licensed or certified member of any trade or profession (such as pilot, electrician, radio operator, teacher, lawyer, CPA, etc.)  
 Yes  No Give kind of license and State:

First license or certificate (year):

Latest license or certificate (year):

(a) How was your knowledge of foreign languages acquired?  
 (b) If you have traveled or resided in any foreign countries, indicate (1) names of countries, (2) dates and length of time spent there and (3) reason or purpose (e. g., business, education, recreation):

20. Give any special qualifications not covered elsewhere in your application such as:  
 (a) your more important publications (do NOT submit copies unless requested)  
 (b) your patents or inventions  
 (c) public speaking and public relations experience  
 (d) membership in professional or scientific societies, etc.

20. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, compass, key-punch, turret lathe, scientific or professional devices:

21. List any special skills you possess and machines and equipment you can use, such as operation of short-wave radio, multith, compass, key-punch, turret lathe, scientific or professional devices:

# APPLICATION FOR FEDERAL EMPLOYMENT

**INSTRUCTIONS.**—Answer every question below clearly and completely. Typewrite or print in INK. If you are applying for a specific United States Civil Service examination, read the examination announcement carefully and follow all directions. Mail this application to the office named in the announcement. Be sure to mail to the same office any other forms required by the announcement. Notify the office with which you file this application of any change in your address.

**APPLICATION NO.**

1. Name of examination, or kind of position applied for:  
Chemist, P3

2. Optional subject (if mentioned in examination announcement):

3. Place of employment applied for:

4. Mr. (First name) (Middle) (Maiden, if any) (Last)  
Harry Gold

5. Street and number or R. D. number:

City or post office (including postal zone), and State:

6. Legal or voting residence (State): I. Office phone No.: Home phone:

7. Place of birth (city and State; if born outside U. S., name city and country):

8. Date of birth (month, day, year): 10. Age last birthday: 11.  Male  Female

12.  Married  Single 13. Height without shoes: \_\_\_\_\_ inches Weight: \_\_\_\_\_ pounds

14. Have you ever been employed by the Federal Government?  Yes  No  
If now employed by the Federal Government, give present grade and date of last change in grade:

**ANNOUNCEMENT**

**SECTION NO.**

**DO NOT WRITE IN THIS BLOCK**  
For Use of Civil Service Commission Only

<input type="checkbox"/> Appor.	<input type="checkbox"/> Material	Entered register:
<input type="checkbox"/> Non-appor.	<input type="checkbox"/> Submitted	
	<input type="checkbox"/> Returned	

Notations: \_\_\_\_\_

App. Reviews: \_\_\_\_\_

Approved:

OPTION	GRADE	EARNED RATING	PREFER-ENCE	AUGM. RATING
			<input type="checkbox"/> 5 points (best)	
			<input type="checkbox"/> 10 points	
			<input type="checkbox"/> Wife or Widow	
			<input type="checkbox"/> Discl.	
			<input type="checkbox"/> Being investigated	
INITIALS AND DATE				

Indicate "Yes" or "No" answers by placing X in proper column	YES	NO	18. (a) If you will accept appointment in certain locations ONLY, give acceptable locations
18. (a) Would you accept short-term appointment if offered, for— 1 to 3 months? _____ 3 to 6 months? _____ 6 to 12 months? _____			
(b) Would you accept appointment, if offered— in Washington, D. C.? _____ anywhere in the United States? _____ outside the United States? _____			(c) What is the lowest advance salary you will accept: \$ _____ per year. You will not be considered for positions paying less. (d) If you are willing to travel, specify: <input type="checkbox"/> Occasionally <input type="checkbox"/> Frequently <input type="checkbox"/> Constantly

**18. EXPERIENCE.**—You are requested to furnish all information asked for below in sufficient detail to enable the Civil Service Commission and the appointing officers of agencies to determine your qualifications for the position for which you are applying. In the space provided below describe EVERY position you have held. Use a separate block for EACH position. You may also include any pertinent religious, civic, welfare or organizational activity which you have performed, either with or without compensation, showing the number of hours per week and weeks per year in which you were engaged in such activity. Start with your PRESENT position and work back, accounting for all periods of unemployment. Explain clearly the principal tasks which you performed in each position. Describe your experience in the Armed Services in question 17 (Military Experience).  
(a) If you were ever employed in any position under a name different from that shown in Item 4 of this application, give under "Description of your work" for each position, the name used.  
(b) If you have never been employed or are now unemployed, indicate that fact in the space provided below for "Present Position."

**PRESENT POSITION**

Dates of employment: (Month, year) From: _____ To present time	Exact title of your present position:	Salary or earnings: Starting, \$ _____ per _____ Present, \$ _____ per _____
Place of employment (city and State):	Description of your work:	
Name and address of employer (firm, organization, or person). If Federal, name department, bureau or establishment, and division:		
Kind of business or organization (e. g., wholesale sll, insurance agency, mfg. of locks, etc.):		
Number and kind of employees supervised by you:		
Name and title of immediate supervisor:		
Reason for desiring to change employment:		

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23. REFERENCES.—List three persons living in the United States or Territories of the United States who are NOT in your line of business and who have definite knowledge of your qualifications and fitness for the position for which you are applying. Do not repeat names of supervisors listed under Item 16 (EXPERIENCE).

FULL NAME	BUSINESS OR HOME ADDRESS (Give complete address, including street and number)	BUSINESS OR OCCUPATION

24. May inquiry be made of your present employer regarding your character, qualifications, etc.?  Yes  No

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO	Indicate "Yes" or "No" answer by placing X in proper column.	YES	NO
-----	----	--	-----	----

25. Are you a citizen of the United States?

26. Do you advocate or have you ever advocated, or are you now or have you ever been a member of any organization that advocates the overthrow of the Government of the United States by force or violence?  
If your answer is "Yes," give complete details in Item 38.

27. Within the past 12 months, have you habitually used intoxicating beverages to excess?

28. Since your 16th birthday, have you ever been convicted, or fined, or imprisoned, or placed on probation, or have you ever been ordered to deposit bail, for the violation of any law, police regulation or ordinance (excluding minor traffic violations for which a fine of \$25 or less was imposed)?  
If your answer is "Yes," list all such cases under Item 38 below. Give in each case (1) the date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed your fingerprints will be taken.

29. Have you ever been discharged or forced to resign for misconduct or unsatisfactory service from any position?  
If your answer is "Yes," give in Item 38 the name and address of employer, date, and reason in each case.

30. Do you receive an annuity from the U. S. or D. C. Government under any retirement act or any pension or other compensation for military or naval service?  
If your answer is "Yes," give in Item 38 reason for retirement, that is, age, optional disability, or by reason of voluntary or involuntary separation after 5 years' service, amount of retirement pay, and under what retirement act, and rating if retired from military or naval service.

31. Are you an official or employee of any State, Territory, county, or municipality?  
If your answer is "Yes," give details in Item 38.

32. Does the U. S. Government employ in a civilian capacity any relative of yours (by blood or marriage) with whom you live or have lived within the past 6 months?  
If your answer is "Yes," show in Item 38 for EACH such relative: (1) full name; (2) present address; (3) relationship; (4) department or agency by whom employed, and (5) kind of appointment.

33. Have you ever had a nervous breakdown?  
If your answer is "Yes," give complete details in Item 38.

34. Have you ever had tuberculosis?  
If your answer is "Yes," give complete details in Item 38.

35. Have you any physical defect or disability whatsoever?  
If your answer is "Yes," give complete details in Item 38.

36. (a) Were you ever in the United States Military or Naval Service during time of War?  
(b) Is the word "honorable" or the word "satisfactory" used in your discharge or separation papers to show the type of your discharge or separation?  
(c) Was service performed on an active full-time basis, with full military pay and allowances?  
(d) Date of entry or entries into service: \_\_\_\_\_ Date of separation or separations: \_\_\_\_\_  
Branch of service (Army, Navy, M. C., C. G., etc.): \_\_\_\_\_ Grade (rank) or rating at time of separation: \_\_\_\_\_ Serial No.: \_\_\_\_\_

IF YOUR ANSWERS TO THIS QUESTION (No. 36) INDICATE THAT YOU ARE ENTITLED TO VETERAN PREFERENCE, SUCH PREFERENCE WILL BE CREDITED IN THE EXAMINATION. IF APPOINTED, YOU WILL BE REQUIRED TO FURNISH TO THE APPOINTING OFFICER, PRIOR TO ENTRY ON DUTY, OFFICIAL EVIDENCE OF SEPARATION FROM YOUR LATEST PERIOD OF ACTIVE SERVICE IN THE ARMED FORCES OF THE UNITED STATES DURING TIME OF WAR. DO NOT SUBMIT PROOF OF DISCHARGE OR SEPARATION WITH THIS APPLICATION.

Indicate "Yes" or "No" answer by placing X in proper column.

YES	NO
-----	----

37. (a) If you served in the U. S. Military or Naval Service during peacetime ONLY, did you participate in a campaign or expedition and receive a campaign badge or service ribbon?

(b) Are you a disabled veteran?  
(c) Are you the unmarried widow of a veteran?  
(d) Are you the wife of a veteran who has service-connected disability?

IF YOUR ANSWER TO QUESTION 37 (a), (b), (c), OR (d) IS "YES," AND YOU WISH TO CLAIM VETERAN PREFERENCE, ATTACH TO THIS APPLICATION VETERAN PREFERENCE CLAIM (CIVIL SERVICE COMMISSION FORM 14) TOGETHER WITH THE NECESSARY PROOF SPECIFIED THEREIN.

THIS SPACE FOR USE OF APPOINTING OFFICE ONLY

The information contained in the answers to Question 36 above has been verified by comparison with the discharge certificate of \_\_\_\_\_

Agency: \_\_\_\_\_ Title: \_\_\_\_\_

38. Space for detailed answers to other questions (Indicate item numbers to which answers apply).

ITEM No.	ANSWER	ITEM No.	ANSWER

If more space is required, use paper the same size as this page. Write on each sheet your name, address, date of birth, and examination title. Attach to inside of this application.

FALSE STATEMENT ON THIS APPLICATION IS PUNISHABLE BY LAW (U. S. CODE, TITLE 18, SECTION 80). I certify that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Date: \_\_\_\_\_ Signature of applicant: \_\_\_\_\_  
 Sign your name in full (use given name, initial or initials, and surname). If female, prefix Miss or Mrs. and if married use your own given name or "Mrs. Mary (Doa) \_\_\_\_\_"

IV. **SALARY AND WORKWEEK:** Salary is based on the standard Federal workweek of 40 hours. Additional compensation is provided for any authorized overtime worked in excess of the 40-hour week. The salary range for each grade of these positions is given below. For employees whose services meet given standards of efficiency, the entrance salary is increased by the amount shown in the table, following the completion of each 18 months of service, until the maximum rate for the grade is reached.

Grade of Position	Basic Entrance Salary	Periodic Increases	Maximum Basic Salary
P-4	\$4902.00	\$250.80	\$5905.20
P-5	\$5905.20	\$239.40	\$6862.80
P-6	\$7102.20	\$239.40	\$8059.80

Federal employees serving in positions which are in the classified civil service whose salaries have been increased above the basic entrance salary for these positions may be permitted to retain the benefits of their salary increases (but not beyond the maximum salary for the grade to which appointed), in accepting an appointment from this register, or in having a non-status appointment converted to an appointment with civil service status. All basic salaries are subject to a deduction of 5 per cent for retirement purposes.

V. **DUTIES:** The overall Quartermaster Program is concerned with the design, development, production and testing of military items in order that military performance requirements may be met. Chemists appointed to these positions will assume full technical responsibility for a complete research, development or technological project or projects or of one or more phases of the chemical problems related to the project. This may include, for example, one or more of the following:

1. Directing, coordinating, or conducting extensive fundamental research in one or more of the specialized fields of chemistry to determine basic principles underlying physical, chemical, and biological phenomena of Quartermaster interest.
2. Developing and improving functional finishes designed to enhance the durability and utility of textile items.
3. Directing, designing, and supervising the development and/or modification of chemical test procedures; preparing written reports presenting such information as is known to be up-to-date including description of test methods, evaluation of equipment used and suggestion of additional phases which appear worthy of investigation in arriving at ultimate objective.
4. Preparing specifications and/or production standards of a chemical nature for a variety of Quartermaster items.
5. Directing and supervising the carrying out of difficult analyses by chemical and physico-chemical methods of a large variety of products to determine their acceptability.
6. Initiating, designing, and directing a comprehensive chemical research project carried out in a number of research laboratories or universities leading to the solution of a problem of Quartermaster interest.

**NOTE:** Positions to be filled in other Federal agencies in the Third U. S. Civil Service Region involve comparable duties of a research and development nature.

Issued: 1-8-47

Announcement No. 3-3 (1947)  
(Unassembled)  
Forms: 57 & 5001-ABC

UNITED STATES CIVIL SERVICE COMMISSION  
BOARD OF UNITED STATES CIVIL SERVICE EXAMINERS  
PHILADELPHIA QUARTERMASTER DEPOT  
2800 S. 20TH ST., PHILADELPHIA 45, PA.

Announces an open competitive examination for the position of

CHEMIST

P-4 \$4,902.00 A YEAR

P-5 \$5,905.20 A YEAR

P-6 \$7,102.20 A YEAR

For work in the following fields of chemistry:

Analytical Chemistry                      Organic Chemistry  
Biochemistry                                Physical Chemistry  
Advanced Inorganic Chemistry

THIS EXAMINATION IS ANNOUNCED UNDER THE CIVIL SERVICE  
RULES FOR PROBATIONAL (PERMANENT) APPOINTMENT  
AND IS OPEN TO THE GENERAL PUBLIC.

- I. **CLOSING DATE:** Applications must be on file with the Executive Secretary, Board of U. S. Civil Service Examiners, Philadelphia Quartermaster Depot, 2800 S. 20th Street, Philadelphia 45, Pa., not later than the close of business on February 6, 1947.
- II. **PLACE OF EMPLOYMENT:** The employment lists resulting from this examination will be used for filling positions in the Philadelphia Quartermaster Depot and in other Federal Agencies in Pennsylvania and Delaware having similar vacancies, unless it is found desirable in the interest of the service to fill any position by reinstatement, transfer, or promotion.
- III. **EMPLOYMENT LISTS:** Separate employment lists will be established in the fields of Chemistry listed above on the basis of special courses of study successfully completed, special training, and experience in the field of Chemistry. These lists will be further subdivided for certification purposes according to the varying types of specific vacancies to be filled.

Restriction of certification for highly technical positions. For those positions involving highly complicated or fundamental scientific research or similar difficult scientific duties, certification may be restricted to those eligibles who show the successful completion of a full college education in Chemistry in a college or university of recognized standing.

Code: P-1312-0

The difficulty of the work performed, the responsibility assumed and the degree of supervision exercised will vary with the grade of the position, increasing progressively in the higher grades.

## VI. REQUIREMENTS

### Education and Experience

Applicants must have successfully completed one of the following:

1. A full 4-year course, in a college or university of recognized standing, leading to a bachelor's degree of chemistry. This study must have included courses in chemistry consisting of lectures, recitations and appropriate practical laboratory work totaling at least 30 semester hours; or
2. Courses in chemistry, in a college or university of recognized standing, consisting of lectures, recitations and appropriate practical laboratory work totaling at least 30 semester hours; plus additional appropriate experience or education which, when combined with the 30 semester hours in chemistry, will total 4 years of education and experience and give the applicant the substantial equivalent of a 4-year college course. The following are types of experience which will be accepted in combination with education to complete the 4-year requirement:

Subprofessional and higher grade laboratory work, production or manufacturing involving technical duties, and similar types of work which provide a means of obtaining a working knowledge of the theory and application of the scientific principles of a physical or natural science or of engineering.

Experience in patent examining, or in abstracting, editing, or translating reports of scientific literature.

Research experience in such fields as physics, chemistry, engineering or biology, which included the analysis of data and the preparation of reports.

Chemical work of a professional grade, such as that described in the typical duties of the positions to be filled from this examination.

In either 1 or 2 above, the course must have included analytical chemistry, both quantitative and qualitative, and in addition, any two of the following: (a) Advanced Inorganic Chemistry; (b) Biochemistry; (c) Organic Chemistry; (d) Physical Chemistry. All of these courses must have been acceptable for credit toward the completion of a standard 4-year professional curriculum leading to a bachelor's degree in chemistry at a college or university of recognized standing.

Additional Experience

In addition to the above, applicants must show experience of a progressively higher level as follows:

For P-4 Grade - At least three years of responsible, progressive, professional experience in chemistry including two years of difficult and important research or scientific investigative work in a specialized branch of chemistry which has demonstrated the applicant's initiative, resourcefulness and ability to perform work, at the professional level, under only general supervision.

