

Diagrams explanatory of the chemical decompositions of the London Pharmacopœia, and of the various processes used in medical chemistry necessary to be known by students preparing for examination at Apothecaries Hall. / By Thomas Harper Whitaker.

Contributors

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CHEMICAL DIAGRAMS
OF THE
LONDON PHARMACOPEIA

WHITAKER.

A. 6

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George Simpson Junr

The gift of Mr. M. M.

June 1847

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DIAGRAMS

EXPLANATORY OF THE

John Davidson M.D.

CHEMICAL DECOMPOSITIONS

*London
1854*

OF THE

LONDON PHARMACOPŒIA,

AND OF

THE VARIOUS PROCESSES USED IN MEDICAL
CHEMISTRY

NECESSARY TO BE KNOWN BY STUDENTS

PREPARING FOR EXAMINATION AT APOTHECARIES' HALL.

By THOMAS HARPER WHITAKER,

MEMBER OF THE ROYAL COLLEGE OF SURGEONS IN LONDON; LICENTIATE OF THE
WORSHIPFUL COMPANY OF APOTHECARIES;
PRIVATE TEACHER OF MEDICINE, SURGERY, ETC.

LONDON:

JOSEPH BUTLER,

MEDICAL BOOKSELLER AND PUBLISHER,

4, ST. THOMAS'S STREET, SOUTHWARK.

MDCCCXXXIX.

THE UNIVERSITY OF CHICAGO

1892

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1892

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

G. WOODFALL, ANGEL COURT SKINNER STREET LONDON.

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PREFACE.

IN compiling this little Work it has been my object to exhibit to the Medical Student, in as brief and perspicuous a manner as possible, the nature of the processes used in medical chemistry. I have confined myself to the use of diagrams alone in illustrating such processes as are met with in the Pharmacopœia, leaving the Student to consult the excellent Work of Mr. Phillips for a more detailed explanation; but of those which are adopted in the preparation of articles of the *Materia Medica*, and in the detection of Poisons, I have added short accounts, carefully drawn from the most authentic sources.

The figures used in the construction of the Diagrams relate to the number and not to the weights of the equivalents; the student, however, must not suppose that a knowledge of the atomic weights of bodies is deemed unnecessary; far otherwise; I therefore recommend him to study attentively the Table given at the end, displaying the classes into which simple bodies have been divided by chemists, their names, the weight of their equivalents, their specific gravity, and the compounds which they form with oxygen. By committing to memory these particulars respecting the more common simple substances, the progress of the Student will be greatly facilitated.

T. H. WHITAKER.

1, Maze Pond, Southwark,
June 29, 1839.

ARTICLE

The first part of the report is devoted to a general survey of the situation in the country at the present time. It is found that the country is in a state of general depression, and that the people are suffering from want and distress. The cause of this is attributed to the war, and to the measures taken by the Government to support it. It is suggested that the Government should take steps to relieve the suffering of the people, and to restore the country to a state of prosperity.

The second part of the report is devoted to a detailed account of the operations of the Government during the year. It is found that the Government has been successful in carrying out its policy, and that the country is now in a state of general prosperity. It is suggested that the Government should continue its policy, and that it should take steps to improve the country further.

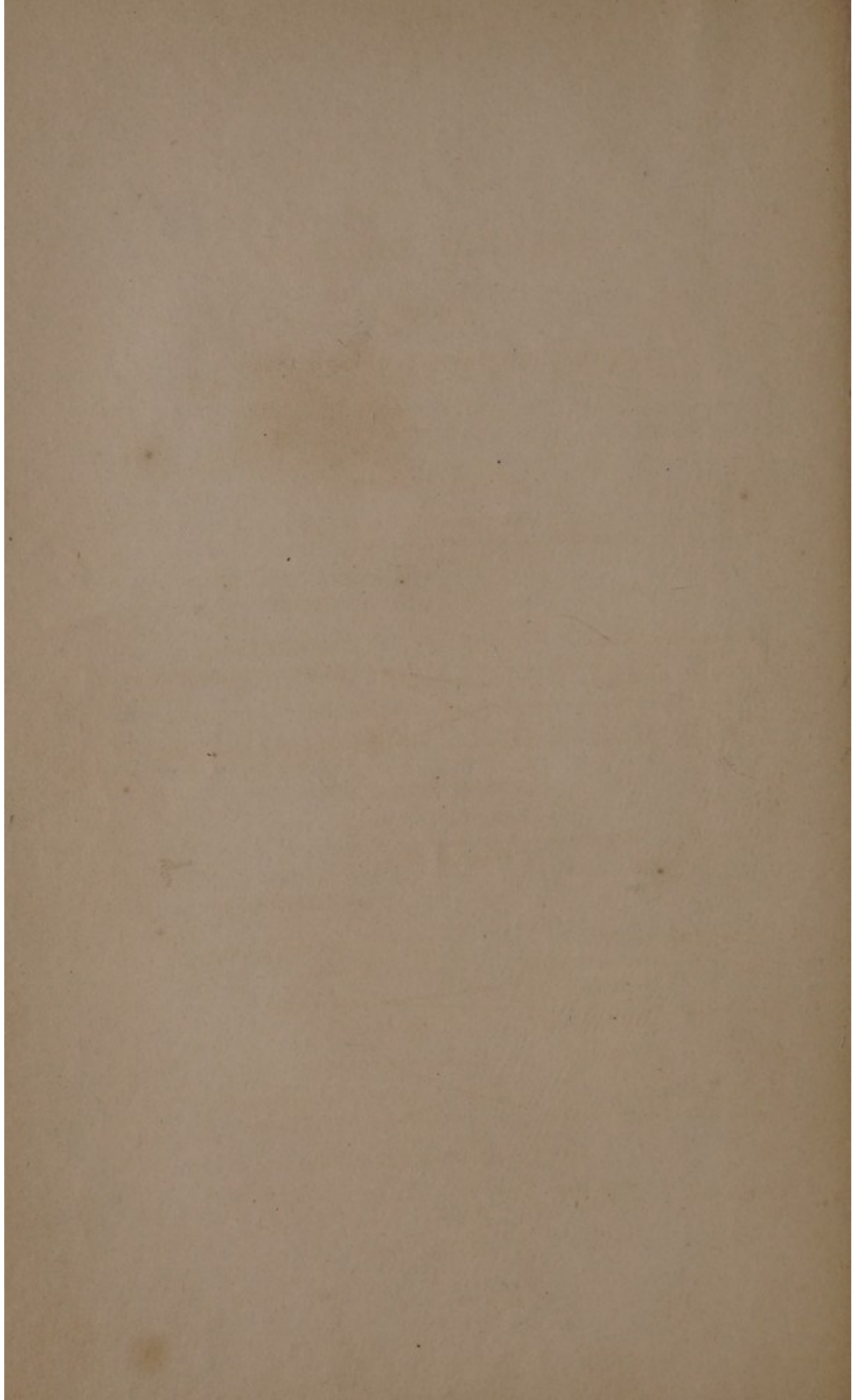
J. H. WINTHROP

London, 1867

CHURCH OF ENGLAND

LONDON

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CHEMICAL DIAGRAMS

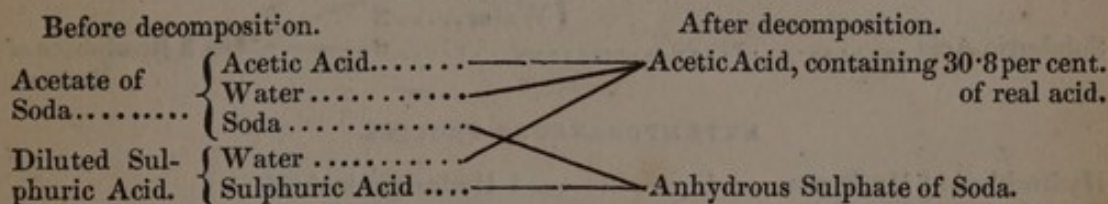
OF THE

LONDON PHARMACOPŒIA.

ACIDUM ACETICUM.

Composition. $\left\{ \begin{array}{l} 4 \text{ Carbon} \dots = 24 \\ 3 \text{ Oxygen} \dots = 24 \\ 3 \text{ Hydrogen} \dots = 3 \end{array} \right.$

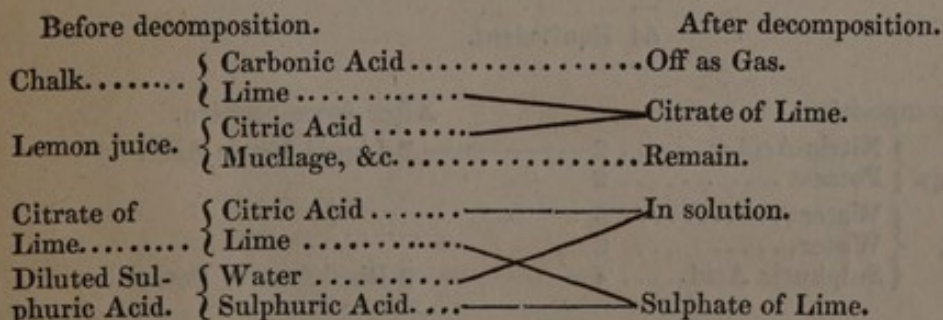
—
51 Equivalent.
—



ACIDUM CITRICUM.

Composition. $\left\{ \begin{array}{l} 4 \text{ Carbon} \dots = 24 \\ 4 \text{ Oxygen} \dots = 32 \\ 2 \text{ Hydrogen} \dots = 2 \end{array} \right.$

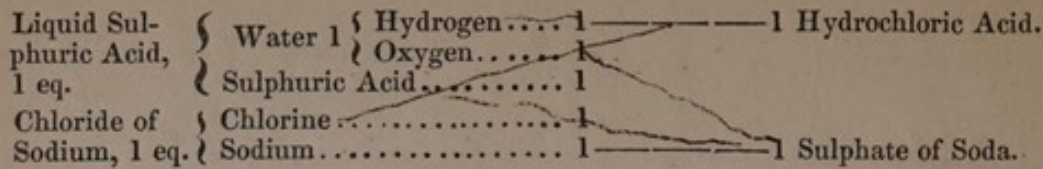
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58 Equivalent.
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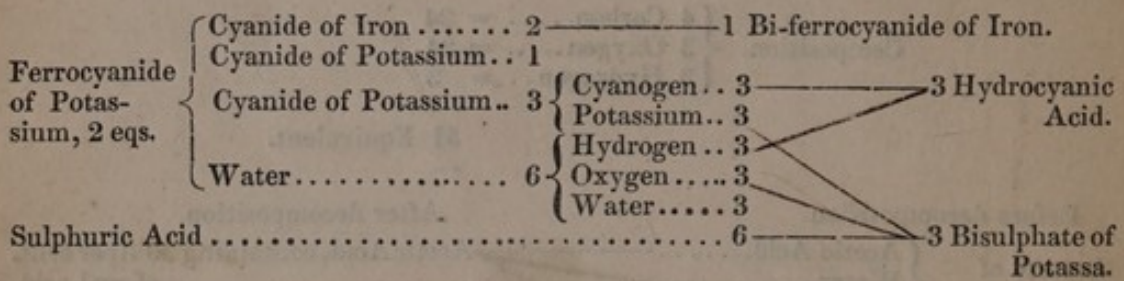
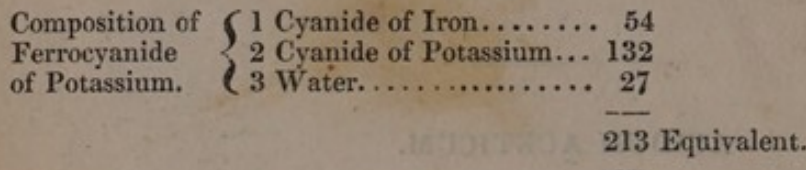
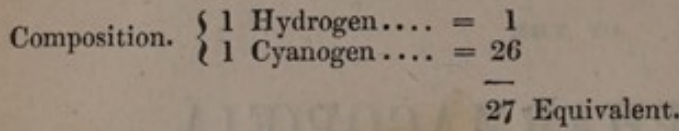
ACIDUM HYDROCHLORICUM.