For P-5 Grade - At least four years of broad, progressive and responsible professional experience in chemistry, at least two years of which must have demonstrated either (a) ability to organize, direct and coordinate research or similar difficult work of an important character in a specialized branch of chemistry, or (b) marked capacity for original research in a specialized branch of chemistry.

For P-6 Grade - Applicants must have had four years of broad and progressive experience in chemistry. At least two years of this experience must have consisted of very important and responsible work in one of the specialized branches of chemistry and must have been on a level equivalent to or above that of the P-5 grade. The total experience must show a thorough and wide knowledge of the principles of chemistry and their application and either (a) ability of a high order in the organization, direction and coordination of important research or other activities in chemistry, or (b) productive research in chemistry demonstrating by inventions, new theory developed or extended, or through published scientific documents that the applicant is a person who has achieved widespread recognition in the scientific world.

Substitution of Graduate Study for Experience - Graduate study in chemistry successfully completed in a college or university of recognized standing may be substituted year for year for the professional experience prescribed for these positions up to a maximum of two years of experience. Applicants who have successfully completed study fully equivalent to the requirements for a Master's degree may substitute such study for one year of general experience. In order to substitute graduate study for two years of experience, applicants must have received the Ph. D. degree which may be substituted for the general experience prescribed for all grades. For the P-4 grade, the Ph. D. degree may be substituted for one year of the prescribed 2 years of experience in a specialized branch of chemistry. For the P-5 and P-6 grades, however, the Ph. D. degree may not be substituted for any part of the prescribed 2 years of experience in a specialized branch of chemistry.

Examples of Qualifying Experience - As a project director or group leader with full technical responsibility for the work of his subordinates, or as an individual worker or member of a group, plans and conducts theoretical or laboratory investigations in fundamental or applied chemistry such as the following:

1. Conducting investigations of the relationships between molecular structure, chemical composition, and physical properties of organic plastics and the determination of chemical, thermal, optical, permanence and mechanical properties of plastics.
2. Conducting research in connection with the isolation of biologically active compounds from plant and animal tissues, bacteria or fungi, and the study of chemical and physical changes induced in textile items by micro-organisms.
3. Conducting research to determine the chemical and physical properties of metallic and/or non-metallic protective coatings and materials employed in such coatings and the development of new and improved methods of testing such materials.
4. Conducting research in the field of plastic filaments, films, and coated fabrics with the objective of developing new items of equipment and clothing or of improving existing items of equipment and clothing.
5. Conducting investigations in organic synthesis and structural determinations of organic compounds such as carbohydrates, protein, enzymes, heterocyclic nitrogen compounds, etc.
6. Developing new instruments or methods of chemical and physico-chemical macro or micro-analysis; the use of spectrophotometry, spectroscopy, X-ray diffraction, electron microscopy, potentiometry, or polarography.
7. Conducting research or development work on the application of textile finishes and protective coatings to textile fabrics and other materials.
8. Conducting studies on degradation and changes of natural and synthetic textile fibers, synthetics and other materials caused by weather, laundering, heat, perspiration, etc.

College Teaching - When accompanied by a reasonable amount of scientific research in chemistry college teaching with the rank of instructor or higher will be considered acceptable experience for any grade of chemist provided that all other requirements for the grade under consideration have been met.

Examples of Non-qualifying Experience - Experience consisting of routine laboratory testing, routine tabulating of data, acting as curator of a chemical stockroom, teaching of high school chemistry and experience of like character or importance.

NOTE: The Application Form 57 may not provide sufficient space for an adequate description of the employment, military and educational background called for in items 16, 17, and 18. This information should be given in detail on separate sheets which may be attached to the Application Form 57. Such data should be presented in organized outline form. Formal job titles and elaborate terminology describing positions

held will not necessarily be accepted as establishing the quality and value of the experience actually had. Each of the additional sheets submitted should be identified by the name of the applicant and the title of the examination at the top and the specific item or sub-item on Form 57 to which it refers. List on Form 57 all positions you have held but furnish the detailed information requested below only for those positions in which your experience is pertinent to the option for which you are applying. The following employment experience is desired for each pertinent position.

1. The length of time you held each position and dates of all changes in title, salary and duties.
2. For each position, indicate clearly the number and types of persons whose work you directly supervised.
3. Responsibility for planning and organizing the scientific work on an entire problem, project or scientific research program.
4. Outline the general nature of the theoretical knowledge, different skills, and special techniques which you apply in your work. Give an example of some of the technical difficulties encountered in completing an assignment.
5. Give instances where individual interpretation, adaptations and development of new or modified work methods, and design of apparatus have been necessary in your work.
6. State types of formal reports you were required to prepare relating to the progress of your work, to whom these reports were submitted and to what degree you were responsible for the successful completion of your particular project or program.
7. List your scientific or technical publications (do not submit copies unless requested).

Basis of Rating - No written examination is required. Applicants will be rated on the basis of their training and experience as described in their Application Forms 57, with such additional information as may be developed through confidential inquiry. The major basis for determining eligibility for any salary grade will be the quality of the experience offered by the applicant. Only experience or training acquired prior to the closing date for receipt of applications as specified in this announcement, will be considered for this examination.

Part-time or Unpaid Experience - Credit will be given for all valuable experience of the type required, regardless of whether the experience was gained in part-time or full time occupation. Part-time or unpaid experience will be credited on the basis of time actually spent in appropriate activities. Applicants wishing to receive credit for such experience must indicate clearly the nature of their duties and responsibilities in each position and the number of hours a week spent in such employment.

#### Physical Requirements

Although the duties of these positions are of a sedentary type and include physical activities which are connected with research work or more specialized fields of chemistry, there are certain physical requirements. Chemists must have sufficiently free use of elbows, hands and fingers to manipulate laboratory apparatus. They must have sufficiently good vision

No Fee is Charged - Appointments to Federal positions which are subject to the Civil Service Rules are made through the Civil Service Commission. It is not necessary to secure the services of a private employment agency in order to obtain Federal employment.

Sex - The Department or office requesting certification of eligibles has the legal right to specify the sex desired. For these positions both men and women are desired.

Fingerprinting - Fingerprints will be taken of all persons appointed from these examinations.

Veteran Preference - Preference benefits based upon honorable separation from the armed forces are given under certain conditions in competitive examination for original appointment.

1. Five points are added to the earned rating of the applicant who establishes claim to preference based on his or her own active service in the armed forces of the United States during any war or in any creditable campaign or expedition.
2. Ten points are added to the earned ratings of applicants who establish a claim to preference as: (a) a disabled veteran; (b) the wife of a disabled veteran who is disqualified for appointment because of his service-connected disability; or (c) the widow (who has not remarried) of a deceased ex-service man who served in the armed forces of the United States on active duty during any war or in any creditable campaign or expedition.

Veterans claiming 5-point preference based on wartime military service are not required to furnish proof of honorable separation until the time of appointment. All other preference applicants should file Form 14, together with the documentary proof specified therein, at the time of filing Application Form 57.

Inquiries - After filing your application, be sure to inform the Executive Secretary, Board of U. S. Civil Service Examiners, Philadelphia Quartermaster Depot, 2800 S. 20th Street, Philadelphia 45, Pa., of all changes in essential information, such as name, address or availability. In reporting such changes, include your full name, title of examination involved, rating received and date of birth. These changes will be promptly recorded without acknowledgement. Please **DO NOT** make inquiries concerning the status of pending applications, prospects of appointment and related questions, as the handling of such correspondence will delay the holding and rating of this and other examinations.

Assignment of Grade - Applicants for the higher grade who are found not qualified therefor will be considered for the lower grade if otherwise qualified and available for the lower grade.

Notice to War Service Employees - Federal employees who are in positions which would ordinarily be filled by certification from the registers to be established as a result of these examinations should apply for the appropriate examination if they do not have a classified status and wish to qualify for permanent appointment.

6-6-50  
A.E.

to read measured distances on scaled laboratory equipment and must be able to distinguish basic colors and shades.

Although most of these positions require that the applicant be able to hear ordinary conversation with or without a hearing aid, there may be a few positions which do not require this ability, and applications from the deaf will be accepted.

Any physical defect which would cause the applicant to be a hazard to himself or others, or which would prevent efficient performance of the duties of the position, will be disqualifying for appointment.

A physical examination will be made by a Federal medical officer before appointment. Persons who are offered appointment must pay their own expenses in reporting for duty. If, upon reporting at the place of assignment, they are found ineligible because of physical defects, they cannot be appointed and no part of their expenses in returning home can be paid by the Government.

Age - Applicants must have reached their 18th birthday but must not have passed their 62d birthday on the closing date for acceptance of applications. These age limits do not apply to persons entitled to veteran preference. Age limits will be waived for war service indefinite employees who, on the closing date of this examination, are serving in positions which would be filled from the eligible register resulting from this examination. War service indefinite employees for whom age limits are waived may be certified only for appointment to a position of the same or lower grade than that held on the closing date. Non-preference eligibles for whom the age requirements have been waived will be removed from the register if they are separated from the Federal service. However, the eligibility of such persons may be restored upon reemployment in the competitive service under an indefinite appointment.

Citizenship - Applicants must be citizens of or owe allegiance to the United States, or must be citizens of the Republic of the Philippines.

Verification of Qualifications - Statements concerning qualifications may be verified by the Commission. Applicants may be required to present to the Commission proof of qualifications claimed. Proof will be requested by the Commission if required. Exaggeration or misstatement will be cause for disqualification or later removal from office.

## VII. GENERAL INFORMATION

Certification of eligibles to Appointing Officer - In filling vacancies in these positions, certification will be made of the highest eligibles on the appropriate register who have not expressed unwillingness to accept appointments at the place where the vacancy exists.

Appointments - Appointments for entry into the classified service will be made subject to investigation, will be probational unless otherwise limited, and will be made in the grades listed in this announcement and at the entrance salary of such grade. Such appointments become permanent upon satisfactory completion of a probationary period of one year.

655-4307  
4-12-B

SAC, Philadelphia

7/10/50

SA T. SCOTT MILLER, JR.

HARRY GOLD, was.  
ESPIONAGE - R

EXHIBIT 65-4307-1B-13 (1) (Exhibit 12B)

On 6/22/50, GOLD was shown the above folder containing numerous handwritten notes, laboratory reports, and the like, at which time GOLD stated that after examining all of the material, it consisted merely of laboratory reports, notes, work papers and conference notes relative to various processes being worked on and experiments done in the BROTHMAN laboratory.

TSM:HKF  
65-4307

5-24-47

Cyrt #3

add cone H<sub>2</sub>O to Cond. A at 20 80  
tell me had added vol for vol  
take up in 5 mins to 150'2 &  
drop back to 130

rather might have H<sub>2</sub>O & H<sub>2</sub>O  
& add cond. P. to it

add MeOH & H<sub>2</sub>O in  
ratio used by Bill

use to form  
acetone

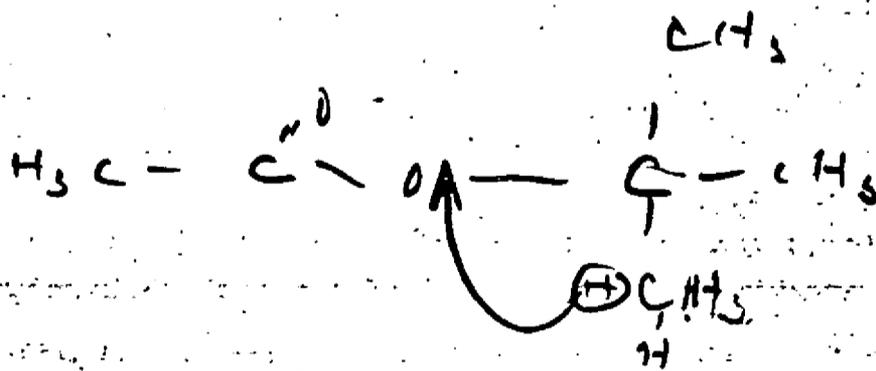
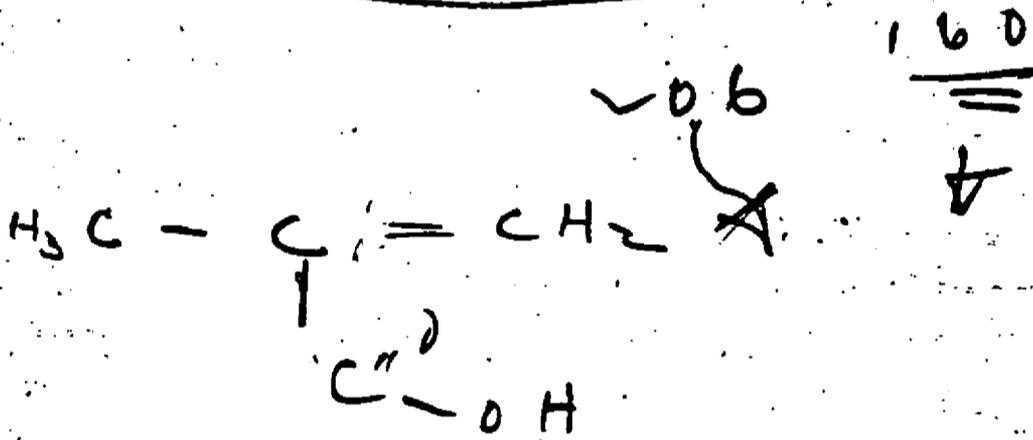
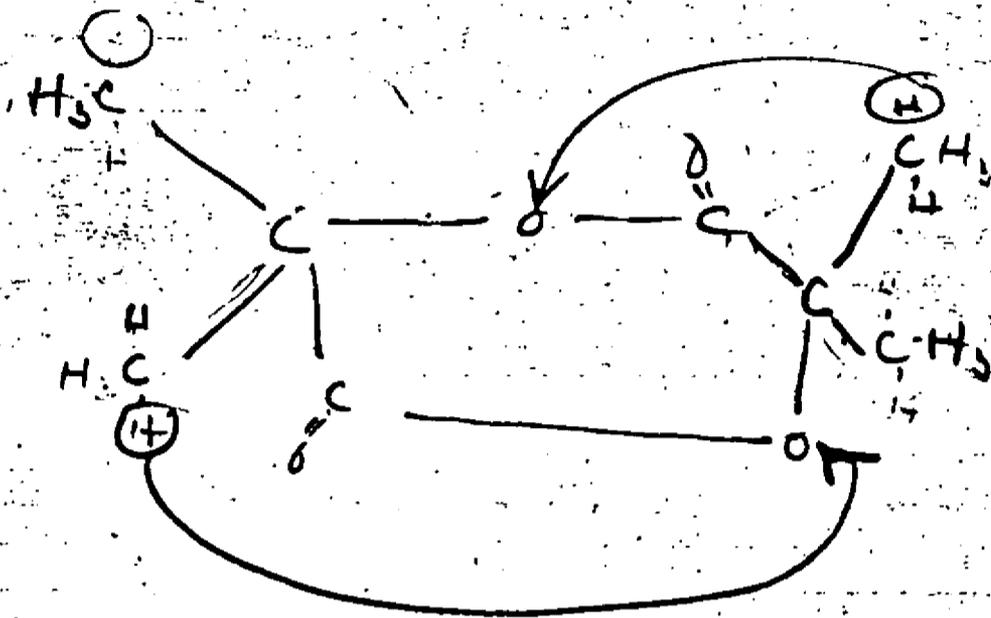
use HOH - no doubt.