Composition. $\left\{ \begin{array}{l} 1 \text{ Hydrogen} \dots = 1 \\ 1 \text{ Chlorine} \dots = 36 \end{array} \right.$

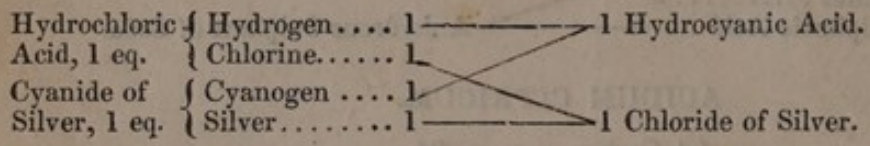
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37 Equivalent.
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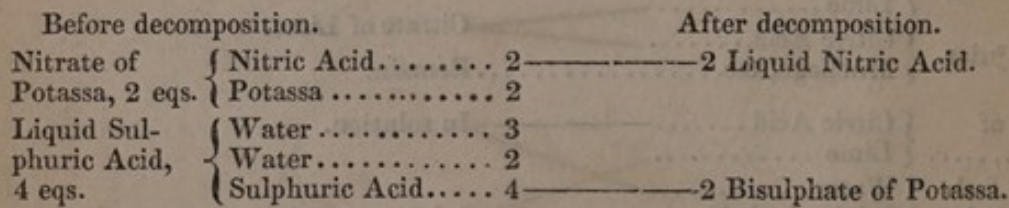
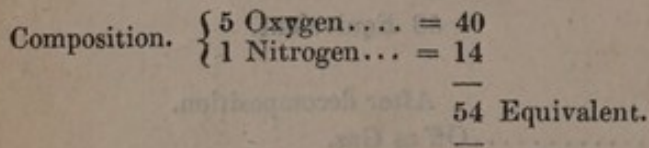
ACIDUM HYDROCYANICUM.



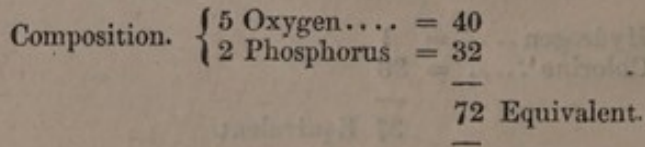
EXTEMPORANEOUS PROCESS.

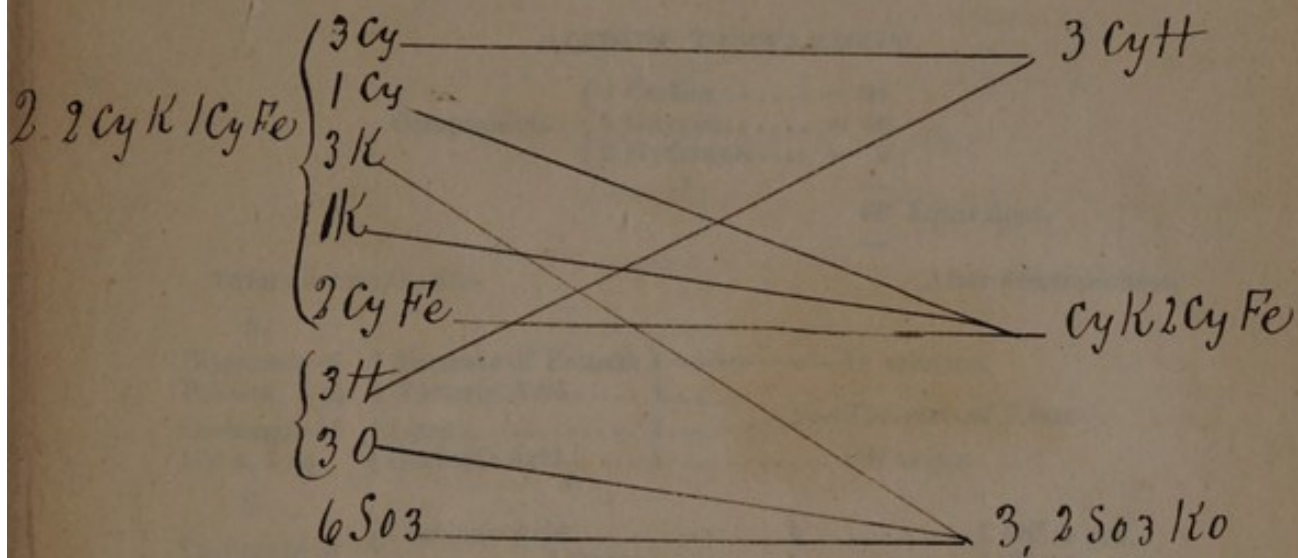


ACIDUM NITRICUM.



ACIDUM PHOSPHORICUM.





1000
1000
1000
1000
1000
1000
1000
1000
1000
1000

Nitric Acid. { Nitric Oxide..... Off as Nitrous Acid Gas.
 { Oxygen.....
 Phosphorus..... ————— Phosphoric Acid.

ACIDUM TARTARICUM.

Composition. { 4 Carbon = 24
 { 5 Oxygen..... = 40
 { 2 Hydrogen = 2
 —————
 66 Equivalent.

Before decomposition.

After decomposition.

A.

Bitartrate of Potassa, 1 eq. { Tartrate of Potassa 1 ————— In solution.
 { Tartaric Acid 1 ————— Tartrate of Lime.
 Carbonate of Lime, 1 eq. { Lime 1 ————— Tartrate of Lime.
 { Carbonic Acid..... 1 Off as gas.

B.

Carbonate of Lime, 1 eq. { Carbonic Acid..... 1 1 Off as gas
 { Lime ... 1 { Oxygen 1 ————— 1 Water
 { Calcium 1 ————— Chloride of Calcium.
 Hydrochloric Acid, 1 eq... { Hydrogen..... 1 ————— Chloride of Calcium.
 { Chlorine 1 ————— Chloride of Calcium.

C.

Chloride of Calcium, 1 eq. { Chlorine..... 1 ————— 1 Chloride of Potassium.
 { Calcium 1 ————— Chloride of Potassium.
 Tartrate of Potassa, 1 eq. { Potassa 1 { Potassium .. 1 ————— 1 Tartrate of Lime.
 { Tartaric Acid..... 1 { Oxygen..... 1 ————— 1 Tartrate of Lime.

D.

Tartrate of Lime. { Tartaric Acid..... ————— In solution.
 { Lime..... ————— Sulphate of Lime.
 Diluted Sulphuric Acid. { Water..... ————— Sulphate of Lime.
 { Sulphuric Acid..... ————— Sulphate of Lime.

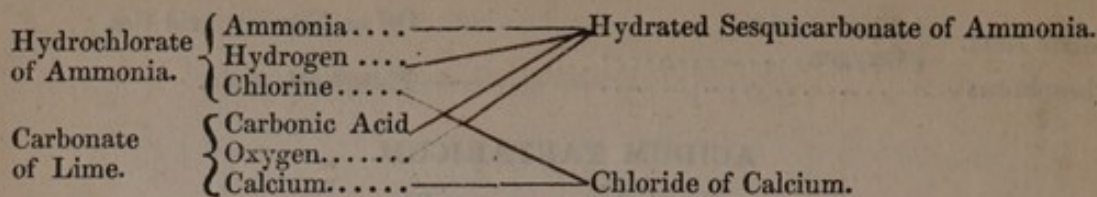
LIQUOR AMMONIÆ.

Composition of Ammoniacal Gas. { 1 Nitrogen..... = 14
 { 3 Hydrogen..... = 3
 —————
 17 Equivalent.

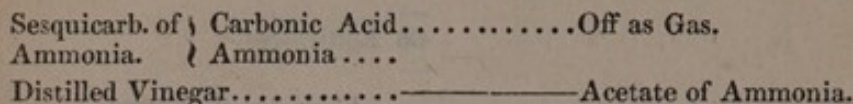
Hydrochlorate of Ammonia. { Ammonia.... ————— Liquor Ammonia.
 { Hydrogen....
 { Chlorine.....
 Lime. { Oxygen..... ————— Chloride of Calcium.
 { Calcium..... ————— Chloride of Calcium.

AMMONIÆ SESQUICARBONAS.

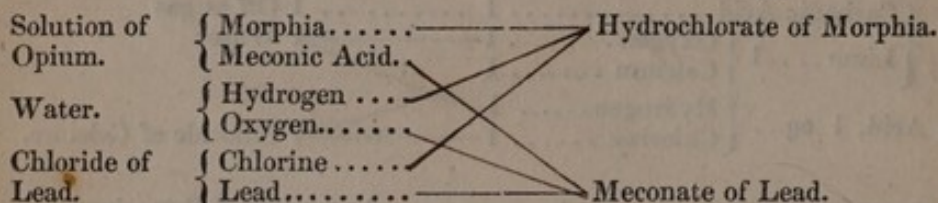
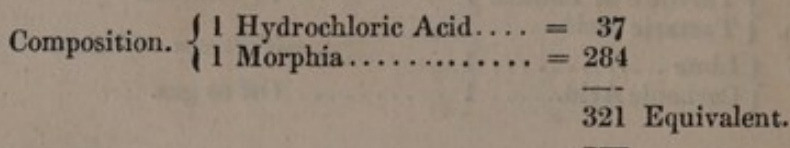
Composition. { 1½ Carbonic Acid.... = 33
 { 1 Ammonia..... = 17
 { 1 Water..... = 9
 —————
 59 Equivalent.



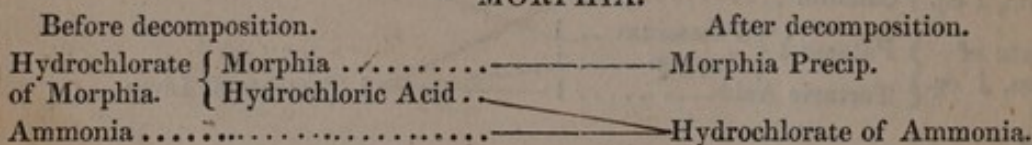
LIQUOR AMMONIÆ ACETATIS.



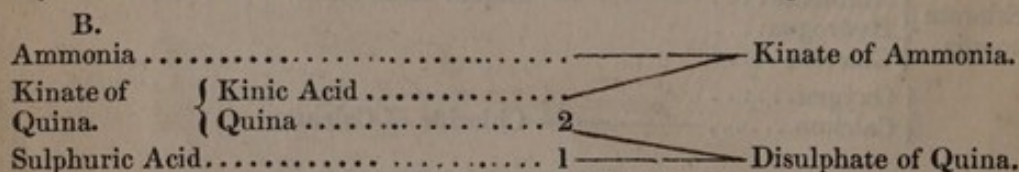
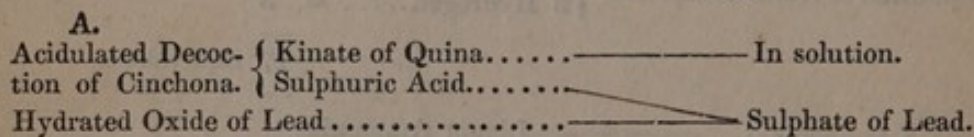
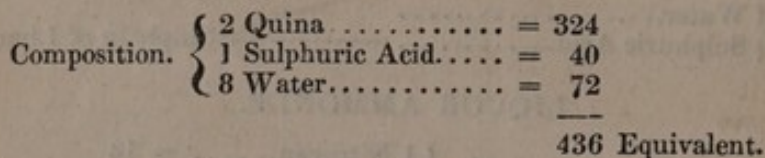
MORPHIÆ HYDROCHLORAS.