### Summary of Cyrt

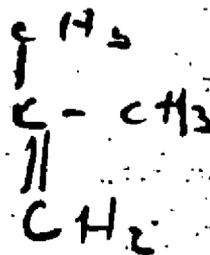
1. what was product in
2. to Henderson's procedure,
3. Cyrt. #3

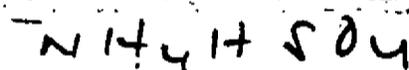
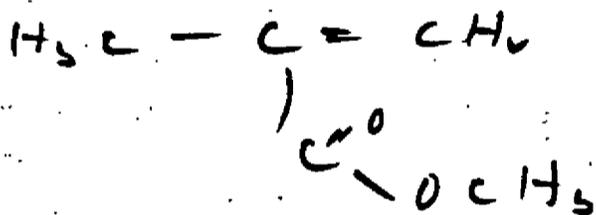
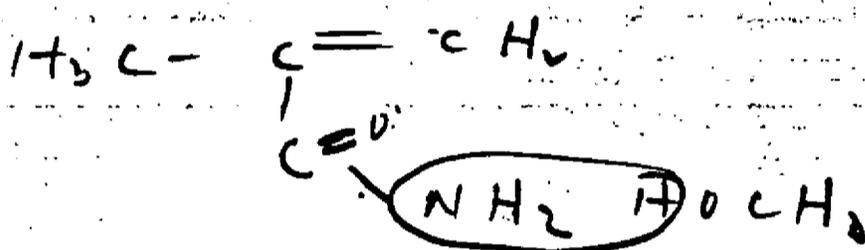
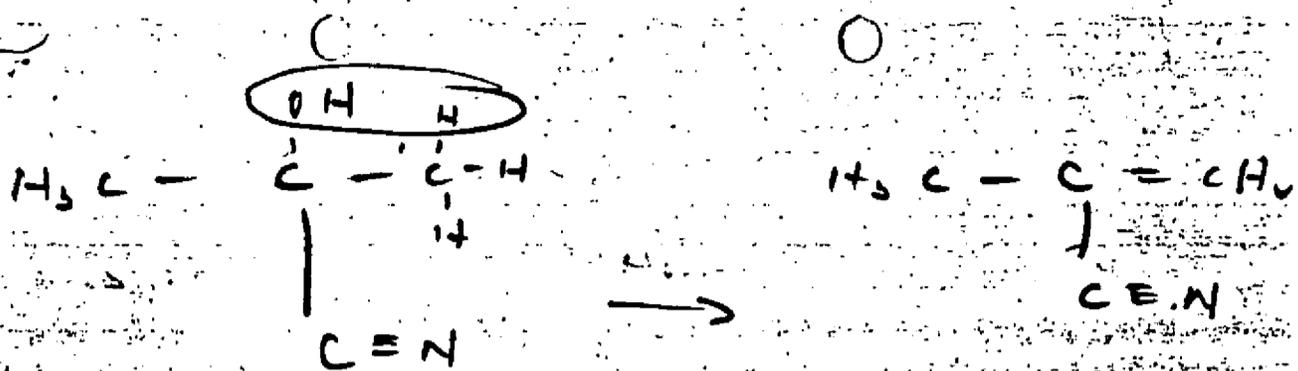




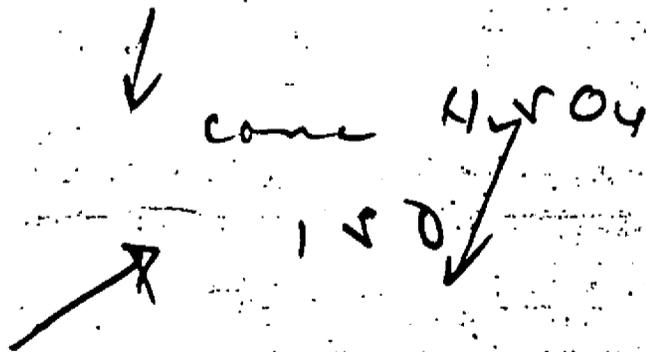


autocatalyzed





80

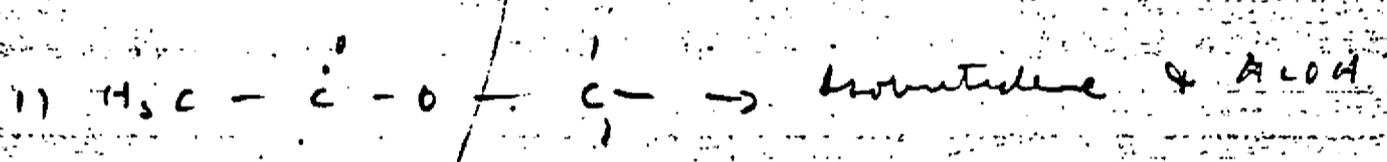


① Conference on Lab. Work

5-24-47

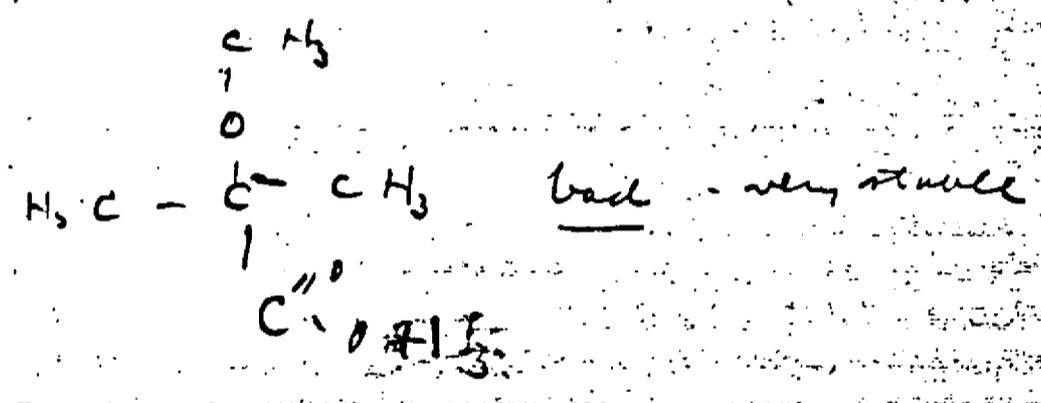
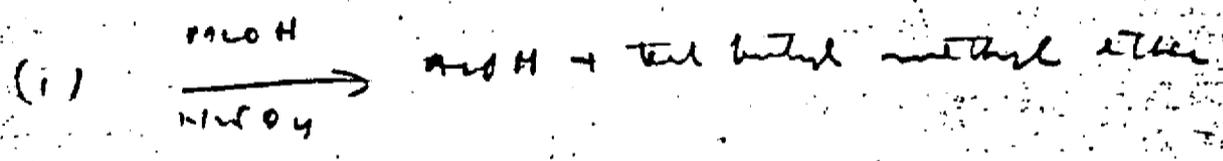
History

- 1. Carboxylic poly cond + lactide - wanted ester form
- 2. No. does not give all the same results
- 3. Poly cond not in solution
- 4. Do we form Ether cond. -  $\alpha, \beta$ , need in solution entirely to methacrylic acid

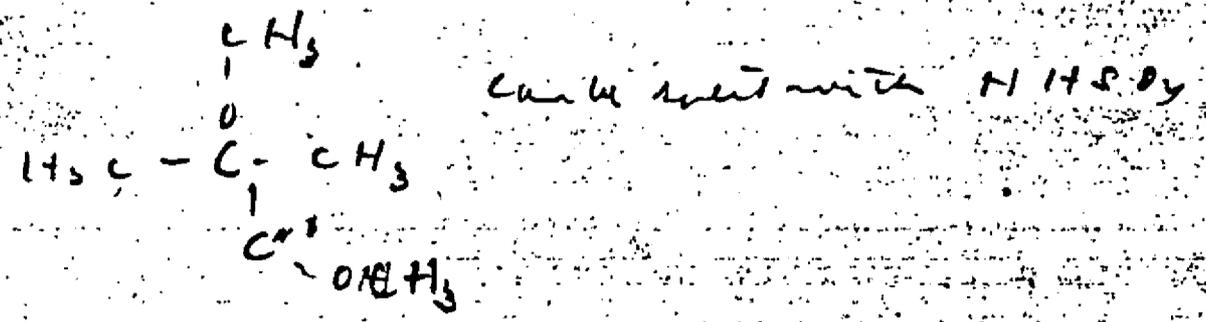


We are doing equiv of making with acrylic acid

but

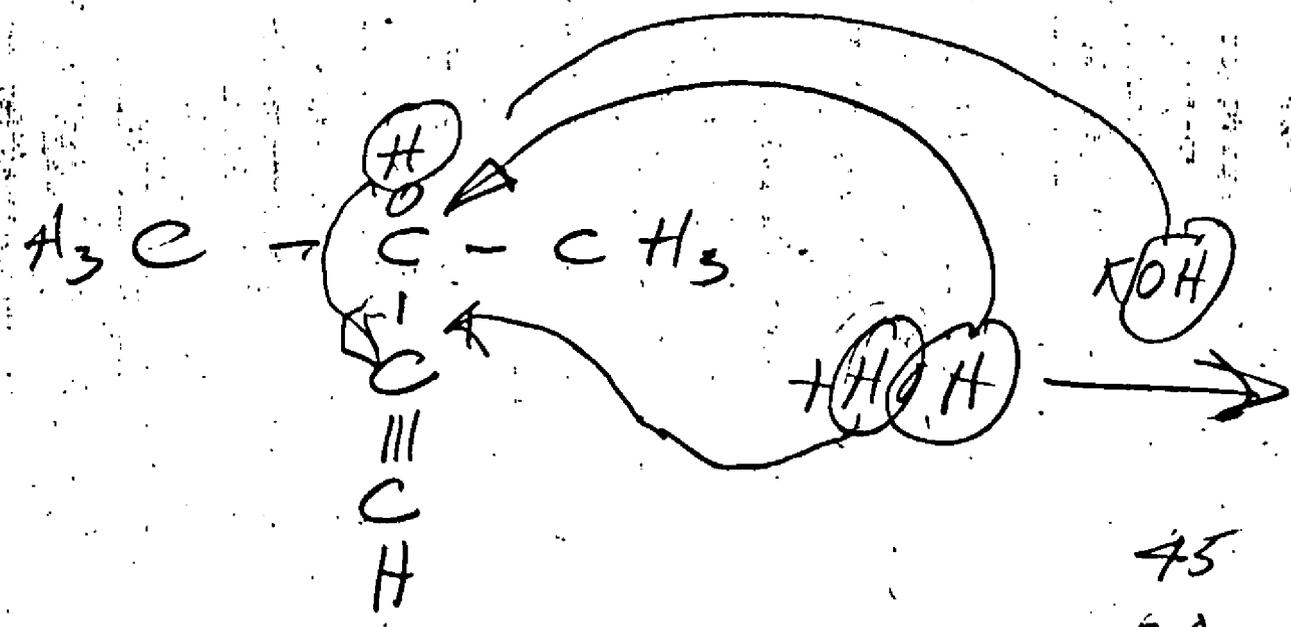


but



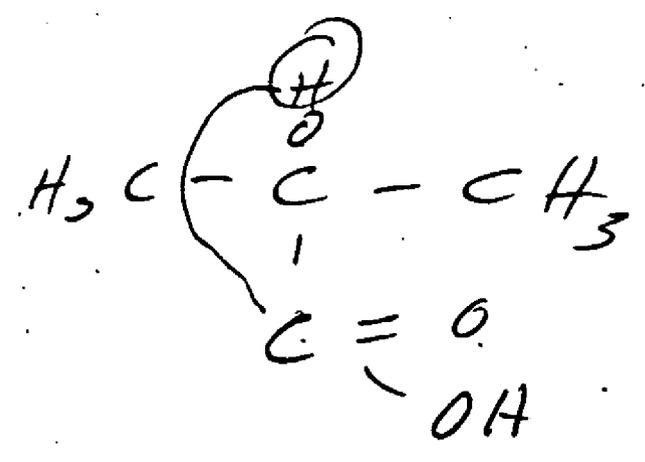


5-24-47



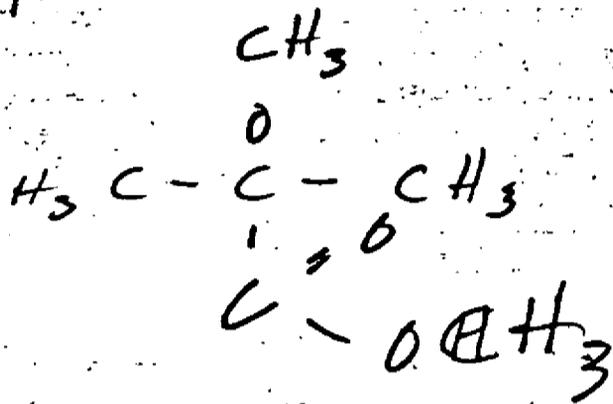
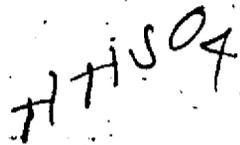
45  
30  
65

5



(3)

5-14-47



Yields

1. Incomplete conversion of coal prod to Meth. acid
2. Formation of anhydride of acid (min 70%)
3. could be detection of yield to ether
4. catalyst (incomplete conv.) coming back

1. Warm oil with  $H_2O$  &  $H_2SO_4$  } det. no  
~~the~~ } try to polymer.

need column: in catalyst

Packed column - in foil, cleanliness

use

1. catalyst removed to
- acid catalyst

Co. had catalyst

... ..



Cupto

1. K material - attempt to identify

(Cupt 1a) a. add catalyst + polymerize  
b. try KMnO4 again

(not balance on cond product)  
(also take several possible H<sub>2</sub>H - see later)

2. Completion of identifying of cond product.

a. Some require acid catalyst

int. (1) [ set up 1 at 7-10 hrs at 200°C ±  
(as high as can go).  
If abt substantial condensation to stand, b.p. of system should consistently lower - use inhibitors - use AlCl<sub>3</sub> in addition to the  
make continuous obs. for progressive lowering of b.p.

3. Acid Catalyst.

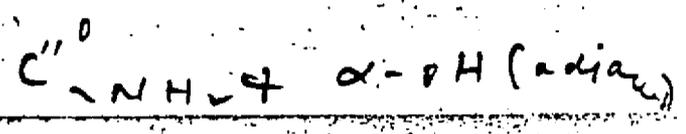
a. H<sub>3</sub>PO<sub>4</sub> Evidence

10g P<sub>2</sub>O<sub>5</sub> ; MeOH ; 130°C ; reflux 1 1/2 hrs.

→ distill

b. Fumarate (C<sub>4</sub>H<sub>2</sub>O<sub>2</sub>) may be present in product  
cond prod. formation

can also polymerize



(6) 1-24-47  
 two cuts (previous) —  
 1. 200g CH<sub>3</sub>H reflux — 9.  
 2. 200g CH<sub>3</sub>H 120°C 100 ml MeOH  
 → Me Me (100g)

methanamide process

200g (200ml H<sub>2</sub>SO<sub>4</sub>)

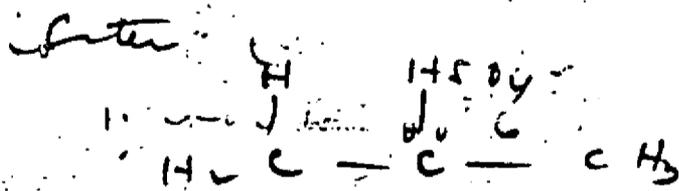
100g (100ml amide)

100ml → NH<sub>4</sub>H<sub>2</sub>SO<sub>4</sub>

80°C → Me Me

So need minimum final acid conc.

should be mol for mol. → H<sub>2</sub>O add product.



less stable than amide  
 amide derivative (?)



Flash

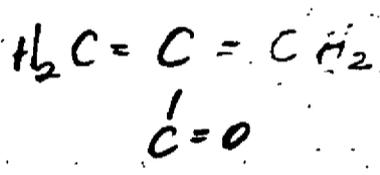
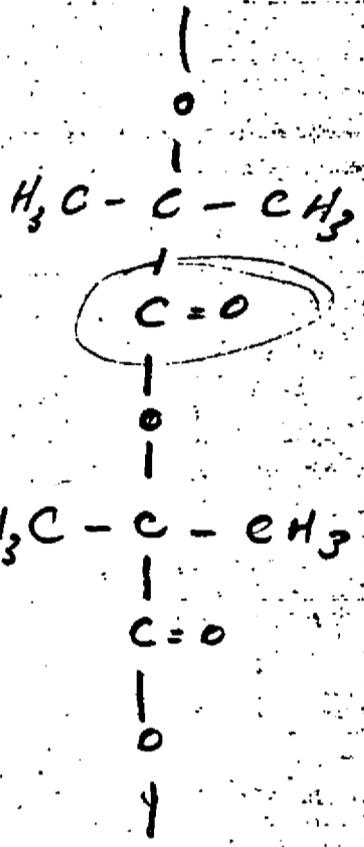
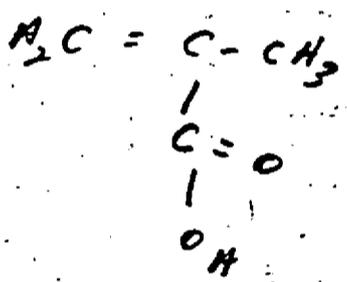
245.7  
60.7  
305.7

83.5, M

3-7-0

$$\frac{98}{104} \times \frac{60}{\cancel{104}} = \frac{57 \text{ gms}}{1.75} = 33 \text{ cc}$$

$$\frac{2}{104} \times 60 = \frac{55.5 \text{ gms}}{1}$$



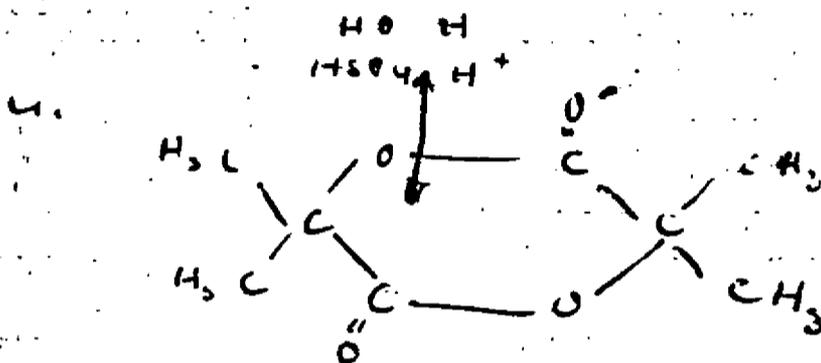
630  
930 170

1. P.O. → 20-757  
all hypotheses worthless

2. all meco in late fractions

3. this much clear

- a. In presence of ethyl lactide as found in d.
- b. also, H → present but lactide
- c. Every time used meco H - HO H → no yield  
worthless



Reversal Tendency

See x-04

1. no chiron acetone formation can account for loss in yield.