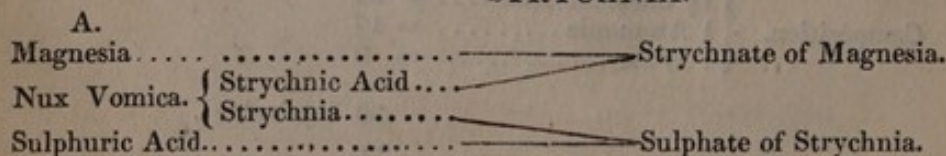
MORPHIA.

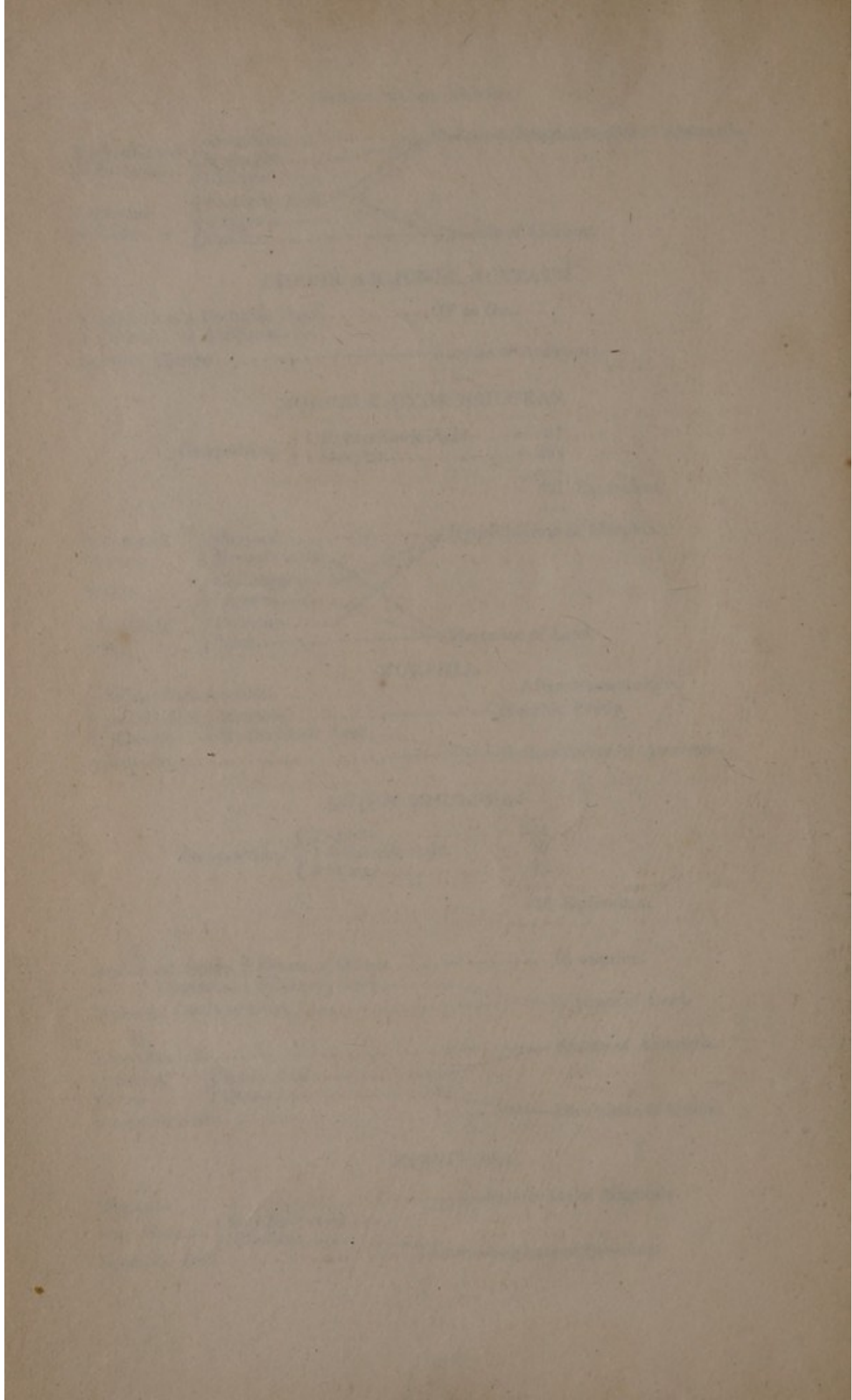


QUINÆ DISULPHAS.



STRYCHNIA.





B.
 Ammonia Sulphate of Ammonia.
 Sulphate of Strychnia. { Sulphuric Acid.....
 Strychnia. { Strychnia Strychnia precipitated.

VERATRIA.

A.
 Gallate of Veratria. { Gallic Acid..... Super gallate of Veratria.
 Veratria.....
 Sulphuric Acid..... Sulphate of Veratria.

B.
 Magnesia..... Gallate of Magnesia.
 Magnesia..... Sulphate of Magnesia.
 Super gallate and Sulphate of Veratria. { Gallic Acid.....
 Sulphuric Acid...
 Veratria..... Sulphate of Veratria.
 Sulphuric Acid.....

C.
 Ammonia..... Sulphate of Ammonia.
 Sulphate of Veratria. { Sulphuric Acid.....
 Veratria..... Veratria precipitated.

ÆTHER SULPHURICUS.

Composition. { 4 Carbon.... = 24
 1 Oxygen.... = 8
 5 Hydrogen.. = 5

 37 Equivalent.

Before decomposition.		After decomposition.	
Sulphovinic Acid, 1 eq.	{	Alcohol 2.	Carbon..... 4 -----> 1 Æther distills over.
			Hydrogen.... 5 ----->
			Hydrogen.... 1 ----->
			Oxygen..... 1 ----->
			Oxygen..... 1 ----->
Sulphuric Acid..... 2 -----> Remain in the retort.			

CORNU USTUM.

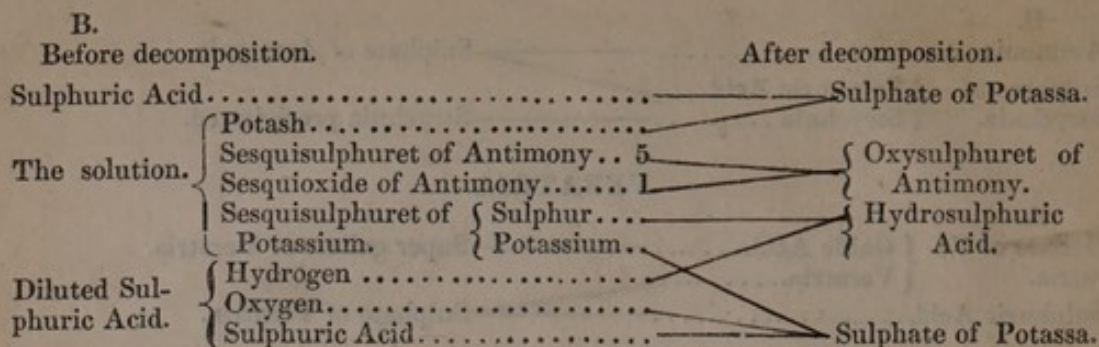
Horn. { Gelatine..... Driven off by heat.
 Phosphate of Lime ----- Remains.

ANTIMONII OXYSULPHURETUM.

A.
 Composition. { 1 Sesquioxide of Antimony..... = 77
 5 Sesquisulphuret of Antimony..... = 445
 8 Water..... = 72

 594 Equivalent.

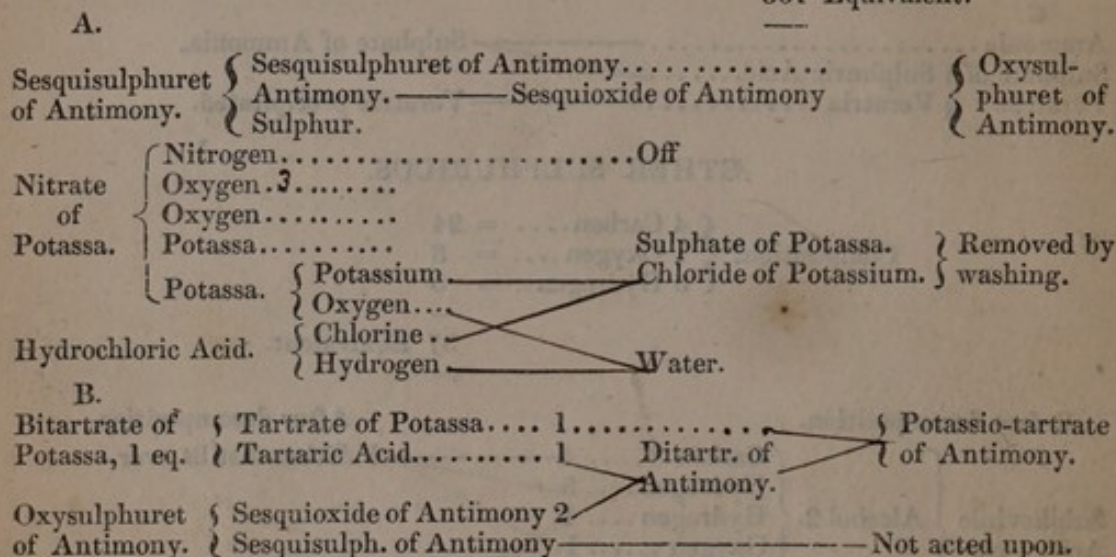
Sesquisulphur. of Antimony, 6 eq.	{	Sesquisulphuret of Antimony..... 5	{	Held in solution by Potassa.
		Antimony.. 1 -----> Sesquioxide of Antimony..... 1		
		Sulphur... 1½ ----->		
Potassa, 1½ eq.	{	Oxygen.... 1½ -----> Sulphuret of Potassium..... 1		
		Potassium. 1½ ----->		



ANTIMONII POTASSIO-TARTRAS.

Composition.	{ 1 Tartrate of Potassa..... = 114
	{ 1 Ditartrate of Antimony.... = 220
	{ 3 Water..... = 27

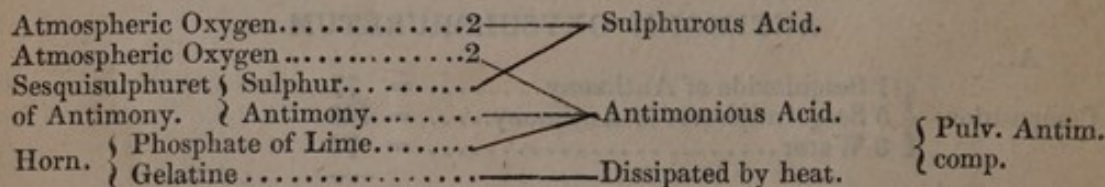
	361 Equivalent.



PULVIS ANTIMONIALIS COMPOSITUS.

Composition.	{ Antimonious Acid.... = 35 parts.
	{ Phosphate of Lime.... = 65

	100

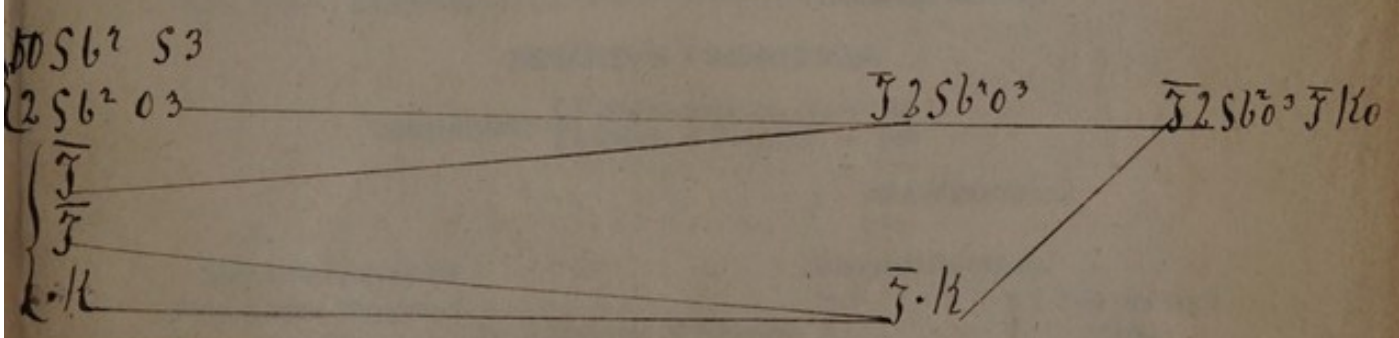
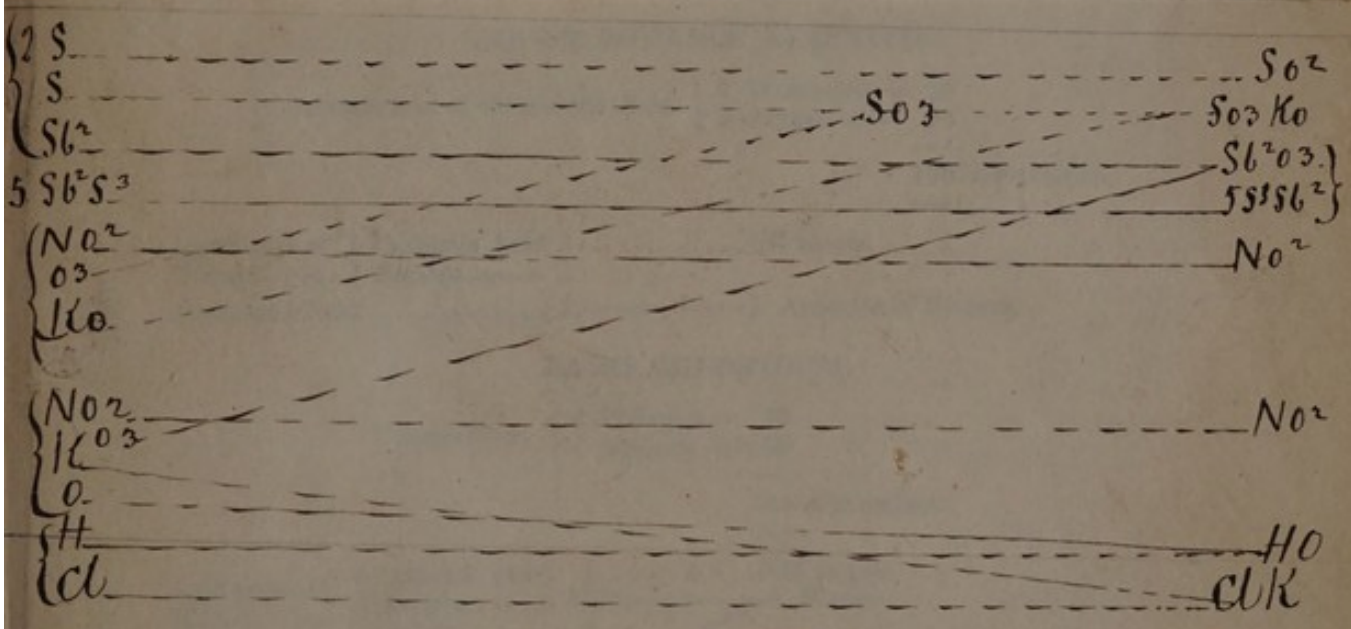
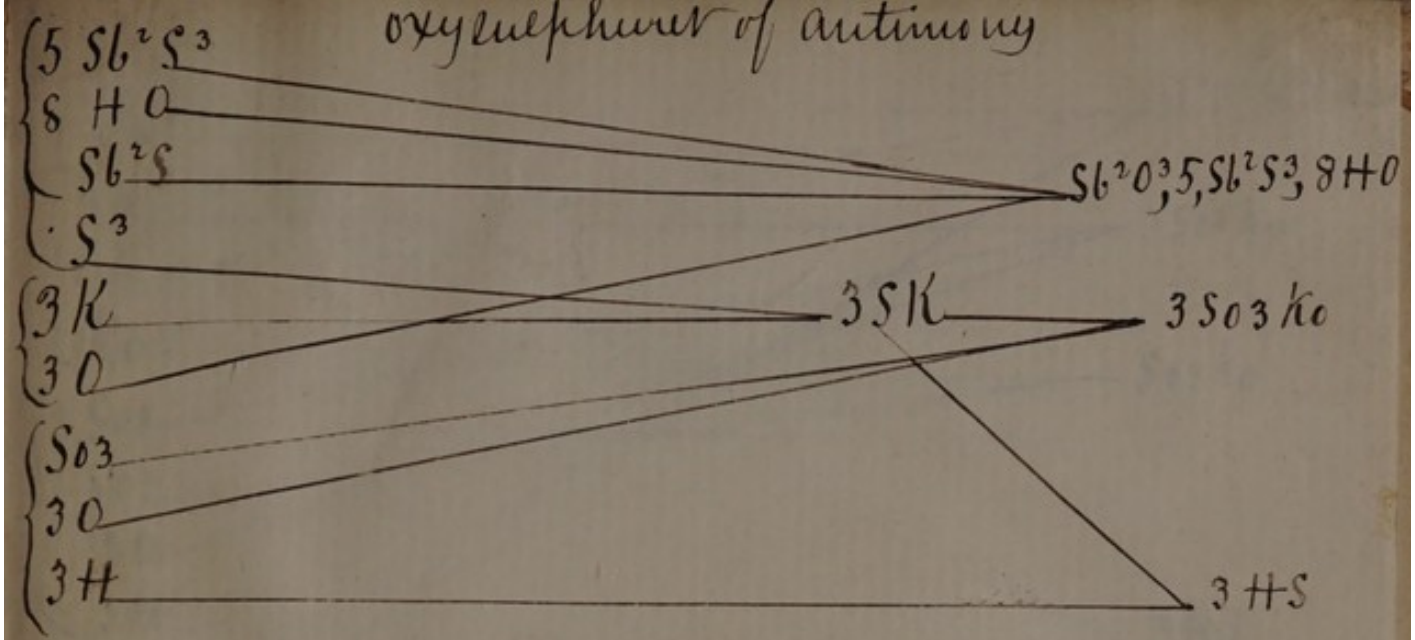


ARGENTI NITRAS.

Composition.	{ 1 Nitric Acid.... = 54
	{ 1 Oxide of Silver. = 116

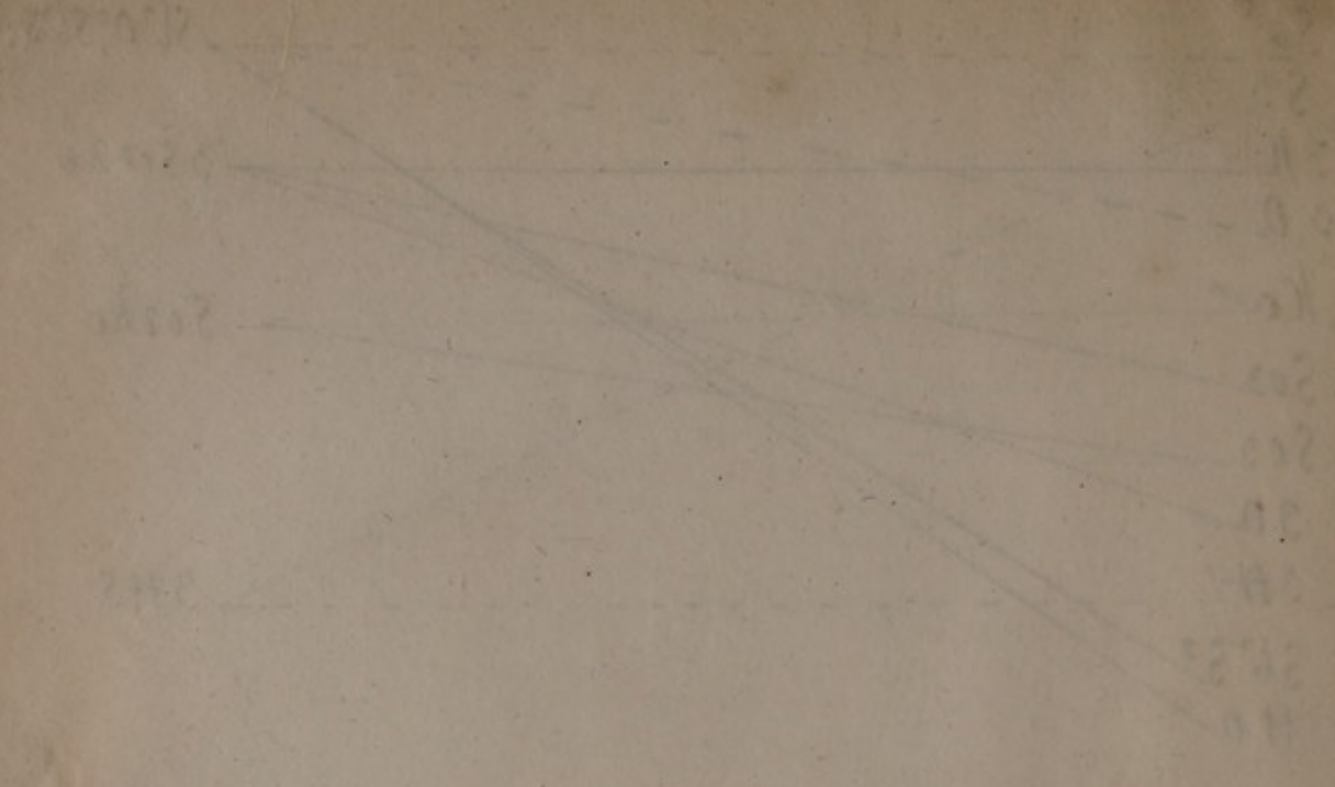
	170 Equivalent,

oxyphosphur of antimony



Tests

H S. orange yellow $Sb^2 S^3$



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Atmospheric Oxygen.....	2	-----	1 Nitrous Acid Gas.
Nitric Acid, { 4 eqs. {	Nitric Acid 1 {	Binoxide of Nitrogen 1	
	Nitric Acid.....	Oxygen.....	3
Silver	3	-----	3 Nitrate of Silver.

ARGENTI CYANIDUM.

Composition. {	1 Cyanogen = 26
	1 Silver = 108

	134 Equivalent.

Before decomposition.		After decomposition.	
Nitrate of silver, 1 eq. {	Nitric Acid 1	-----	Free.
	Oxygen.... 1	-----	1 Water.
	Silver 1	-----	
Hydrocyanic Acid, 1 eq. {	Hydrogen... 1	-----	
	Cyanogen... 1	-----	1 Cyanide of Silver.

LIQUOR POTASSÆ ARSENITIS.

Composition of Arsenious Acid. {	2 Arsenicum = 76
	3 Oxygen .. = 24

	100 Equivalent.

Carbonate of Potassa, 1 eq. {	Carbonic Acid 1.....	Off as gas.
	Potassa 1	
Arsenious Acid	1	-----
		1 Arsenite of Potassa.

BARI CHLORIDUM.

Composition. {	1 Chlorine = 36
	1 Barium = 68

	104 Equivalent.

Carbonate of Baryta, 1 eq. {	Carbonic Acid.. 1.....	Off as gas.
	Oxygen 1	-----
	Barium 1	-----
Hydrochloric Acid, 1 eq. {	Hydrogen..... 1	-----
	Chlorine..... 1	-----
		1 Chloride of Barium.