2. incompleteness of reaction

some  $CH_3CO_2H$

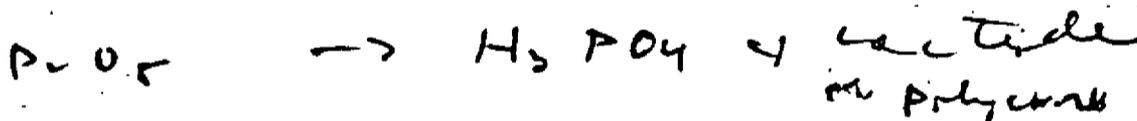
∴, tried to drastically reduce  $t^{\circ}$ , to  $\rightarrow$  avoid ~~some~~  $CH_3CO_2H$  at low  $t^{\circ}$  & avoid dimer.

a. yields uniformly bad 40% or less

3 ~~the~~ stirred of  $CH_2$  & med less react to get higher temps  $\rightarrow$  somewhat increased yield

4. Incomplete Prod of Ester

due to volatility of reagent & residue taking over  $\rightarrow$   $CH_3CO_2H$  reagent



9mo

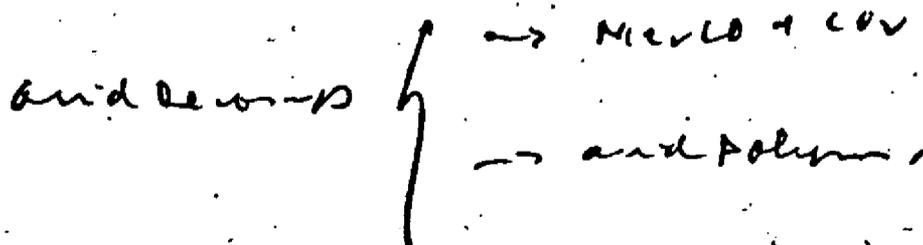


$\frac{2}{3} P_2O_5$  + reflux at 150 (2hr)  $\rightarrow$  considerable NAME

3 cond

after react 150 and ~~to~~ 10gr.  $P_2O_5$

Got better yield



Further on acid (hydrolysis)

that that 1st form  $H_2C=O$  acid & the ester by  
& carry over.

So passed  $NaCOH$  thru at high  $t^\circ$  (increasing  $t^\circ$ )

$\rightarrow H_2C=O$  acid)  $\left\{ \begin{array}{l} \text{to check } H_2C=O \text{ for} \\ \text{to check ester} \end{array} \right.$   
& get better yields

Will come with  $200^\circ$   $NaCOH$   
yields into  $90^\circ$  as ~~the~~ passing thru

Summary

- 1. Principal losses due to poor esterification with  $NaCOH$
- 2. Incomplete hydrolysis of  $\alpha-OH$  <sup>acid</sup> or ester
- 3. Final form  $H_2C=O$  acid & the ester by

Exp.

- 1. was in forming polyacetaldehyde
- 2. was in forming  $H_2C=O$  acid
- 3. that the catalyst for  $\left\{ \begin{array}{l} \text{mercuric} \\ \text{acetate} \end{array} \right.$

- 1. Pregelation out - some formation of  $H_2C=O$  acid
- 2. at  $100^\circ$
- 3. show some loss in  $\alpha-OH$  becoming
- 4. at  $100^\circ$  can get a little then

60 cc (X) 1.5 =

90 (O)

95

8

193

- 392

~~23.2~~  
~~61~~  
~~114.2~~

5-12-47

Second Cut

	<u>Still Pot</u>	<u>Vapor</u>	<u>Variac</u>	
10:15	70°C	54.5°C	42	/
35	76	55	45	
45	83	55	46	} Flaming in still pot.
55	95	55.1°C	46	
11:03	105	53	46	- Flaming stopped
10	115	56.1°C	46	- Dist. slow
15	117	60	48	
20	119	63	48	
25	120	64	48	
43	128	65	53	
48	130	70	54	

Wt. of 2nd Cut 106.1 g

12:00	127	71	58	} turned not condensed
08	126	64	60	
15	stirred solid mass			
17	137	59		
<u>Cut</u>		<u>22.3 g</u>		

	<u>Vacuum</u>		<u>Var</u>	<u>Pressure</u>
1:40		-		260 mm
45	95		"	"
50	118	39	"	"
55	131	40	42	"
2:10	150	less than 40	30	"
14	154		40	170
25	264		30	60
2:40				40

100.2 g

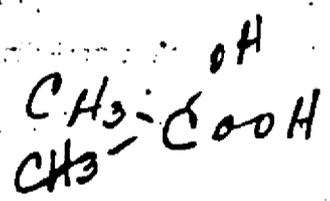
g. cellulose ton

Eldorado 5-8903

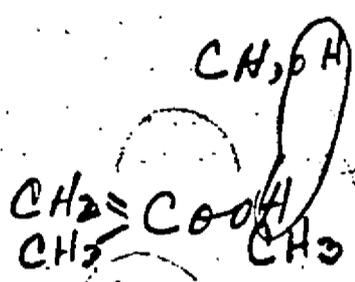
ex Brown Co. 5th Ave.  
500  
Penn 6-2260

Pure 160-240 ton  
~~to~~ not bleached \$100  
Solka fill  
\$80  
100

~~Let 1-100~~



→



4-12      36  
3-11      48  
            92  
            92  
            18  
            110

4-12      48  
            8  
            32  
            88  
            12  
            100

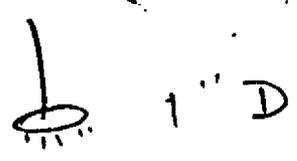
11150

2nd 130°C still pot  
 61g anhydrous  $MgSO_4$   
 3rd Cut Cut 130-60°C +

Change vacuum when ~~not done~~

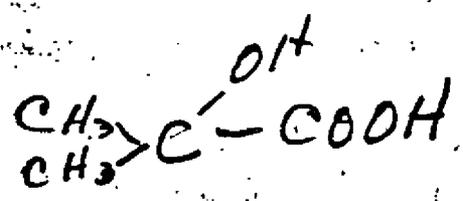
E. A.  
 values

2 dispersion tubes SS coarsest



4 copies Chem Eng. McGraw Hill April issue

Prod 1<sup>st</sup> DDT or 2<sup>nd</sup>



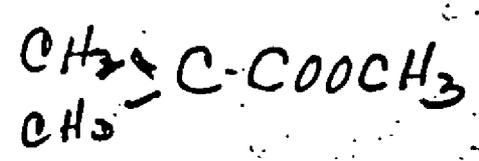
4-12

$\frac{16}{48}$   $\frac{16}{48}$

48 ✓  
 8 ✓  
 48 ✓  
 104 ✓

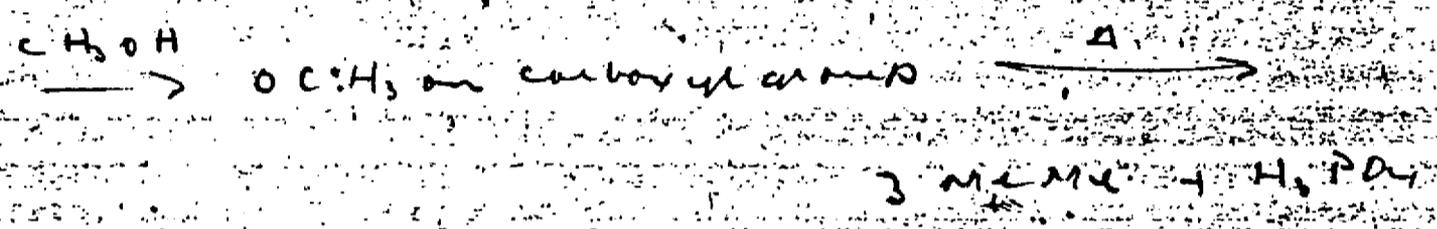
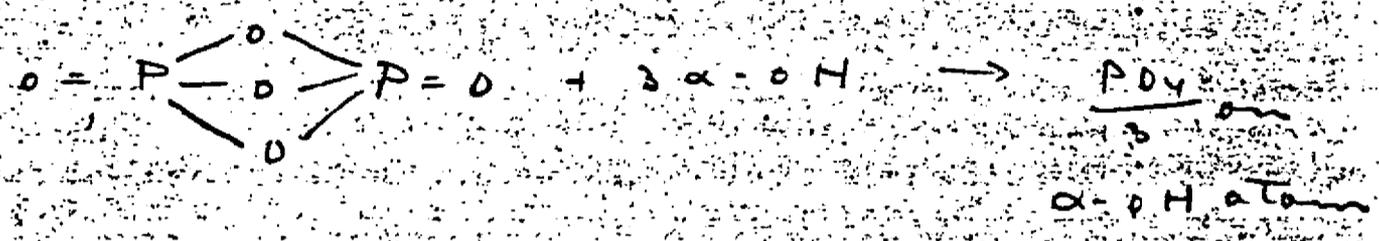
45 x  $\frac{100}{104}$

10:30



~~45~~  
 60  
 28

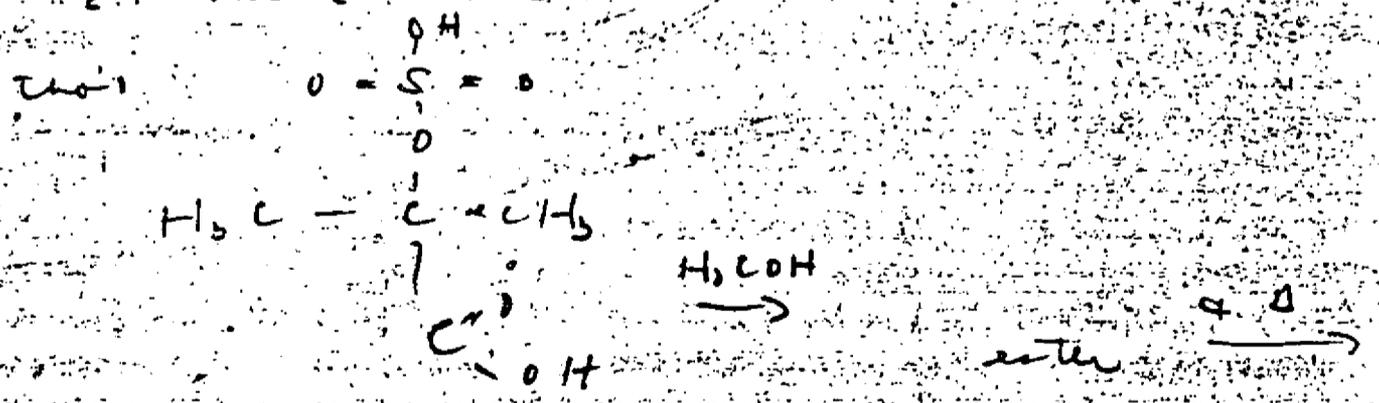
previous Thella ( ) ( ) 5-27-47



above was erroneous

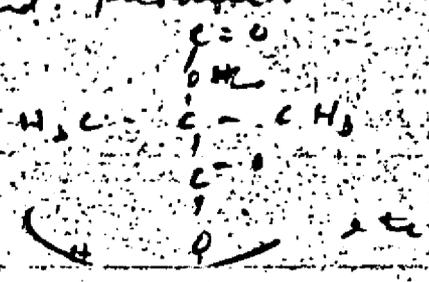
ind AT  $CSO_3H$  proved otherwise

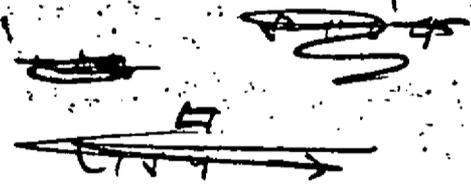
1. liquid systems formation
2. lower loads (heavier than  $H_2O_4$ ?)



now know

1. Form polycand. product
2. Split this





$$\frac{8}{3.5} = \text{water}$$



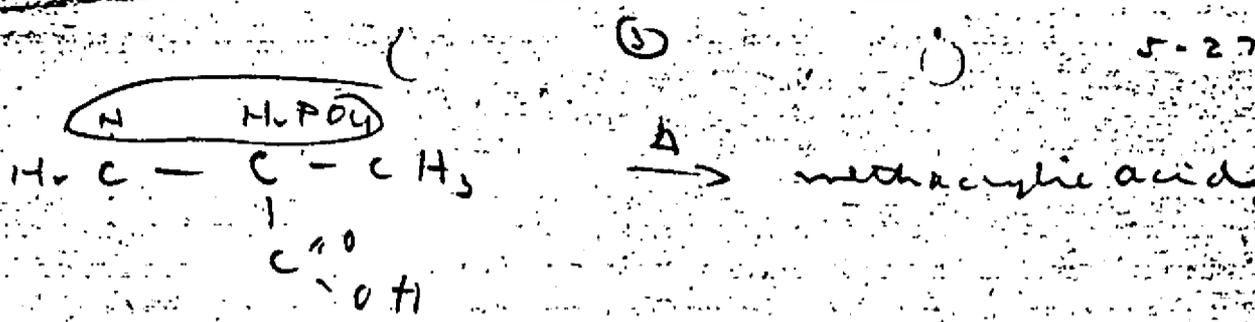
1.26 : 0.2 : 1.59 = 1.8 Hz  
- 11.4 ft



6650



5-27-47

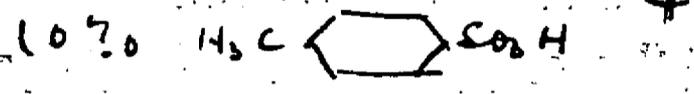


also, condensed formation is desirable

Proposals

1. Simultaneous esterification & decomposition of polycondensation product.
2. Distill off methacrylic acid as formed.
3. H<sub>2</sub>SO<sub>4</sub> addition to promote termination, possibly with simultaneous esterification.
4. Stabilize methacrylic acid as formed (with inhibitor)

1. methanol (Pausin Vanin)



~~50~~

$$709 \cdot 0.15 = 11.5$$

~~136~~  
~~11.5~~

$$\frac{142}{569} \cdot 11.5 = 1.05$$

~~11.5~~  
~~1.05~~

Time	Flask °C	Lower col °C	Upper col °C	Notes
12 <sup>32</sup>	89	69	64	Start of run
12 <sup>55</sup>	97	70	65	
1 <sup>00</sup>	99	69 1/2	65	
1 <sup>05</sup>	102	70	65	
1 <sup>10</sup>	106	69 1/2	65	
1 <sup>15</sup>	108	70	65	
1 <sup>20</sup>	111	70	65	
1 <sup>25</sup>	114	71	65	
1 <sup>30</sup>	117	71	65	
1 <sup>35</sup>	122	72	65	
1 <sup>40</sup>	125	74	65	
1 <sup>45</sup>	130	75	65	Discontinued distillation

1.55 Beginning of reflux  
 2.00 Temp 130°C  
 3.15 142

4 <sup>10</sup>	140	—	69	10 bubbles/min
4 <sup>20</sup>	152	—	73	
4 <sup>30</sup>	158	—	85	9.2 ans.
4 <sup>40</sup>	162	—	89	cut # 2

5.35	162		66	
40	166		77	60 bubbles/min
47	168		97	
6 <sup>02</sup>	170	147	118	(57 1/2) bubbles/min

33 2 5  
 270.7  
 -----  
 608

*Handwritten scribble*

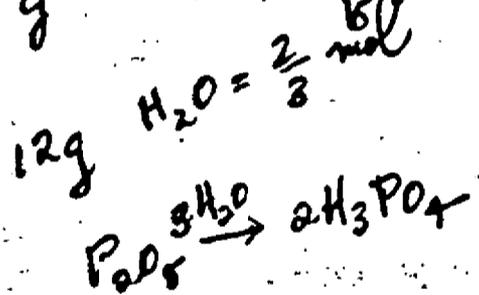
57  
 44  
 64  
 5  
 -----  
 170

170 9

57  
 9  
 35  
 -----  
 101  
 61  
 -----  
 162

89

80 g 85% 107.5  
 42.5  
 500



2 ml P<sub>2</sub>O<sub>5</sub>

$\frac{2}{9}$  H<sub>2</sub> = 31.6 g. 42.5g.

Tare flask: 250.5

11.2 g. lactide

148 g.  $H_2PO_4$  (100%)

107.5 g. 85%  $H_2PO_4$  } 2 g bet  
42.5 g.  $P_2O_5$

13 g. methanol

9:03

9:45

Start admission of mixture

7.5 g recovered

8.2 cc (3 cc upper layer)

Lower layer 85% Me Me

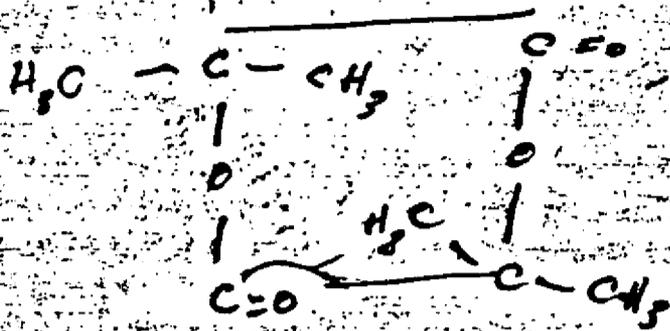
Flask + phosph: 407.5

250.5

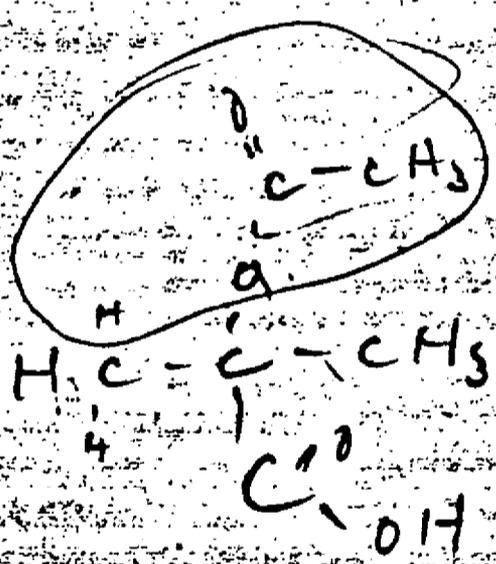
157.0

148

g. material other than  $H_2PO_4$   
in flask



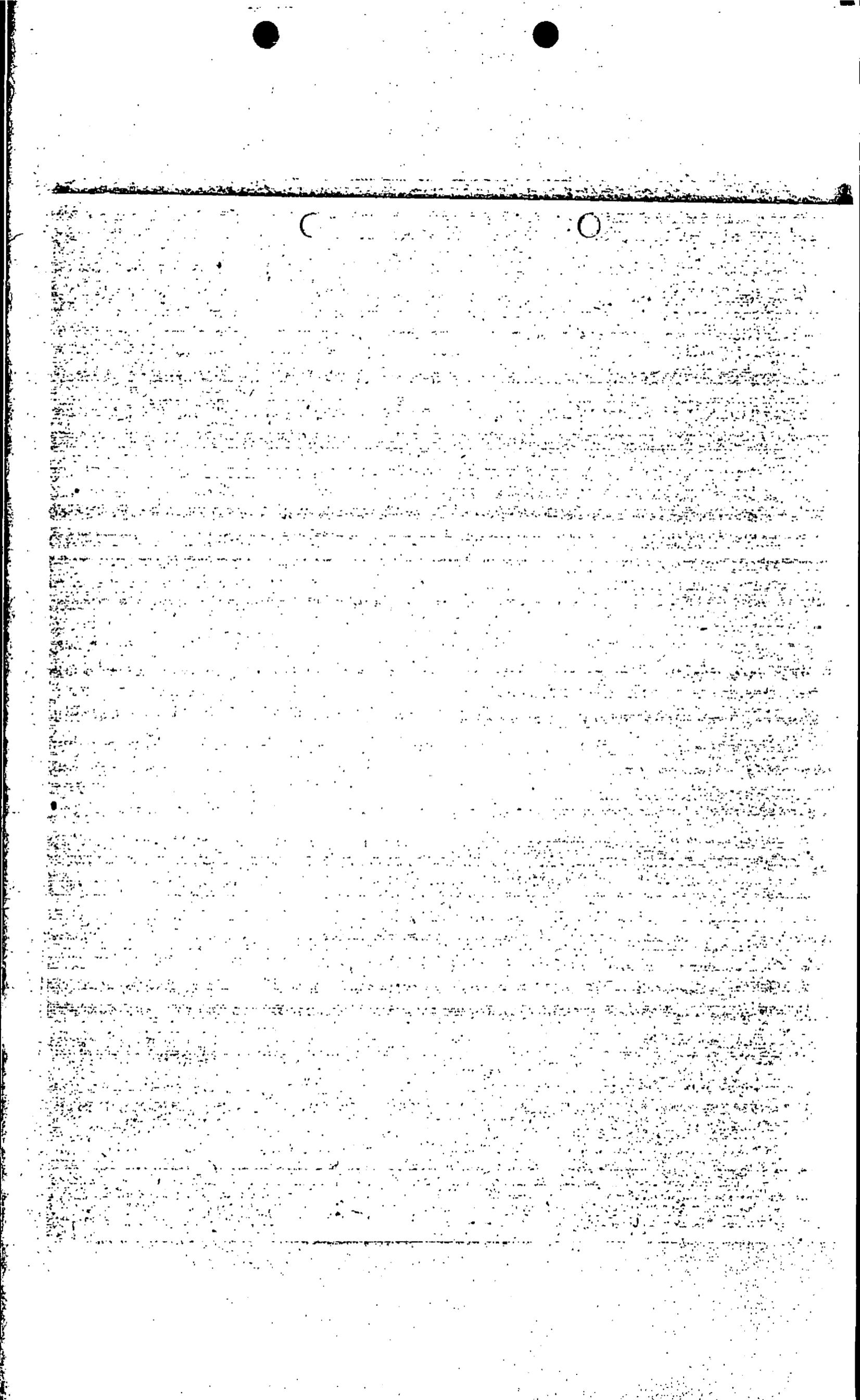
36



0.21

$\frac{1.81}{1.04} \times 36$

al-R.C-4797





$$\begin{array}{r} 31.00 \\ - 27.70 \\ \hline 3.30 \end{array}$$

$$\begin{array}{r} 20.60 \\ - 13.90 \\ \hline 6.70 \end{array}$$

$$\begin{array}{r} 2.00 \\ \hline \end{array}$$

$$\begin{array}{r} 34.40 \\ - 27.80 \\ \hline 6.60 \end{array}$$

$$\begin{array}{r} 12.00 \\ - 7.40 \\ \hline 4.60 \end{array}$$

$$\begin{array}{r} 20.40 \\ - 14.00 \\ \hline 6.40 \end{array}$$

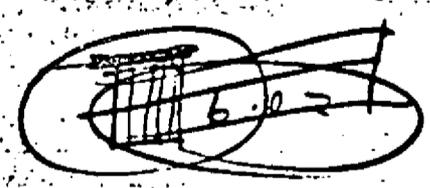
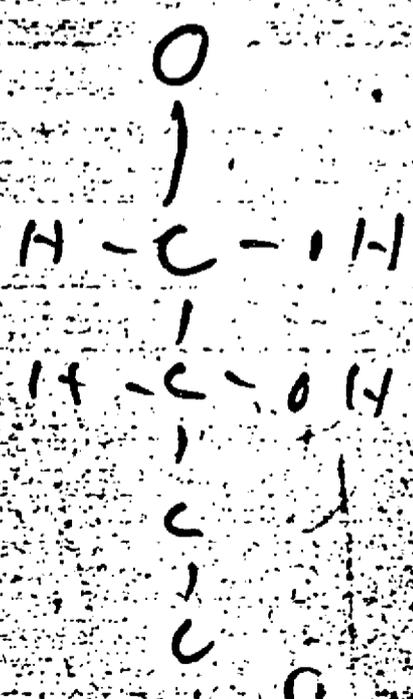
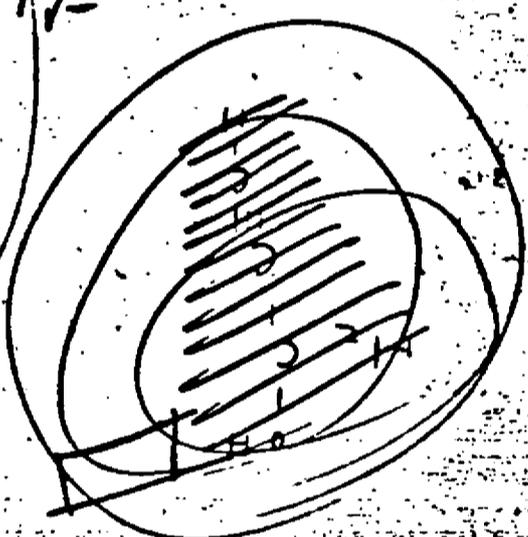
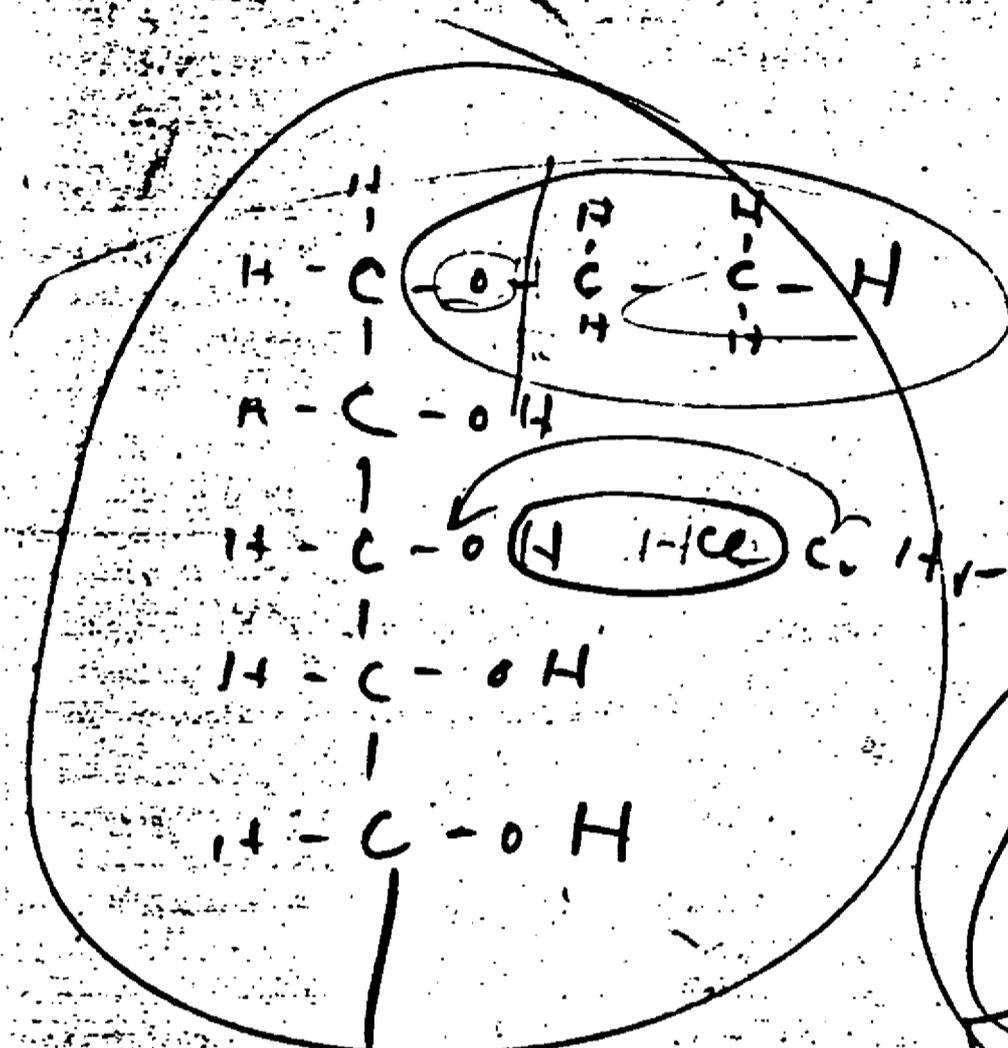
$$\begin{array}{r} 17.00 \\ - 13.70 \\ \hline 3.30 \end{array}$$

5.50

$$\begin{array}{r} 31.00 \\ - 25.00 \\ \hline 6.00 \end{array}$$

$$\begin{array}{r} 3.00 \\ - 1.60 \\ \hline 1.40 \end{array}$$

5.00



2.0.9  
 1.1.5  
 0.5.4  
 3.0.4

2-13-47

Water phase esterification

Run	Feed	Catalyst °C	Adaptor °C	Reaction Time			Notes
				run #1	run #2	run #3	
10	155	135	136	172	170	180	Control
11	140	120	137	172	169	181	
12	145	150	137	171	169	180	
13	150	135	137	172	168	181	
14	155	125	133	172	168	182	
15	160	125	150	173	170	183	
16	162	120	128	175	170	181	

Distillation

Charge to Still Pot.

1st Fract  
45-50°C

2nd Fract  
50-55°C

503.2  
255.8  

---

3190

389.7  
150.9  

---

540.2

182.0  
141.1  

---

46.9

3rd Fract

13.0 g.

Residue 35.9 g.

236.2  
46.9  
13.0  
39.1  

---

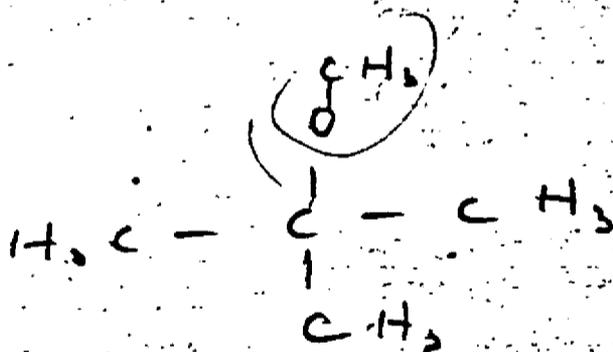
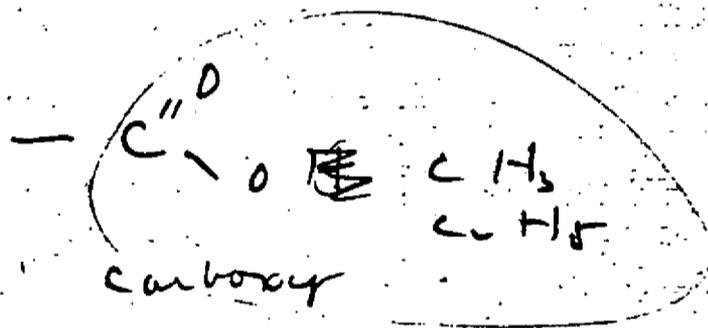
300.0

2-15-47

Vapor Phase Certification

Charge  
 Cell No. { 100 gm  $\alpha$ -OH acid  
 100 gm MSH  
 128 gm MSH + 14u (recovered)

line	red	Cell pH, °C	adjuster, °C	Reaction tube		
				run #1	T#2	T#3
1	00		20	20	20	20
2	10	18	124	124	125	120
3	20	40	110	127	128	127
4	30	75	124	126	126	128
5	40	125	122	125	126	126
6	50	127	122	140	122	122
7	55	129	125	141	121	121
8	60	127	125	144	128	124
9	65	126	126	146	129	127
10	47	128	129	141	129	124
11	50	126	128	139	129	123
12	54	116	127	137	130	120
13	48	126	130	130	126	119
14	62	132	127	126	126	117
15	64	125	127	123	126	118
16	67	127	127	122	123	123
			137	123	127	124



6/6/50  
279

2-15-47

Vapor phase Esterification

Time	Feed	Catalytic Pt, %	Adaptor %	Reaction Tube		
				T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>
45	79	123	119	130	130	127
48	83	127	124	129	131	127
48	85	125	126	127	129	125
50	91	126	126	127	129	123
50	94	127	120	124	125	120
510	99	123	118	124	125	121
15	102	125	126	125	125	122
20	-	90-170	137	127	129	128
29	131	130	126	129	130	129
31	141	127	120	127	129	125
40	146	60-130	128	127	129	125
45	150	110	127	127	129	125
50	158	123	130	127	129	124
55	162	123	128	127	129	124

yield	504		Residual
	260	327	
	<u>243</u>	<u>243</u>	
ans:		285 an. lost	<u>8.7 g</u>

2-18-47

John Rose dehydrogenation

Pressure 115 mm.