BISMUTHI TRISNITRAS.

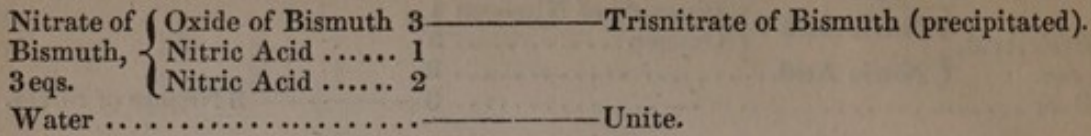
Composition. {	1 Nitric Acid = 54
	3 Oxide of Bismuth = 240

	294 Equivalent.

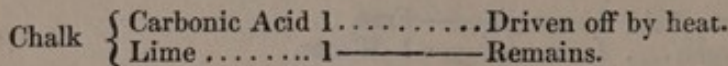
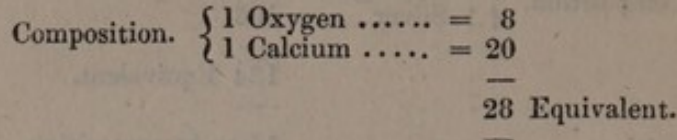
A.

Before decomposition.		After decomposition.	
Atmospheric Oxygen	2	{	1 Nitrous Acid
Nitric Acid, { 4 eqs. {	Nitric Acid 1 {		Binoxide of Nitrogen 1
	Nitric Acid.....	Oxygen.....	3
Bismuth	3	{	3 Nitrate of Bis-
			muth.

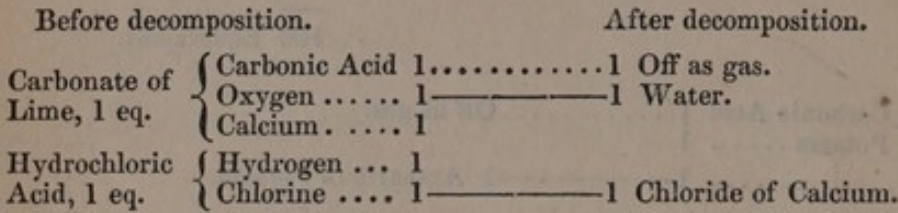
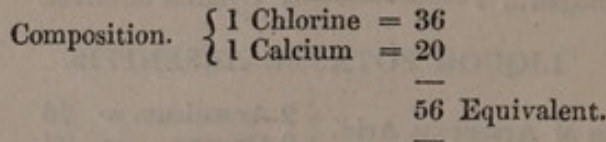
B.



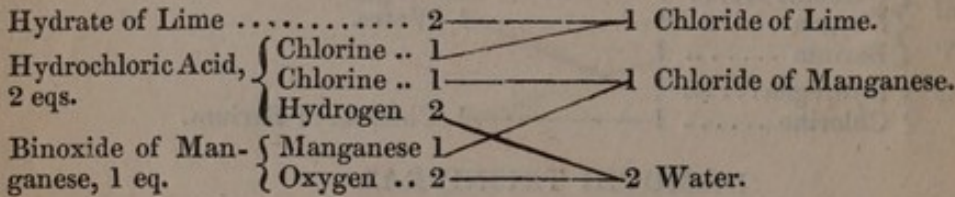
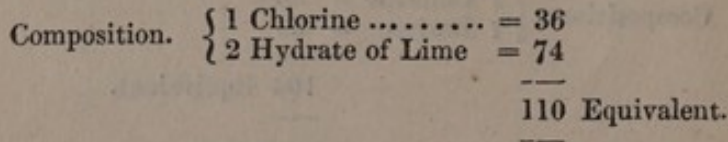
CALX.



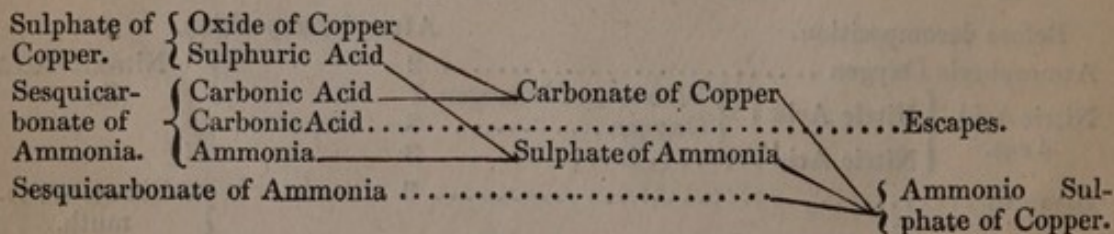
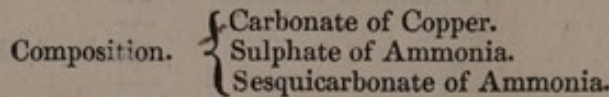
CALCII CHLORIDUM.



CALX CHLORINATA.



CUPRI AMMONIO-SULPHAS.



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Third section of faint, illegible text, continuing the document's content.

Fourth section of faint, illegible text, possibly a signature or closing.

Fifth section of faint, illegible text, appearing as a list or series of points.

Sixth section of faint, illegible text at the bottom of the page.

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FERRI SULPHAS.

Composition of the Crystals.	{	1 Sulphuric Acid.... = 40	
		1 Protoxide of Iron.. = 36	
		7 Water = 63	
		139 Equivalent.	

Water, 1 eq.	{	Hydrogen.... 1	Off as Gas.
		Oxygen..... 1	
Iron		1	
Sulphuric Acid		1	1 Sulphate of Iron.

FERRI SESQUIOXYDUM.

Composition.	{	3 Oxygen = 24	
		2 Iron... = 56	
		80 Equivalent.	

Before decomposition.		After decomposition.	
Carbonate of Soda, 1 eq.	{	Soda 1	1 Sulphate of Soda.
		Carbonic Acid 1	
Sulphate of Iron, 1 eq.	{	Sulphuric Acid 1	
		Oxide of Iron 1	1 Carbonate of Iron.

By exposure to the atmosphere while being washed and dried, the carbonate of iron loses its carbonic acid and acquires a larger quantity of oxygen, thus becoming a sesquioxide.

Air.	{	Nitrogen	Free.
		Oxygen.....	
Carbonate of Iron.	{	Oxyde of Iron	Sesquioxide of Iron.
		Carbonic Acid.....	Free.

TINCTURA FERRI SESQUICHLORIDI.

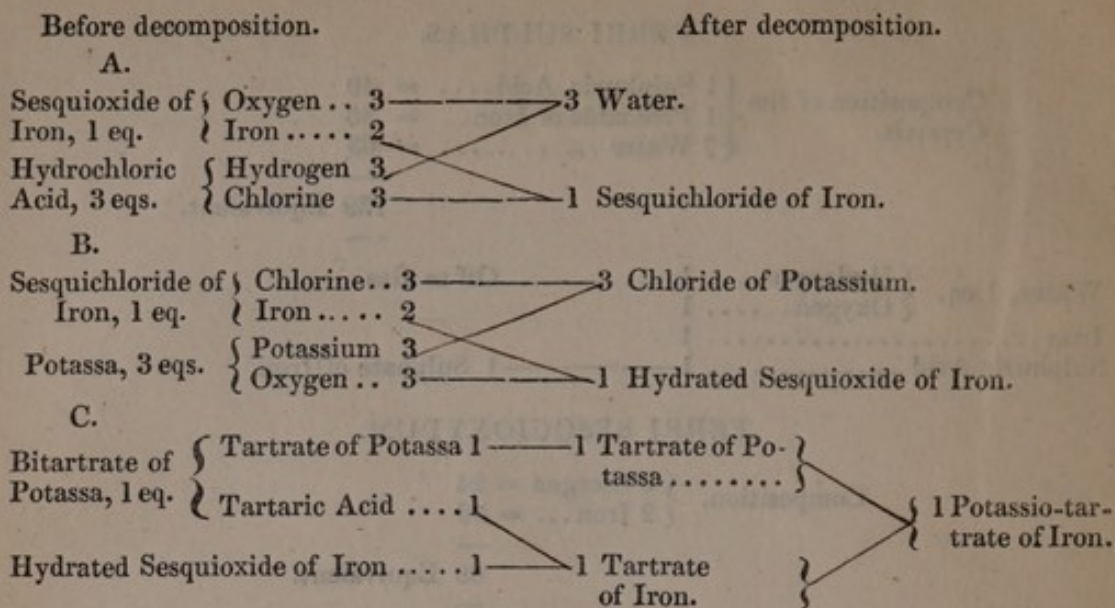
Composition of Ses- quichloride of Iron.	{	1½ Chlorine 54	
		1 Iron.... 28	
		82 Equivalent.	

Hydrochloric Acid, 3 eqs.	{	Hydrogen.... 3	3 Water.
		Chlorine.... 3	
Sesquioxide of Iron, 1 eq.	{	Oxygen 3	
		Iron..... 2	1 Sesquichloride of Iron.

The Sesquichloride dissolved in rectified spirit, forms the Tinct. Ferri Sesquichloridi.

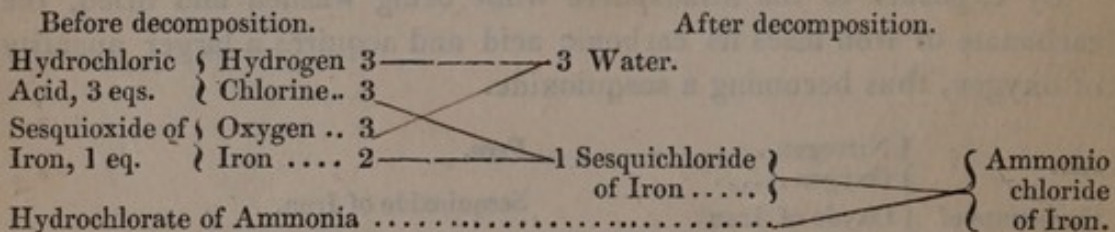
FERRI POTASSIO-TARTRAS.

Composition.	{	1 Tartrate of Potassa 114	
		1 Tartrate of Sesquioxide of Iron 106	
		220 Equivalent.	



FERRI AMMONIO CHLORIDUM.

Composition.	{	Sesquichloride of Iron	15 Parts.
		Hydrochlorate of Ammonia	85
			100



FERRI IODIDUM.

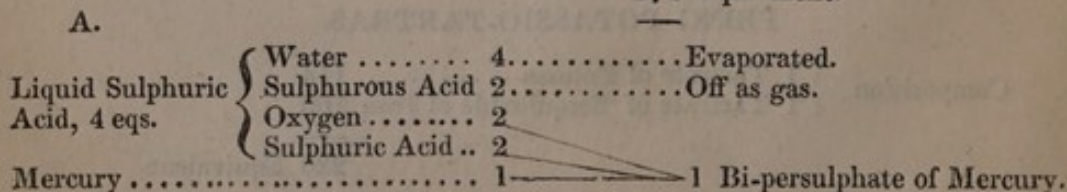
Composition.	{	1 Iodine	= 126
		1 Iron	= 28
		5 Water	= 45
			199 Equivalent.

Iodine .. 1
 Water .. 5
 Iron 1

Iodide of Iron.

HYDRARGYRI BICHLORIDUM.

Composition	{	2 Chlorine .. =	72
		1 Mercury .. =	202
			274 Equivalent.