Charal  
 or tall pot { 100 am.  $\alpha$ -OH acid  
 100 am. MeOH  
 +  
 123 am. H<sub>2</sub>

Reaction Table

Time	Feed	Column °C	adsorber °C	Temp #1	Temp #2	Temp #3	Notes
10	—	27	34	112	101	121	Start
10	5	121	132	177	171	181	
10	10	120	130	172	173	175	
10	15	122	131	170	172	174	
10	20	124	134	171	175	176	
10	25	125	136	170	177	179	under acid add
10	30	124	135	168	177	180	
10	37	123	135	166	175	183	
10	trouble - pressure dropped to 350 mm						OK
10	55	128	132	165	170	180	
10	60	125	129	167	172	179	
10	65	120	131	167	166	193	
10	75	130	132	—	—	—	
10	85	110	131	169	168	184	
10	95	125	131	168	168	182	
10	100	120	133	170	170	184	
10	105	129	133	172	170	184	
10	115	118	133	175	172	185	
10	120	132	133	175	173	185	
10	125	130	134	172	170	182	
10	130	128	135	172	171	180	

2-25-47

Reduction of  $\alpha$ -OH-Lipo

Still Pot °C	Lower Col °C	Upper Col	Pres	Notes
110-160	80-150	60-150	760	
170	160	not dist.	760	
130	110	85 (cur 74)	150	
165	150	173 (cur 72)	100	cut
102	145	80	745	

Low 3.9260

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

#1

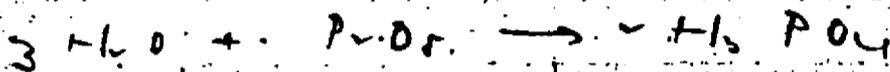
3-49 NAME

Handwritten text:  $\alpha$ -Hand

104



$3 \times 47.9 = 143.7$   
94.7 g

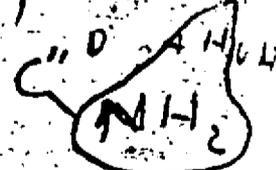
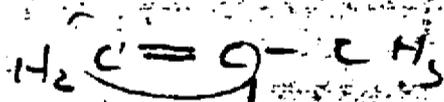
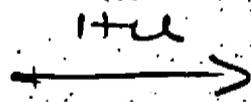
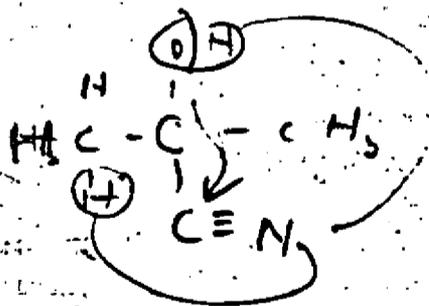
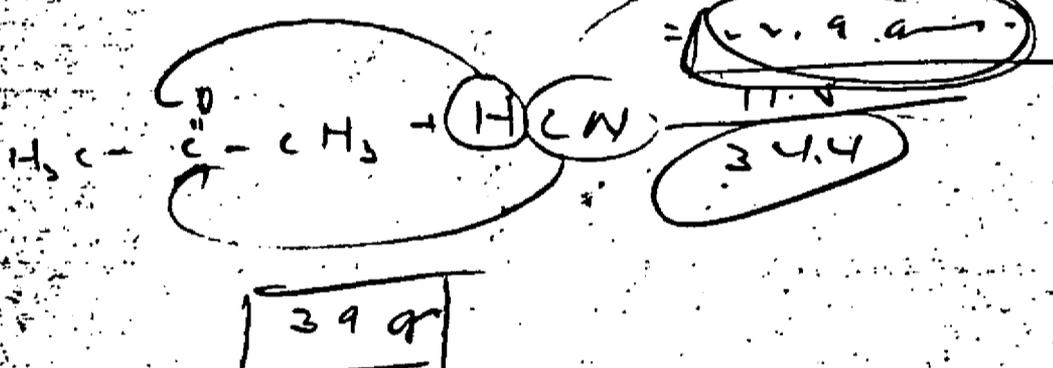


$29 \times \frac{64}{104} = 17.8$

44 gms

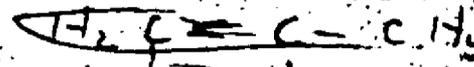
$4 \mid 94.7$   
~~23.7 g  $P_2O_5$~~

$127.4 \times 0.667 = 84.9$



HCl

NH<sub>2</sub>



$C(=O)$

To be Done

After  $\alpha$ -OH acid

maintain temp on cyanhydrin Hydrolysis

set up to Distill, P. O. Run

Test Pils Run

lean glassware

weep Floor

toluene sulphonic acid prelimin Run.

20187	1.5500	14914	89881
468037	538234	504723	64575
428224	452035	519337	578367
50254	49667		
52055	52215		
51937	22361		
78367	51705		
	41605		
	67595		
	018895		

1	57.707	56.850
	56.5379	56.5379
	<u>1.1691</u>	<u>.3121</u>
2	51.870	50.8467
	50.4723	50.4723
	<u>1.3977</u>	<u>.3744</u>
3	52.8683	51.8824
	51.5234	51.5234
	<u>1.3449</u>	<u>.3832</u>
4	50.2166	49.2291
	48.8037	48.8037
	<u>1.4129</u>	<u>0.4254</u>

~~\_\_\_\_\_~~ difficult. In the second  
 call it has been possible by this method to  
 prep. esters which had previously had to be  
 prepared from their components by heating them  
 in sealed tubes. In many cases it is desirable  
 to use  $p\text{-NO}_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$  as a catalyst. Numerous  
 examples and order of esterifications by this  
 method.

Me lactate (6.145) (15 cm Vigreux)

1. Distill neat at atm → 840 gms (64-50°) <sup>600</sup> <sub>100</sub>
2. Distill at 180-190 mm → 37 gms (35-50°C) <sub>100</sub>
3. Distill at 140-154 mm → 28 gms (53-58°C) <sub>100</sub>
4. Distill at 40-25 mm → 58 gms (61-66) <sub>100</sub> <sup>120-160</sup>
5. Residue 35 gms. <sub>100</sub> <sup>180 mm</sup>
6. Residue (245) <sup>(atm)</sup> → ester
7. add 6 to 4 & redistill → 52 gms pure Me lactate

lactic acid 100°C (15 mm).

Et lactate

80 g. acid  
 20 g. alc.  
 1 g.  $\text{H}_2\text{C} \leftarrow \text{CH}_2$

1. 79 mm. 760 mm. 77-78°C (overhead)
  2. 10 gms. 170 mm. 41-42°C
  3. 69 gms. 50 mm. 75°C
  4. residue 31 gms.
- 54 lactate

6/6/50  
 em

The preparation of lactic acid

C.A. 16, 2111 (1922)

H. Wuyts and R. Baillieux

orig. Ref. Bull. Soc. Chim. Belg. 29, 55-67 (1920)

W. and R. mention the use of  $H_2C \text{---} \text{C}_6\text{H}_{10} \text{---} SO_3H$  as a catalyst.

Yields for the preparation of methyl lactate,

a.	80 gms.	Lactic acid (75%)
		925 gms. MeOH
		1 gm. catalyst, $H_2C \text{---} \text{C}_6\text{H}_{10} \text{---} SO_3H$

b. 15 min. vac.

c. yield 81% +

C.A. Ref.

The process of esterification is so conducted at the ordinary pressure or under reduced pressure at such a tempo that only a portion of the products or one of the reacting substances is volatile. Two cases occur, namely (1) in which the ester is the most volatile component, (2) in which water and also all the most volatile components and the org. acid the least volatile. In the first case the ester distils off as formed, although the problem may be rendered more complex by the eventual formation of binary or ternary azeotropes with some b.p.'s which may facilitate the separation.

Distillation of me-me Run

3/22/47

<u>Time</u>	<u>Bath Temp</u>	<u>Still Pot Temp</u>	<u>Column Temp</u>
18	178 °C	108 °C	101.5 °C

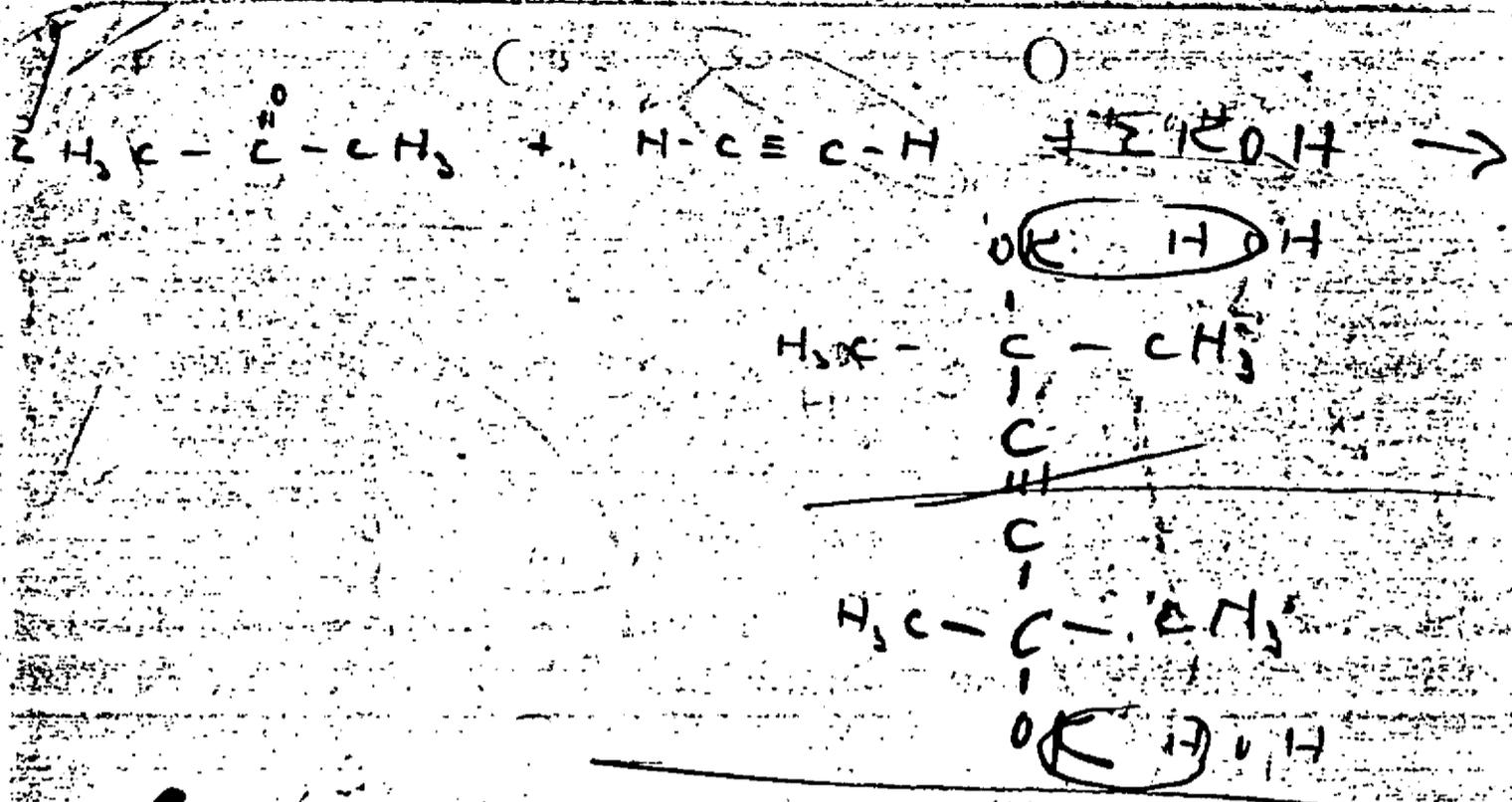
Crystallization via p-toluene sulfonic acid

total

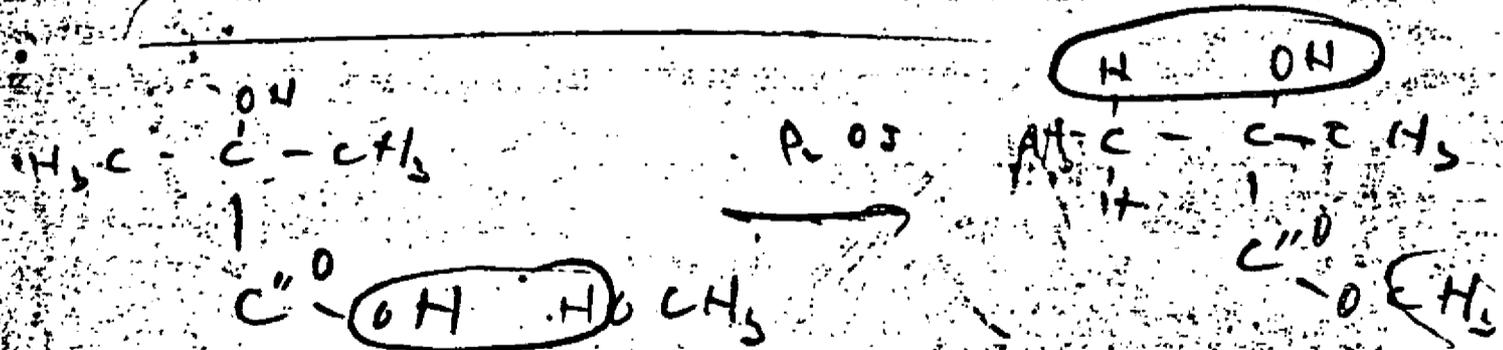
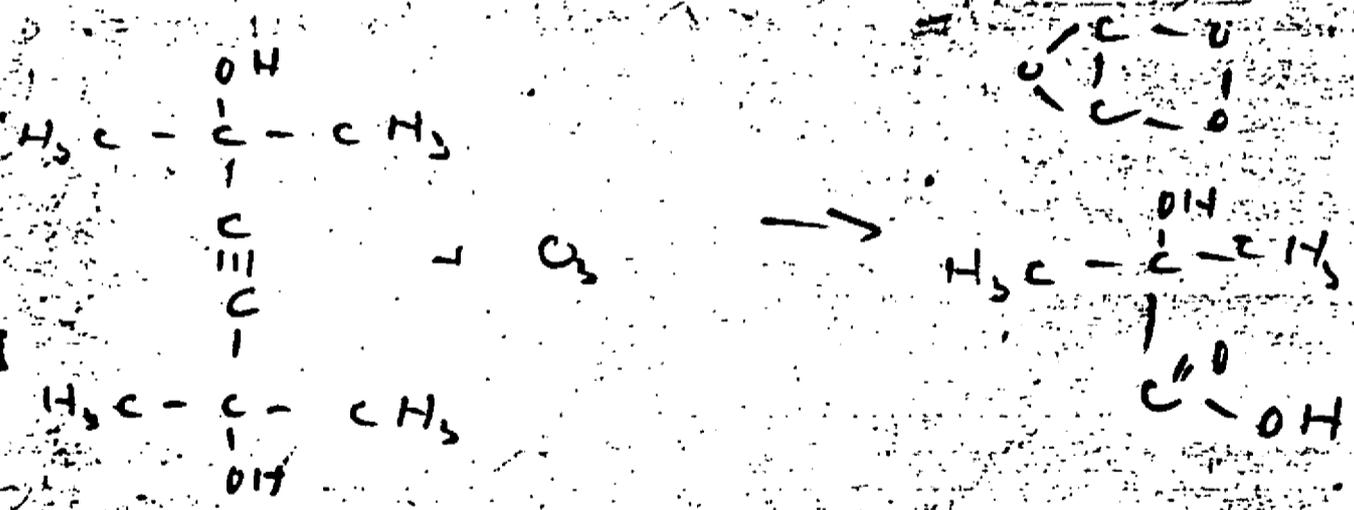
- 52 gms 2.04 acid
- 697 cc MeOH
- 0.8 gm. p-toluene sulfonic acid

Distillation record - started 14th and 12/17

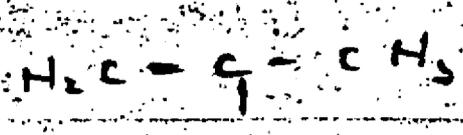
Time	Temp °C	Still Pt 1 °C	Lower Col °C	Upper Col °C	Notes
1:50	82 1/2	68	66	64	
2:00	79.5	68	66	63	
2:10	84.	68	66	64.	
2:20	85.90	68.5	66.5	65.5	
2:25	90.3	69.	66.8	65.5	
2:30	92.	69.3	67.	64.	
2:45	98.	70.	67.5	65.5	
2:46	98.8	70.8	68.8	65.1	flashes ruptured
2:50	98.	72.	70.5	68.	
2:55	95	<del>72</del> 73.5	72.8	67.5	ther. changed
3:00	99.	76.	73.6	68.5	
3:05	(100) 99.	78.3	74.5	68.5	
3:10	99.5	81.	74.5	67.	
3:20	56 75.	56	(+50.)	41	vacuum
3:30	77.	61	-(+50)	38	
3:40	95.-	65.-	+54.	47.5	
3:43	99.	69.-	60.5	52.	
3:45	99	77	61	46.5	
3:50	99	74	62	53.5	
3:54	99	75	64	48.5	



2,5-Dimethyl-2,5-dihydroxy-3-hexanone



Me-2-OH-isobutrate



production of methyl methacrylate from  
2-hydroxy isobutyric acid

purpose of work

1. To get conditions of reaction
2. To get a quantitative idea of yield

procedure & results

6.5 grams of MAOIT in 50 cc methanol

2. add 50 cc methanol

269.2 tare

215.2

54.0

Estimate 4 g.  $P_2O_5$  lost mechanically during addition

3. Temp. rises as  $P_2O_5$  added. Fizzing occurs. Brown-green color in material. Temp at  $17^\circ C$  for about 30 sec, then controlled at 10-12 C. White vapor of methanol. Solution of syrupy consistency results.

As  $P_2O_5$  is put into methanol, immediate fizzing & local heating occurs at point of addition.

4. Heavy brown syrup results. Add 3 cc methanol to allow for mechanical losses.

5. Add 2-hydroxy isobutyric acid. No appreciable heat of reaction. 52 g. acid added at temp  $3-7^\circ C$ . Wash down acid with 2 cc methanol.

Esterification with  $R_{25}$   
Distillation

2/28/47  
Sheet III

Time	Bath °C	Reflux °C	Lower Column Temp °C	Upper Column Temp °C	Press mm.	Notes
40	230	204	106	71	Atm.	Appearance of non-condensable in column. Cut

p toluene sulfonic acid 9 Kg  
if not  
fine organics  
Mr Segesseran

AB M...

Phosphorus pentoxide  
is anhydride  $\frac{1}{2}$  pure grade

Phosphorus trichloride 1# (4#)  
Ba(OH)<sub>2</sub> · 8H<sub>2</sub>O 1# Commercial

MgO anhydrous 1#

POCl<sub>3</sub> Phosphorus oxychloride  
1# No 25 of, anhydrous

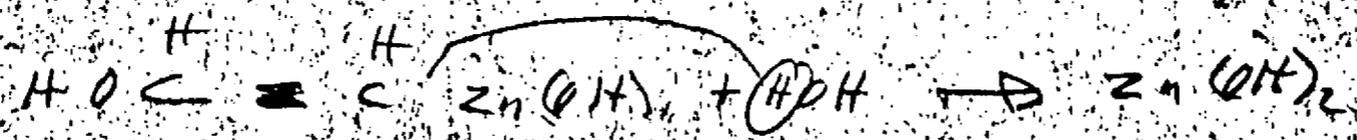
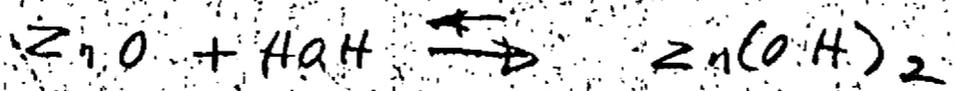
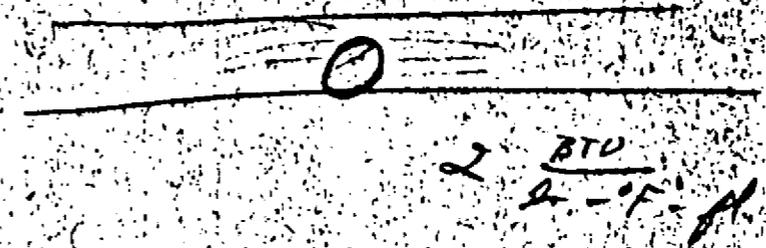
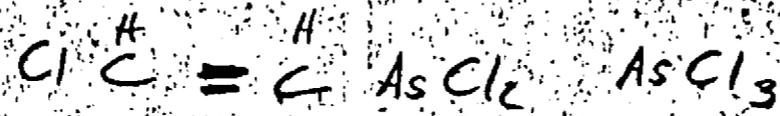
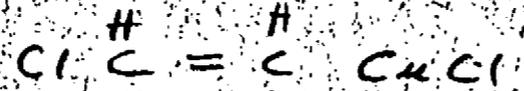
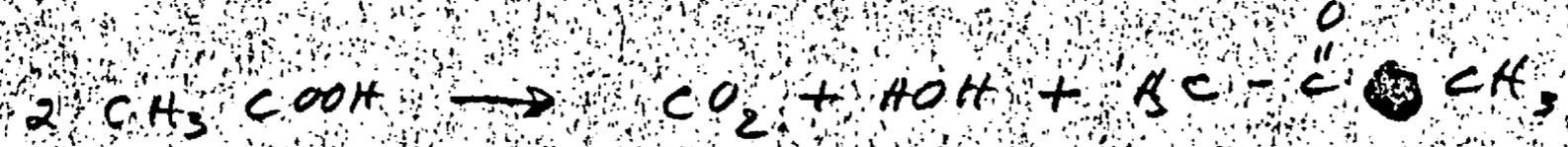
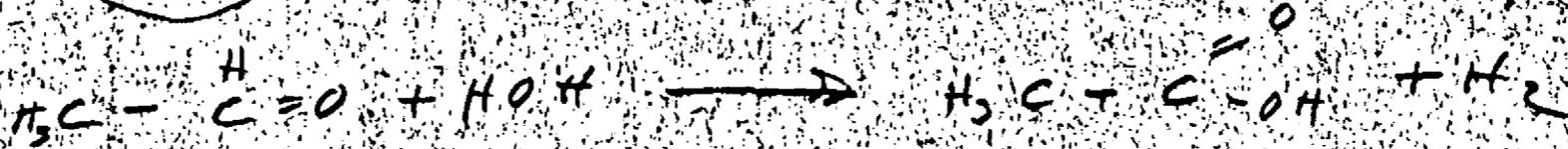
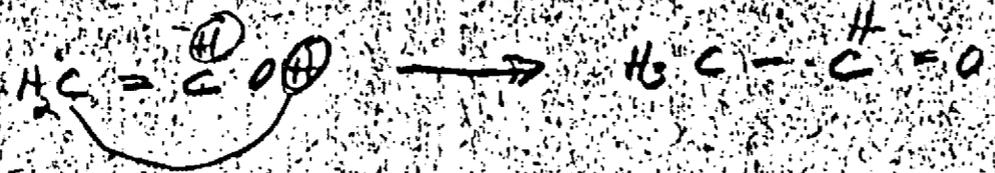
2 setups for identification - 500 cc  
flasks

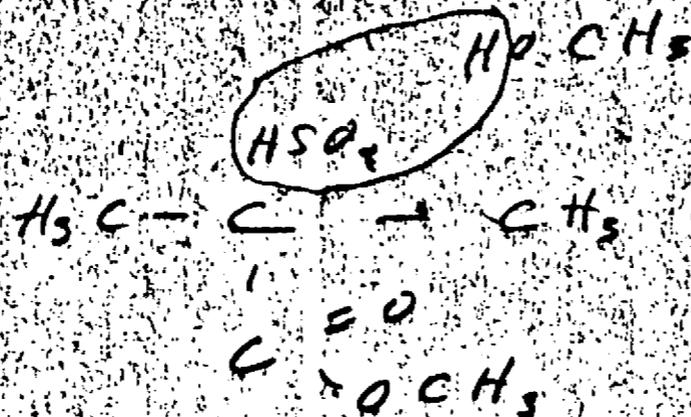
fuel for SO<sub>2</sub>, + large desiccator  
100 gms.

filter α-OH acid, + dry - try to separate  
tile

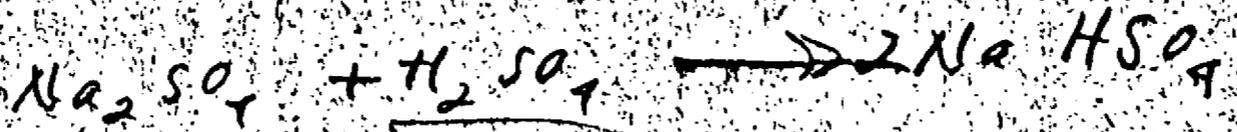


0.919

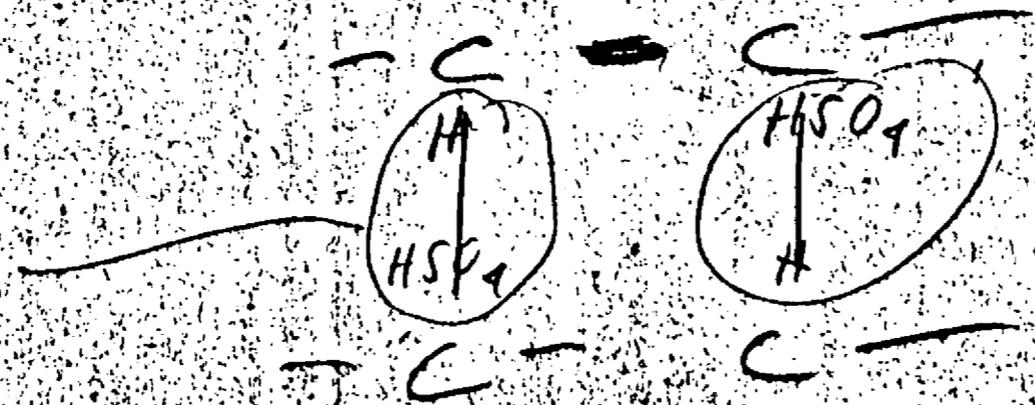




1. no esterification
  - a. silica gel
  - b. separation of the org. & inorganic acid
2. separation of ester & methanol



64 gms



59 gms. of water  
98 gms.

16 gms. - HCl

near top of column  
distal at 100 mm.

cut at -

up to 30°

30° - 65°

65° - 80°

② include weights +  
residues -  
test all cuts

③ with weak KMnO<sub>4</sub>

Hydrolysis

④ packing of tube  
with SiO<sub>2</sub> - larger  
diameter packing needed

Isobutyric Acid

from Drying

over

122  
65  

---

57  
260  

---

105

1/15/50

4109

182

182  
182  
182  
546

x 40 =

31.1  
~~31.1~~ 4109

$$\frac{31.1}{182} = 0.171 \text{ mol. vol.}$$

0.342 mol of Zn

$$= 0.342 \times 31.4 = 10.74 \text{ g Zn}$$

36  
183.4  
10.74

$$\frac{183.4 \text{ g}}{31.4 \text{ g}} \times 7.8 = 46.2$$

Zn(Ac)<sub>2</sub>

Use 80 g Zn(Ac)<sub>2</sub>

$\frac{59}{10} \times 2.26$

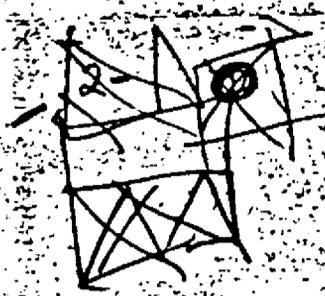
74.6  
38.3

59  
122  
179  
201  
180

147  
83

59  
226

$\frac{59}{10} \times 2.26$



$\frac{52}{2 \text{ mols}} \left\{ \begin{array}{l} 48 \\ 16 \end{array} \right.$  gms.  $\alpha$ -OH isobutyric acid  
 = 0.5 mol  
 gms. MeOH saturated with Hydrogen Chloride

0.5 mols H<sub>2</sub>O coming off

1 mol Na<sub>2</sub>SO<sub>4</sub> takes up 7 mols of H<sub>2</sub>O

$$\frac{1}{7} = \frac{x}{0.5} \Rightarrow 7x = 0.5$$

$$x = \frac{0.5}{7} = 0.07\frac{1}{7} \text{ mols Na}_2\text{SO}_4$$

Na<sub>2</sub> = 2x23 = 46  
 S = 32  
 O<sub>4</sub> = 64  


---

 142  
 0.071

0.0714  
 70 | 5000  
 490  


---

 100  
 70  


---

 300  
 280  


---

 20

142  
 994  

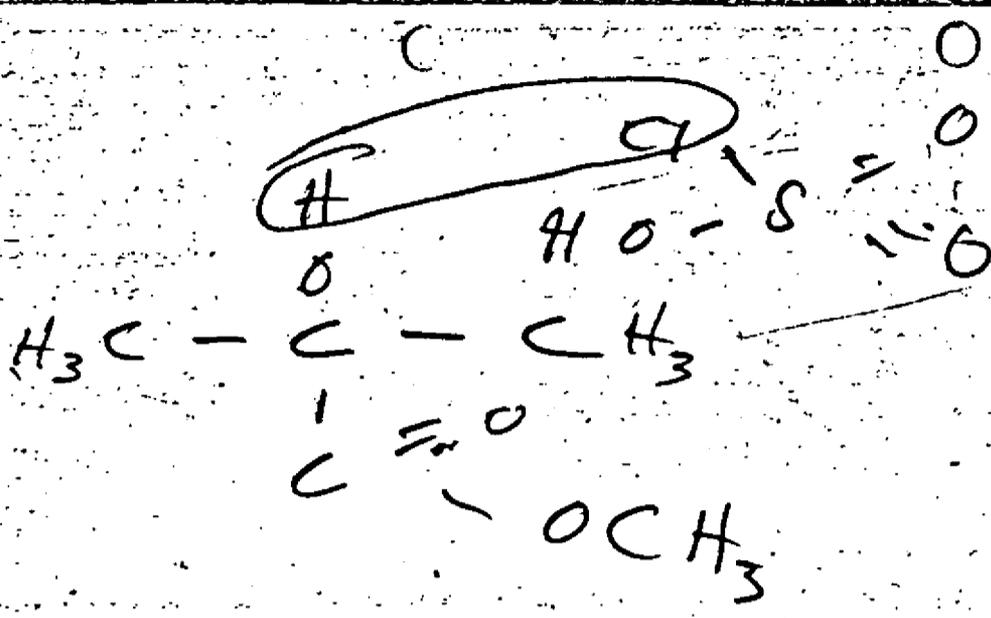

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 10.082  
 5.04  

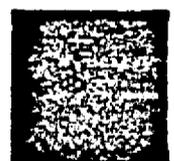
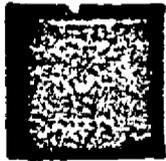

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 15.12

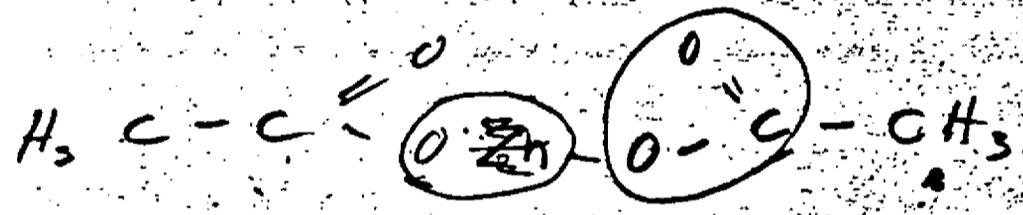
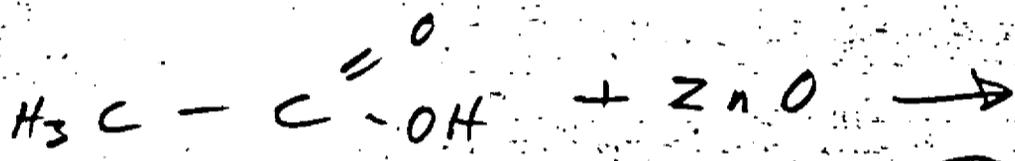
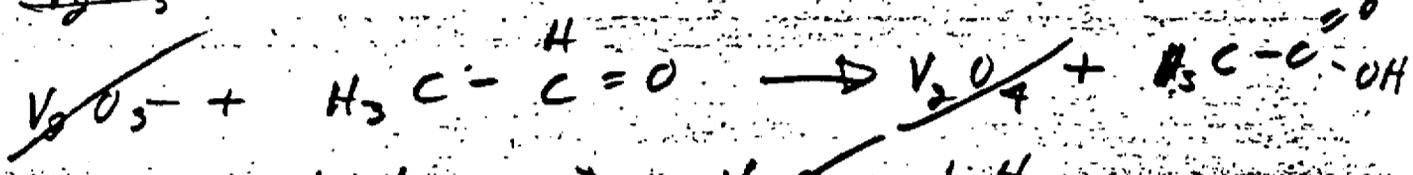
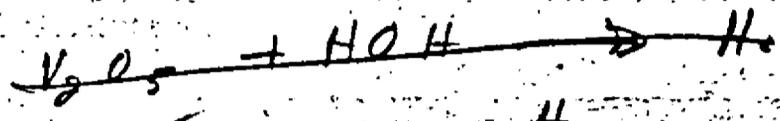
31.50