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SECTION I

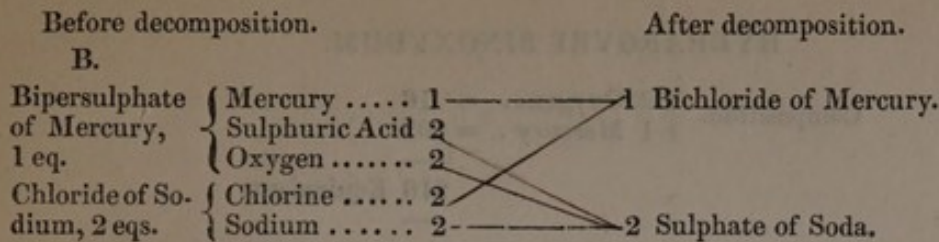
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SECTION II

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SECTION III

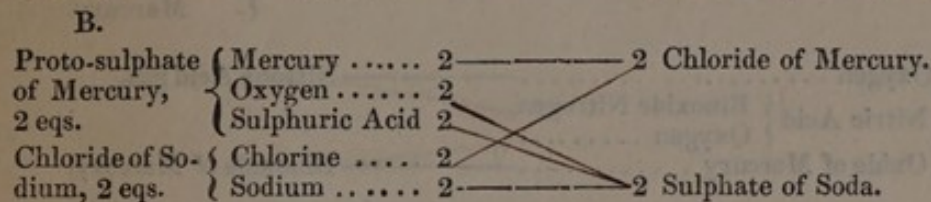
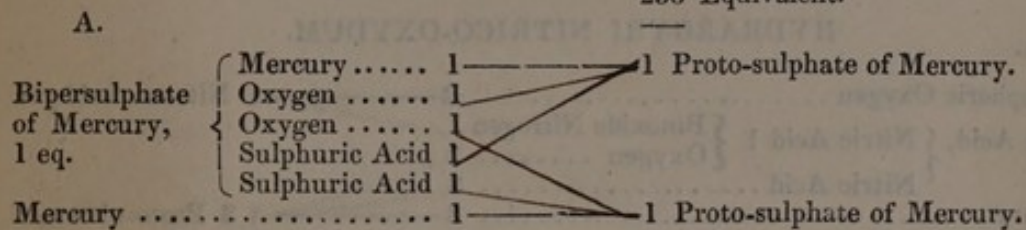
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HYDRARGYRI CHLORIDUM.

Composition. { 1 Chlorine = 36
 { 1 Mercury = 202

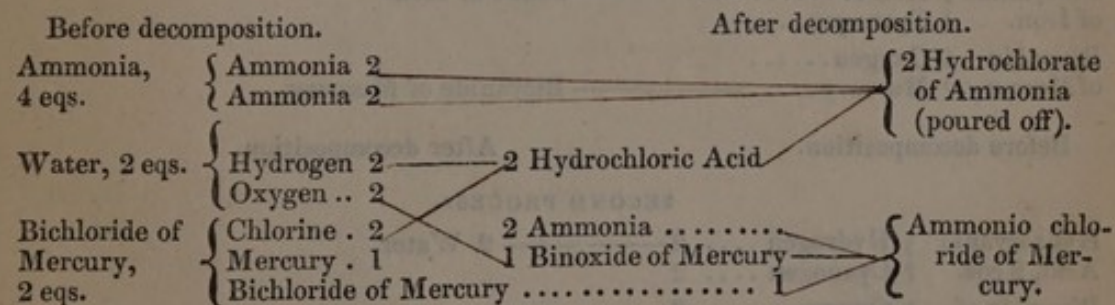
 238 Equivalent.



HYDRARGYRI AMMONIO-CHLORIDUM.

Composition. { 2 Ammonia = 34
 { 1 Bin oxide of Mercury = 218
 { 1 Bichloride of Mercury = 274

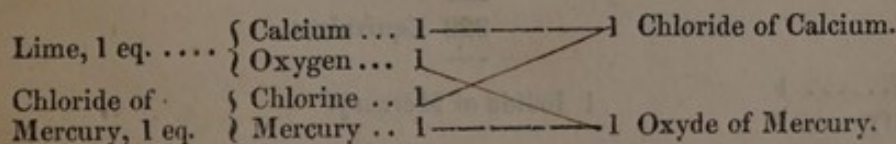
 526 Equivalent.



HYDRARGYRI OXYDUM.

Composition. { 1 Oxygen = 8
 { 1 Mercury .. 202

 210 Equivalent.



HYDRARGYRI BINOXYDUM.

Composition. { 2 Oxygen.. = 16
 { 1 Mercury . = 202

 218 Equivalent.

	Before decomposition.		After decomposition.
Potassa, 2 eqs.	{ Potassium 2	-----	2 Chloride of Potassium.
	{ Oxygen .. 2		
Bichloride of Mercury, 1 eq.	{ Chlorine.. 2		
	{ Mercury.. 1	-----	1 Binoxide of Mercury.

HYDRARGYRI NITRICO-OXYDUM.

A.

Atmospheric Oxygen	2	-----	1 Nitrous Acid gas
Nitric Acid, 4 eqs.	{ Nitric Acid 1	{ Binoxide Nitrogen 1	-----	1 Nitrous Acid gas
Mercury	{ Nitric Acid 3	{	-----	{ 3 Proto-nitrate of Mercury.

B.

Atmospheric Oxygen	-----	Nitrous Acid gas.
Proto-nitrate of Mercury.	{ Nitric Acid { Binoxide Nitrogen	-----	Nitrous Acid gas.
		-----	Binoxide of Mercury.

HYDRARGYRI BICYANIDUM.

Composition. { 2 Cyanogen = 52
 { 1 Mercury . = 202

 254 Equivalent.

Percyanide of Iron.	{ Iron	-----	Oxide of Iron.
	{ Cyanogen....		
Binoxide of Mercury.	{ Oxygen.....		
	{ Mercury.....	-----	Bicyanide of Mercury.

Before decomposition. After decomposition.

SECOND PROCESS.

Hydrocyanic Acid, 2 eqs.	{ Hydrogen 2	-----	2 Water.
	{ Cyanogen 2		
Binoxide of Mercury, 1 eq.	{ Oxygen 2		
	{ Mercury 1	-----	1 Bicyanide of Mercury.

HYDRARGYRI IODIDUM.

Composition. { 1 Iodine.. = 126
 { 1 Mercury = 202

 328 Equivalent.

Iodine..... 1		
Mercury.... 1		1 Iodide of Mercury.

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REMARKS ON THE

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HYDRARGYRI BINIODIDUM.

Composition. $\left\{ \begin{array}{l} 2 \text{ Iodine..} = 252 \\ 1 \text{ Mercury} = 202 \end{array} \right.$

454 Equivalent.

Iodine..... 2
 Mercury.... 1
 1 Biniiodide of Mercury.

MAGNESIA.

Composition. $\left\{ \begin{array}{l} 1 \text{ Oxygen ...} = 8 \\ 1 \text{ Magnesium} = 12 \end{array} \right.$

20 Equivalent.

Before decomposition.	After decomposition.
Carbonate of $\left\{ \begin{array}{l} \text{Carbonic Acid} \text{-----} \\ \text{Magnesia} \text{ } \left\{ \text{Magnesia....} \text{-----} \end{array} \right.$	Driven off by heat. Remains.

MAGNESIÆ CARBONAS.

Composition. $\left\{ \begin{array}{l} 1 \text{ Carbonic Acid} = 22 \\ 1 \text{ Magnesia.....} = 20 \end{array} \right.$

42 Equivalent.

Carbonate of Soda, 1 eq.	$\left\{ \begin{array}{l} \text{Soda} \\ \text{Carbonic Acid....} \end{array} \right.$	1	-----	1	Sulphate of Soda.
Sulphate of Magnesia, 1 eq.	$\left\{ \begin{array}{l} \text{Sulphuric Acid....} \\ \text{Magnesia} \end{array} \right.$	1	-----	1	Carbonate of Magnesia.

PLUMBI ACETAS.

Composition. $\left\{ \begin{array}{l} 1 \text{ Acetic Acid...} = 51 \\ 1 \text{ Oxide of Lead} = 112 \\ 3 \text{ Water} = 27 \end{array} \right.$

190 Equivalent.

Acetic Acid..... 1		
Water..... 3		
Oxide of Lead..... 1	Acetate of Lead.	

LIQUOR PLUMBI DIACETATIS.

Composition. $\left\{ \begin{array}{l} 1 \text{ Acetic Acid...} = 51 \\ 2 \text{ Oxide of Lead} = 224 \end{array} \right.$

275 Equivalent.

Before decomposition.	After decomposition.
Acetate of $\left\{ \begin{array}{l} \text{Acetic Acid} \\ \text{Lead, 1 eq. } \left\{ \text{Oxide of Lead....} \end{array} \right.$	1 Diacetate of Lead.
Oxide of Lead..... 1	

PLUMBI CHLORIDUM.

Composition. $\left\{ \begin{array}{l} 1 \text{ Chlorine} = 36 \\ 1 \text{ Lead} \dots = 104 \end{array} \right.$
 140 Equivalent.

Chloride of Sodium, 1 eq. $\left\{ \begin{array}{l} \text{Sodium} \dots\dots\dots 1 \\ \text{Chlorine} \dots\dots\dots 1 \end{array} \right.$ ————— 1 Acetate of Soda.
 Acetate of Lead, 1 eq. $\left\{ \begin{array}{l} \text{Acetic Acid} \dots\dots 1 \\ \text{Oxygen} \dots\dots\dots 1 \\ \text{Lead} \dots\dots\dots 1 \end{array} \right.$ ————— 1 Chloride of Lead.

PLUMBI IODIDUM.

Composition. $\left\{ \begin{array}{l} 1 \text{ Iodine} = 126 \\ 1 \text{ Lead} \dots = 104 \end{array} \right.$
 230 Equivalent.

Before decomposition. After decomposition.
 Iodide of Potassium, 1 eq. $\left\{ \begin{array}{l} \text{Potassium} \dots\dots 1 \\ \text{Iodine} \dots\dots\dots 1 \end{array} \right.$ ————— 1 Acetate of Potassa.
 Acetate of Lead, 1 eq. $\left\{ \begin{array}{l} \text{Acetic Acid} \dots\dots 1 \\ \text{Oxygen} \dots\dots\dots 1 \\ \text{Lead} \dots\dots\dots 1 \end{array} \right.$ ————— 1 Iodide of Lead.

PLUMBI OXYDUM HYDRATUM.

Composition. $\left\{ \begin{array}{l} \text{Protoxide of Lead.} \\ \text{Water, (proportion unknown).} \end{array} \right.$

Solution of Potassa. $\left\{ \begin{array}{l} \text{Potassa} \dots\dots\dots \\ \text{Water} \dots\dots\dots \end{array} \right.$ ————— Acetate of Potassa.
 Diacetate of Lead. $\left\{ \begin{array}{l} \text{Acetic Acid} \dots\dots \\ \text{Oxide of Lead} \dots\dots \end{array} \right.$ ————— Hydrated oxide of Lead.

POTASSÆ CARBONAS.

Composition. $\left\{ \begin{array}{l} 1 \text{ Carbonic Acid} 22 \\ 1 \text{ Potassa} \dots\dots 48 \\ 1\frac{1}{2} \text{ Water} \dots\dots 12 \end{array} \right.$
 82 Equivalent.

Impure Carbonate of Potassa. $\left\{ \begin{array}{l} \text{Sulphate of Potassa and Chloride of Potassium, left.} \\ \text{Carbonate of Potassa.} \end{array} \right.$
 Distilled Water ————— Pure Carbonate of Potassa.

POTASSÆ BICARBONAS.

Composition. $\left\{ \begin{array}{l} 2 \text{ Carbonic Acid} = 44 \\ 1 \text{ Potassa} \dots\dots = 48 \\ 1 \text{ Water} \dots\dots = 9 \end{array} \right.$
 101 Equivalent.

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Carbonate of Potassa 1 ————— 1 Bicarbonate of Potassa.
 Carbonate of } Carbonic Acid 1
 Lime, 1 eq. } Lime..... 1
 Sulphuric Acid 1 ————— 1 Sulphate of Lime.

LIQUOR POTASSÆ.

Solution of { Water ————— Liquor Potassæ.
 Carbonate of } Potassa
 Potassa. { Carbonic Acid
 Lime ————— Carbonate of Lime.

POTASSÆ HYDRAS.

Composition. { 1 Potassa = 48
 { 1 Water. = 9
 —————
 57 Equivalent.
 —

Solution of { Potassa.... 1 ————— Hydrate of Potassa.
 Potassa. { Water 1
 { Water ————— Expelled by heat.

POTASSÆ ACETAS.

Composition. { 1 Acetic Acid = 51
 { 1 Potassa = 48
 —————
 99 Equivalent.
 —

Carbonate of { Carbonic Acid..... 1..... Off as gas.
 Potassa, 1 eq. { Potassa 1
 Acetic Acid 1 ————— 1 Acetate of Potassa.

POTASSÆ SULPHAS.

Composition. { 1 Sulphuric Acid = 40
 { 1 Potassa = 48
 —————
 88 Equivalent.
 —

Bi-sulphate of { Sulphuric Acid 1 ————— Driven off by heat.
 Potassa. { Sulphate of Potassa 1 ————— Remains.

POTASSÆ TARTRAS.

Composition. { 1 Tartaric Acid = 66
 { 1 Potassa = 48
 —————
 114 Equivalent.
 —

Carbonate of { Carbonic Acid 1..... Off as gas.
 Potassa, 1 eq. { Potassa 1
 Bitartrate of { Tartaric Acid..... 1 1 Tartrate of Potassa.
 Potassa, 1 eq. { Tartrate of Potassa 1 ————— 1 Tartrate of Potassa.

POTASSII BROMIDUM.

Composition. { 1 Bromine . = 78
 { 1 Potassium = 40

 118 Equivalent.

Bromide of Iron, 1 eq. { Bromine..... 1
 { Iron 1
 Carbonate of Potassa, 1 eq. { Potassium.... 1
 { Oxygen 1
 { Carbonic Acid 1

 1 Bromide of Potassium.

 1 Carbonate of Iron.

POTASSII IODIDUM.

Composition. { 1 Iodine ... = 126
 { 1 Potassium = 40

 166 Equivalent.

Iodide of Iron, 1 eq. { Iodine 1
 { Iron 1
 Carbonate of Potassa, 1 eq. { Potassium.... 1
 { Oxygen 1
 { Carbonic Acid 1

 1 Iodide of Potassium.

 1 Carbonate of Iron.

POTASSII SULPHURETUM.

Composition. { 3 Sulphuret of Potassium = 168
 { 1 Sulphate of Potassa. ... = 88

 256 Equivalent.

Sulphur, 4 eqs. { Sulphur..... 1
 { Sulphur..... 3
 Carbonate of Potassa, 4 eqs. { Potassa..... 1
 { Oxygen..... 3
 { Potassium... 3
 { Carbonic Acid 4..... Off as gas.

 1 Sulphate of Potassa.

 3 Sulphuret of Potassium.

SODÆ CARBONAS.

Composition of the crystals. { 1 Carbonic Acid = 22
 { 1 Soda..... = 32
 { 10 Water..... = 90

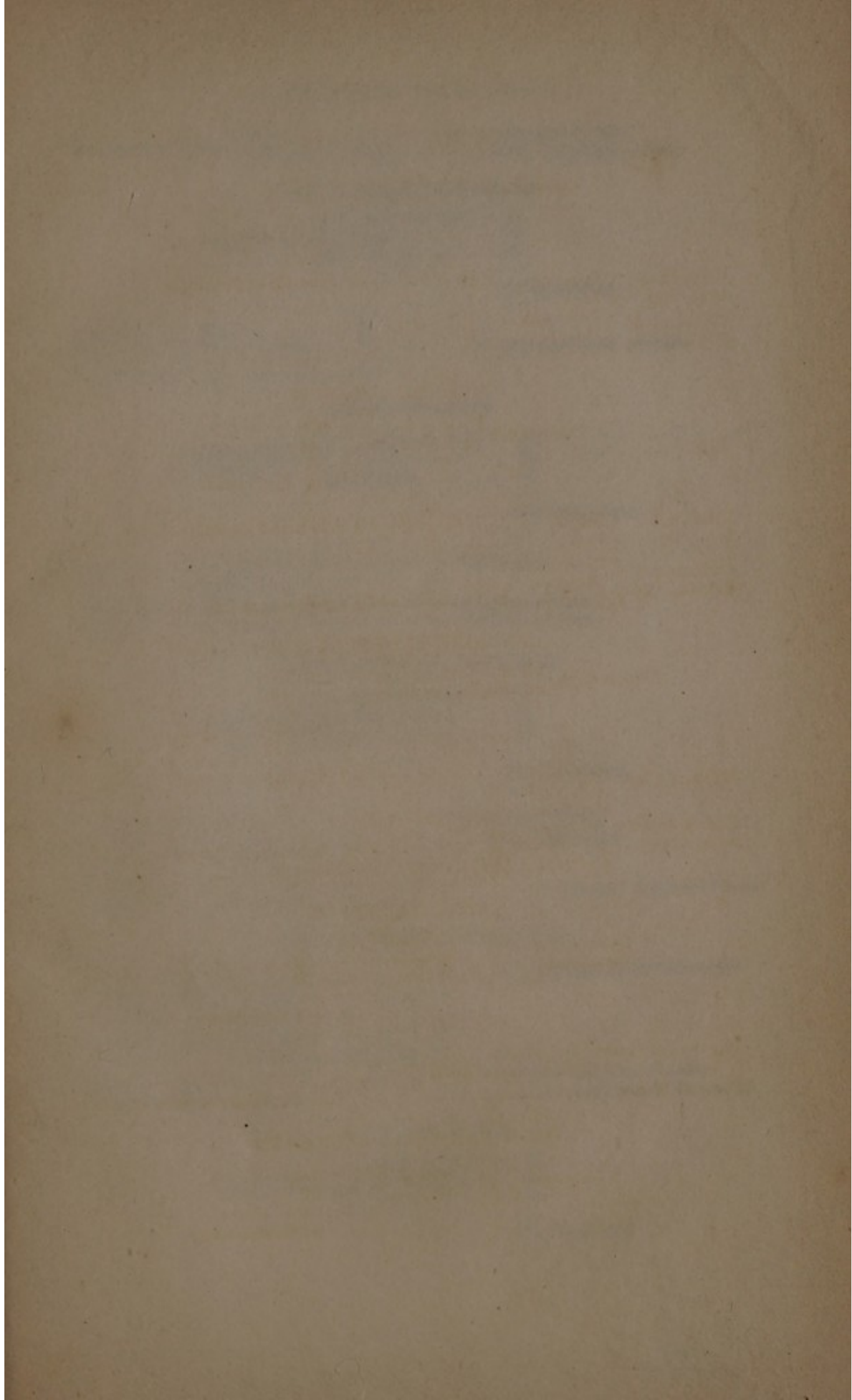
 144 Equivalent.

Impure Carbonate of Soda. { Impurities.
 { Carbonate of Soda.
 Distilled Water..... Pure Carbonate of Soda in solution.

SODÆ CARBONAS EXSICCATA.

Composition. { 1 Carbonic Acid = 22
 { 1 Soda..... = 32

 54 Equivalent.



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Carbonate of Soda. { Water ————— Expelled by heat.
 { Carbonate of Soda ————— Dry Carbonate of Soda.

SODÆ SESQUICARBONAS.

Composition. { 1½ Carbonic Acid = 33
 { 1 Soda = 32
 { 2 Water = 18
 —————
 83 Equivalent.

Carbonate of Soda..... 1
 Soda, 1 eq. { Carbonic Acid.... 1
 Carbonic Acid..... ½
 1 Sesquicarbonate of Soda.

SODÆ SULPHAS.

Composition of the Crystals. { 1 Sulphuric Acid = 40
 { 1 Soda = 32
 { 10 Water..... = 90
 —————
 162 Equivalent.

Carbonate of Soda. { Carbonic Acid.. ————— Off as gas.
 { Soda.....
 Super-sulphate of Soda. { Sulphuric Acid.. ————— Sulphate of Soda.
 { Sulphate of Soda ————— Sulphate of Soda.

SODÆ POTASSIO-TARTRAS.

Composition. { 1 Tartrate of Potassa = 114
 { 1 Tartrate of Soda.. = 98
 { 8 Water = 72
 —————
 284 Equivalent.

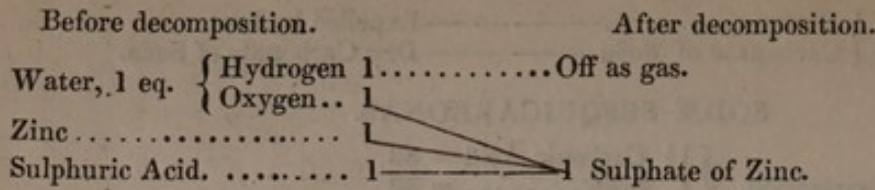
Before decomposition. After decomposition.
 Carbonate of Soda, { Carbonic Acid. 1 ————— Off as gas.
 1 eq. { Soda 1
 Bitartrate of Potassa, 1 eq. { Tartaric Acid. 1
 { Tartrate of Potassa. 1
 1 Potassio-Tartrate of Soda.

LIQUOR SODÆ CHLORINATÆ.

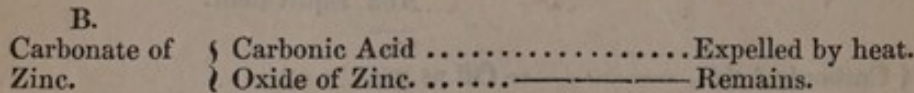
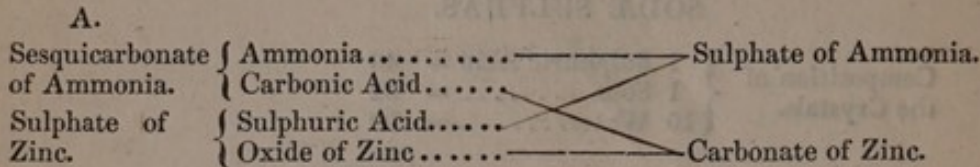
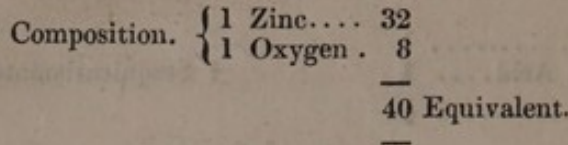
Solution of Carbonate of Soda..... ————— Liquor Sodæ Chlorinatæ.
 Chloride of Sodium, 1 eq. { Chlorine..... 1
 { Sodium 1
 Binoxide of Manganese, 1 eq. { Oxygen..... 1
 { Protoxide Manganese. 1
 Sulphuric Acid 1 ————— 1 Sulphate of Soda.
 Sulphuric Acid 1 ————— 1 Sulphate of Manganese.

ZINCI SULPHAS.

Composition. { 1 Sulphuric Acid = 40
 { 1 Oxide of Zinc.. = 40
 { 7 Water..... = 63
 —————
 143 Equivalent.

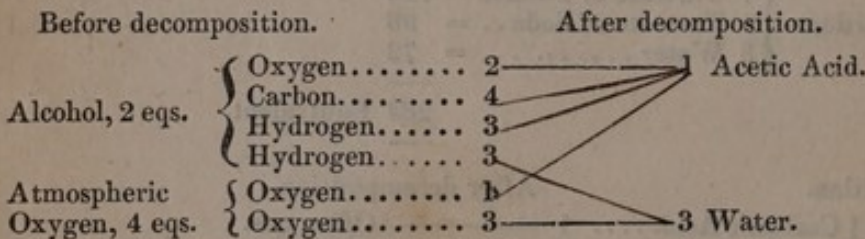


ZINCI OXYDUM.