11

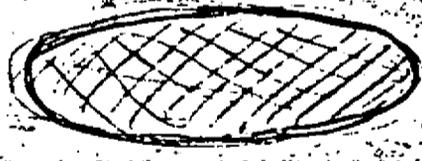


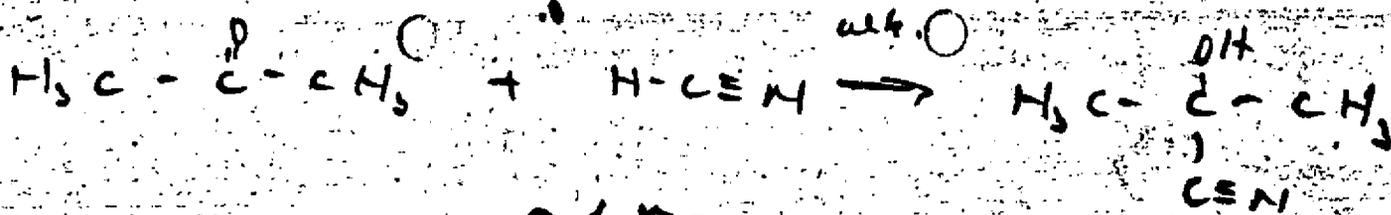
$V_2O_5$   
 $V_2O_4$   
 $V_2O_3$   
 $VO$



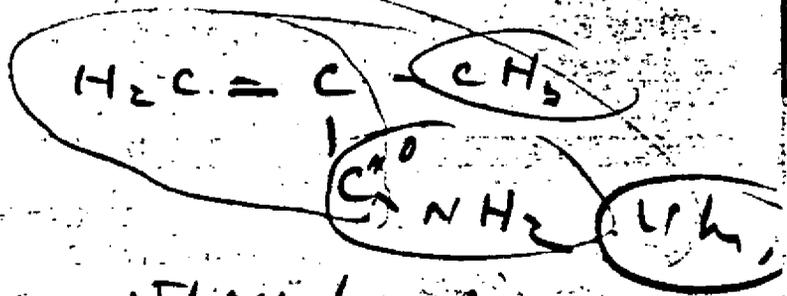
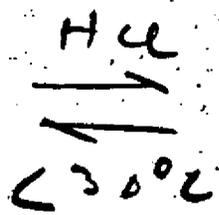
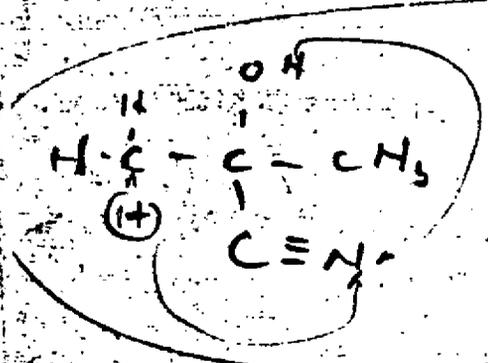
$Zn(AC)_2$

V

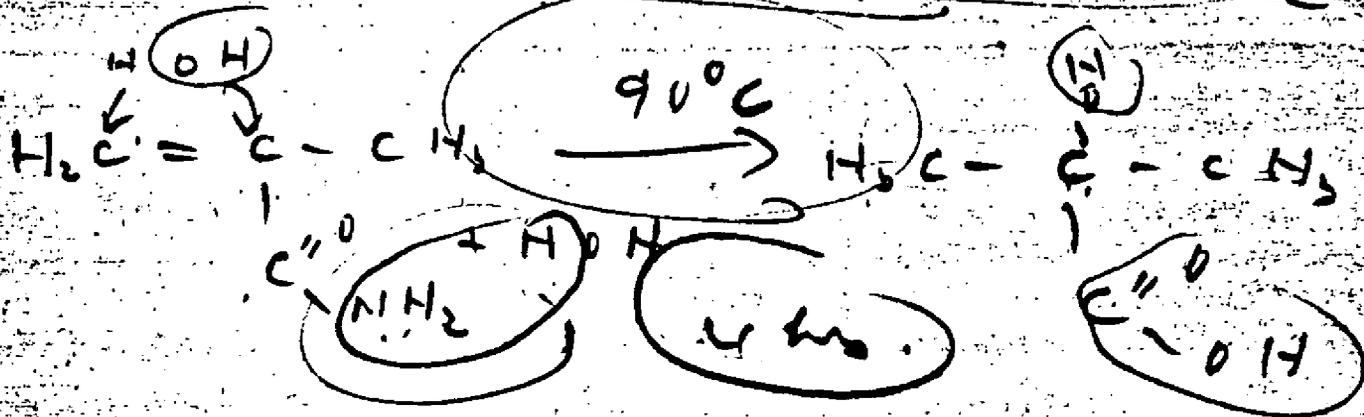




3670

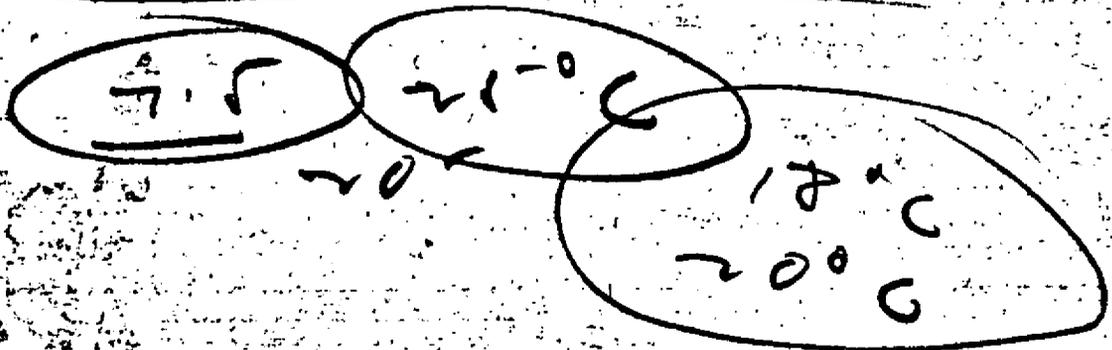


*methanamide*

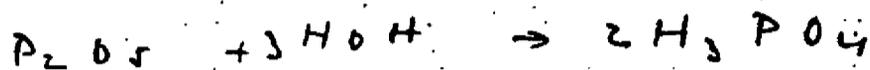


~~3670~~

*Urea - Form aldehyde - 3670*



OH's reacting with 1 P<sub>2</sub>O<sub>5</sub>  
 but 1 P<sub>2</sub>O<sub>5</sub> takes care of 3 OH's



1 mol α-OH acid requires  $\frac{2}{3}$  mol P<sub>2</sub>O<sub>5</sub>

2

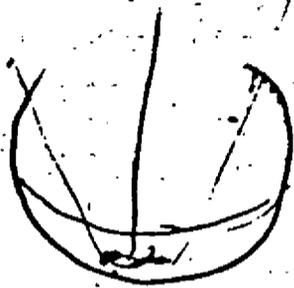
0.5 mol requires  $\frac{1}{3}$  mol P<sub>2</sub>O<sub>5</sub>

= 47.3 ans.

$$\begin{array}{r}
 57.0 \\
 \hline
 57.0
 \end{array}
 \quad
 \begin{array}{r}
 2.4 \\
 47.3 \\
 \hline
 49.7
 \end{array}
 \quad
 \textcircled{50.9}$$

$$\begin{array}{r}
 2.4 \\
 47.3 \\
 \hline
 49.7
 \end{array}$$

99 acid  
609-



76

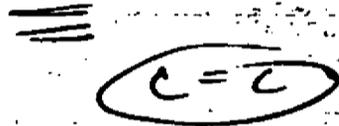
590 p. 6. 39.

99

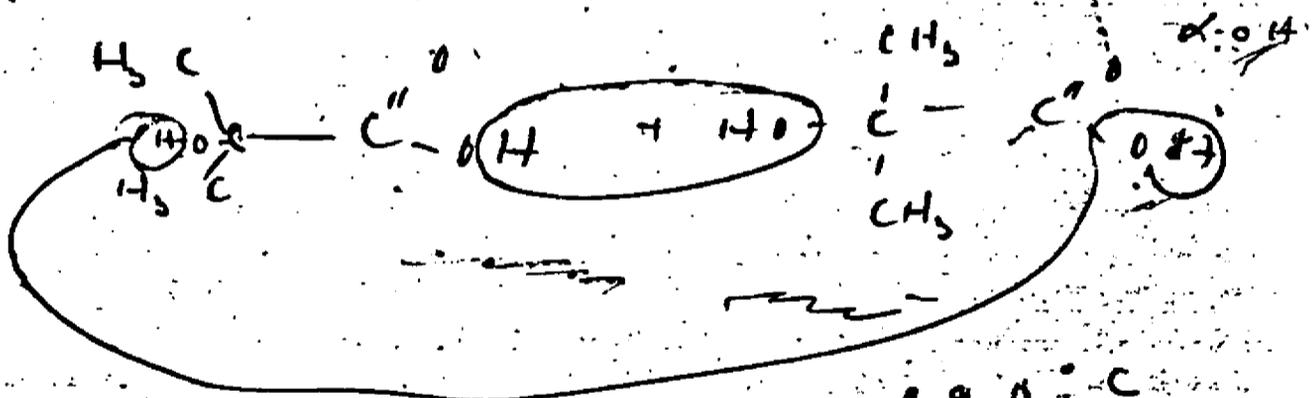


31

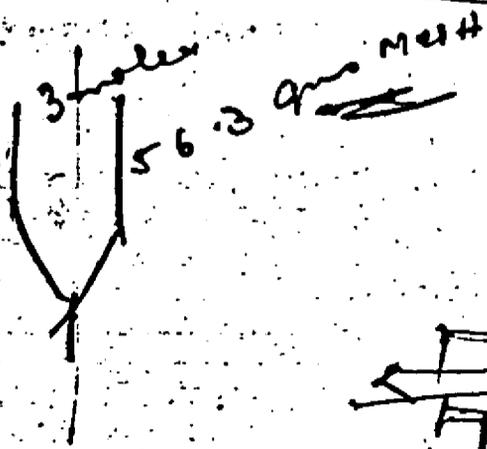
900 for Me. CD  
positive



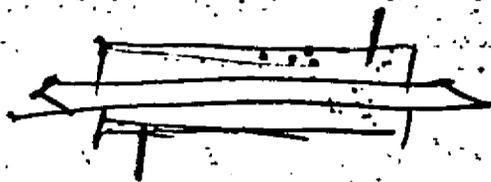
Heat up to 180 for 1 hr



190°C



1 hr



$\text{NH}_3$  Total: 2nd flask + 15.9

Start time: 1:45

$\text{N}_2$  C

2004 1 11 10 1

1 1 2

2000

~~17.25~~

25  
15

90

$$\frac{15(0.1)}{15+45}$$

~~20(1)~~

$$\frac{20(1)}{20+7} = 0.75$$

0.50      0.25  
 25 cc of 1%    15 cc of 1%  
 25 cc of K    45 cc of K  
 50              60

0.75  
~~30 cc of 1%~~  
 25 cc of 1%  
 8.33 of K  
 33.33

$$20A - 15 = 0.75x$$

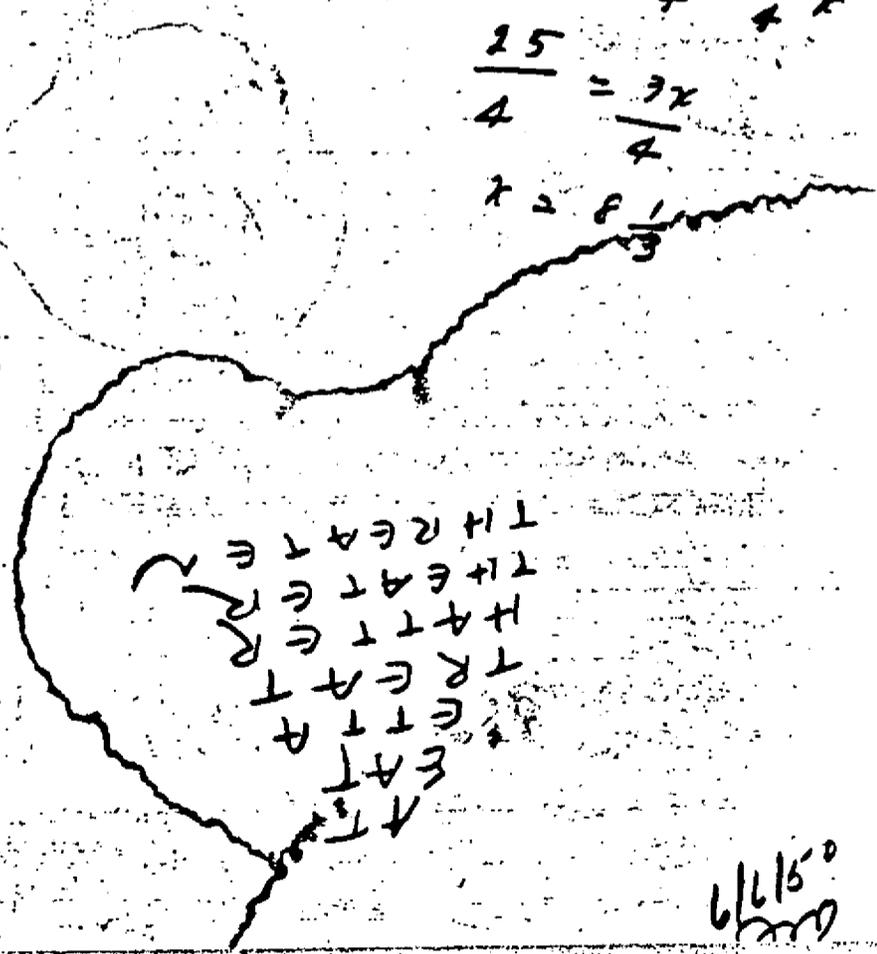
$$x = \frac{5 \times 4}{3} = \frac{20}{3}$$

$$= 6\frac{2}{3}$$

$$25 - 15 \times \frac{3}{4} = \frac{3}{4}x$$

$$\frac{25}{4} = \frac{3x}{4}$$

$$x = 8\frac{1}{3}$$



6/6/15

ARE 244.2 g  
 80 g  $\text{CHCl}_3$   
 40 g 2-OH acid

364.2 g  
 362.3 g  
 1.9 g

part after 2-OH acid  
 included  
 loss

Added 20.0 g  $\text{P}_2\text{O}_5$  at 3:20

384.2 g  
 378.5 g  
 5.7 g

at 5:00  
 so far

377.0 g  
 7.2 g

at 5:55  
 loss so far  
 added

10.0 g  $\text{P}_2\text{O}_5$  at 6:00

theoretical total wt. = 394.2 g  
 384.6 g  
 284.8 g  
 151.9 g

added more  
 2.6 g 2-OH acid  
 weight

425.0 g  
 423.0 g

119

7  $\frac{20}{100}$   
 8  $\frac{20}{100}$   
 9  $\frac{20}{100}$   
 10  $\frac{20}{100}$

10.55 added 20g  $\text{P}_2\text{O}_5$   
 on 11:00  
 10.55 added 20g  $\text{P}_2\text{O}_5$

at 10:15 AM. Wednesday 4/15/78

	flask temp	column bottom	column top	mm
(79)	300	270	230	100
distils	41	37	28	100
1st fraction			350	100
<hr/>				
2nd fraction	43	42	40	100
	45	43	41	100
(1179)	44			
	46	46	44	100
	47	47	44	100
	50	50	46	100
	51	53	51	100
	57	57	53	100
	60	62	55	100
	63	67	57	100
<hr/>				
3rd fract 149	67	67	57-60	100

Chart 125

125  
56  
67

Feet Term	Bottom M. C.	Top of Column	Feet
42	26	31	100
44	28	31	100
45	30	33	100
45	30	34	100
48	32	30	100
49	33	30	100
49	33	30	100
50	33	30	100
52	36	40	100
50	36	31	100
55	37	42	100
58	38	43	100
59	40	43	100
62	50	44	100

refractive index

1.3830 at 23°

6/6