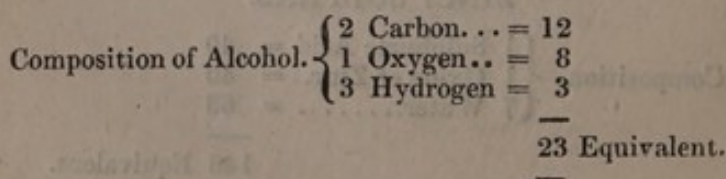
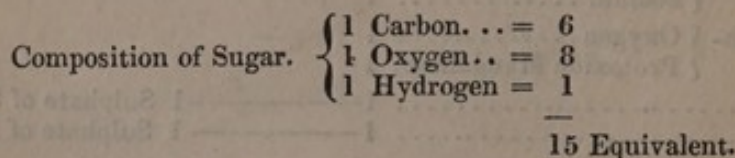
ACETOUS FERMENTATION.

When alcohol, mixed with yeast, is exposed to the air in a warm temperature, the following changes take place.



VINOUS FERMENTATION.

When sugar, dissolved in water, and mixed with a little yeast, is placed in a temperature of about 70°, the following decomposition occurs.



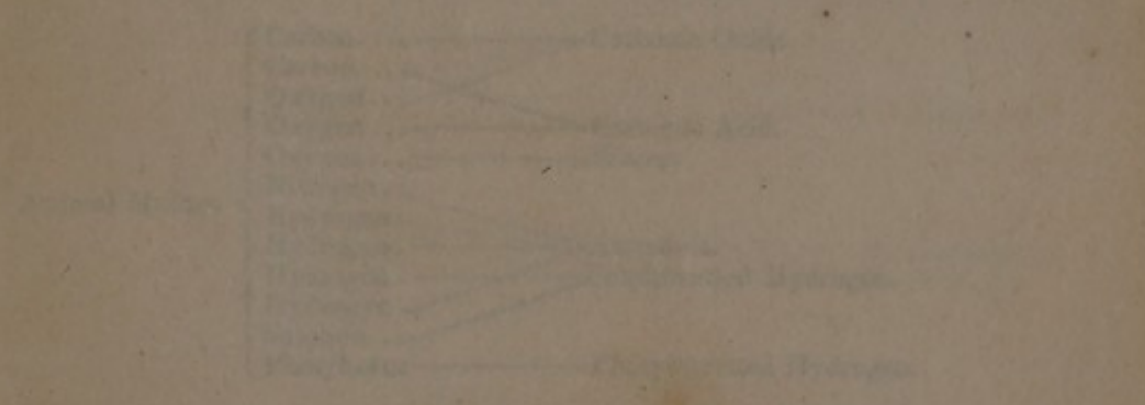
Name of substance	Analysis
Starch	Carbon 44.44% Hydrogen 6.22% Oxygen 49.34%
Cellulose	Carbon 44.44% Hydrogen 6.22% Oxygen 49.34%
Wood	Carbon 50.00% Hydrogen 6.25% Oxygen 43.75%
Grass	Carbon 45.00% Hydrogen 6.25% Oxygen 48.75%
Hay	Carbon 45.00% Hydrogen 6.25% Oxygen 48.75%

COMPARATIVE FERMENTATION

The composition of vegetable matter is chiefly carbon, oxygen, and hydrogen. The results of their decomposition are as follows:

Carbon	Hydrogen	Oxygen
Water	Alcohol	Carbonic Acid

Animal matter consists principally of carbon, oxygen, hydrogen, nitrogen, and phosphorus. The results of decomposition are shown in the following diagram:

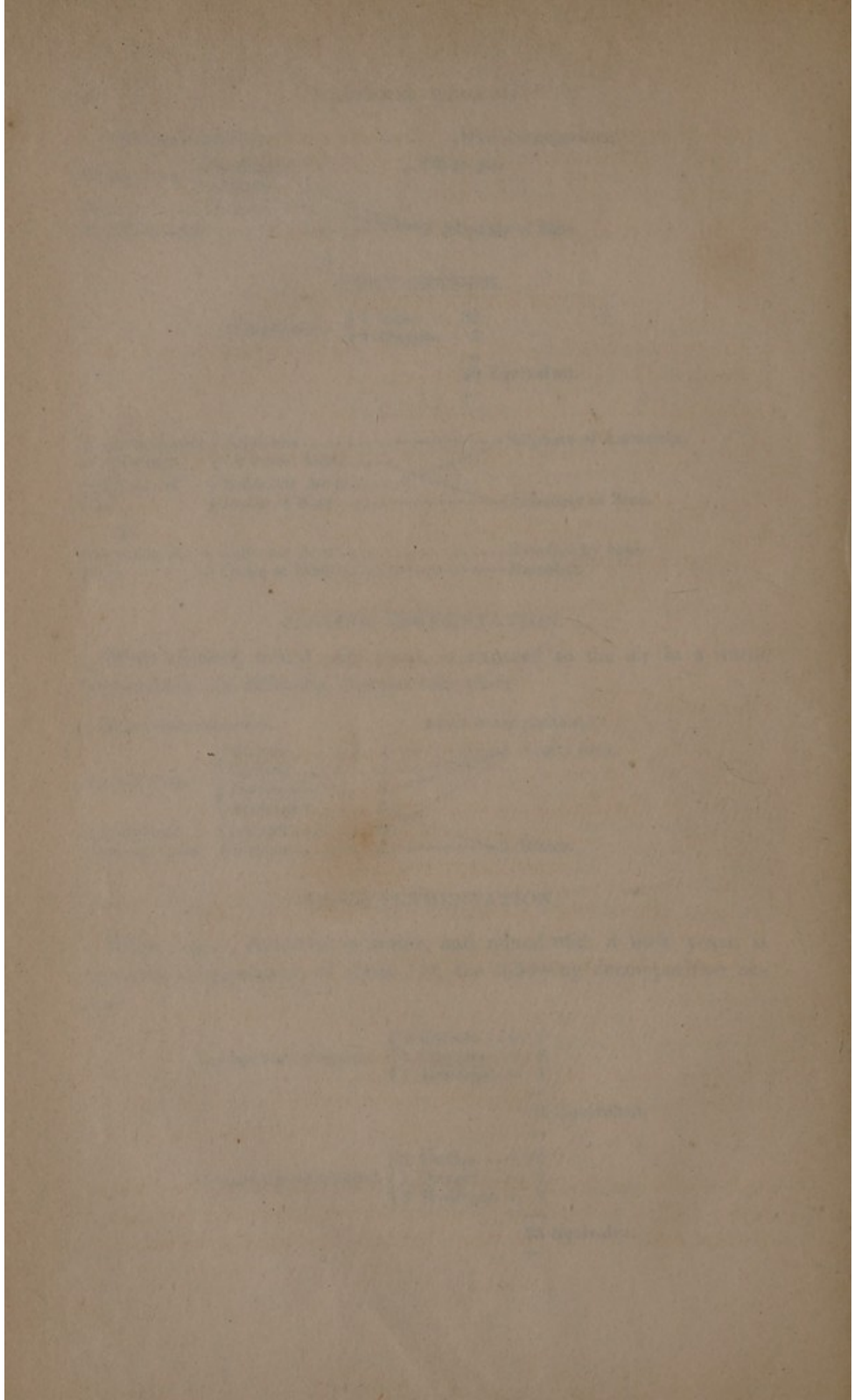


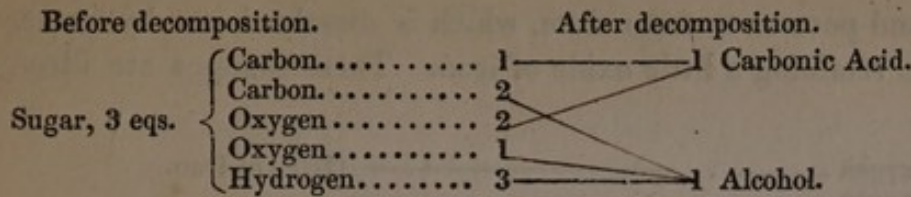
PREPARATION OF ALCOHOL

(General Analysis of Potatoes)

Composition of Alcohol	$\left. \begin{array}{l} \text{Carbon} \dots \dots \dots 52 \\ \text{Hydrogen} \dots \dots \dots 12 \end{array} \right\} \text{C}_2\text{H}_6$	
Composition of Acid	$\left. \begin{array}{l} 2 \text{ molecules of Alcohol} = 104 \\ 1 \text{ molecule of Potassium} = 39 \\ \text{Total Weight} \dots \dots \dots 143 \end{array} \right\}$	

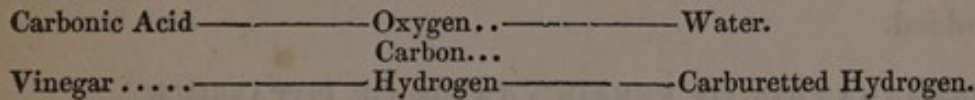
Alcohol is a colorless liquid of high density, and is formed by the fermentation of the starch and sugar in the potato. It is a powerful solvent and is used in many of the arts and sciences. It is also used in the preparation of various medicines and is a valuable fuel.



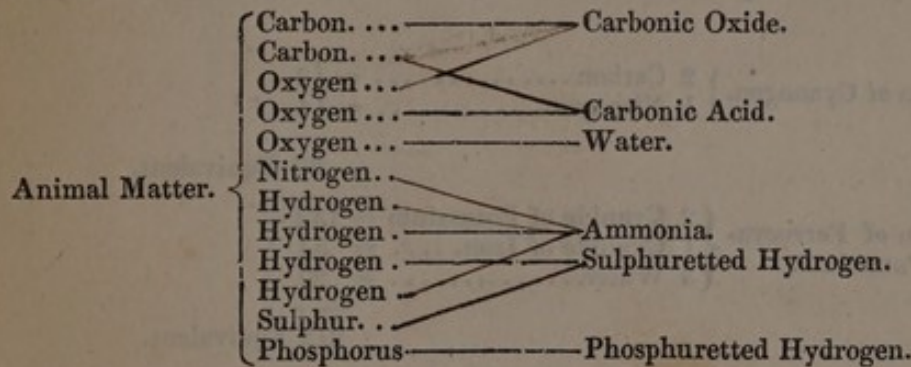


PUTREFACTIVE FERMENTATION.

The composition of vegetable bodies is chiefly carbon, oxygen, and hydrogen. The results of their decomposition are as follow:—



Animal matter consists principally of carbon, oxygen, hydrogen, sulphur, and phosphorus: the results of decomposition are shown in the following diagram.



PREPARATION OF ALUM.

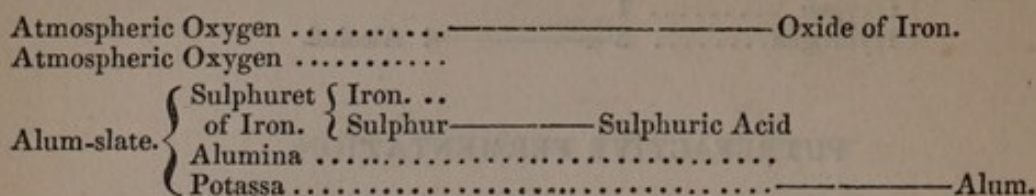
(SULPHAS ALUMINÆ ET POTASSÆ.)

Composition of Alumina.	{	1 Aluminum..... = 10	}
		1 Oxygen..... = 8	
		—————	
			18 Equivalent.
			—————

Composition of Alum.	{	3 Sulphate of Alumina = 174	}
		1 Sulphate of Potassa . = 88	
		25 Water..... = 225	
		—————	
			487 Equivalent.
			—————

Alum-slate contains sulphuret of iron, alumina, and potassa; when roasted, the iron and sulphur unite with the oxygen of the atmosphere, and form oxide of iron and sulphuric acid; the latter combines with

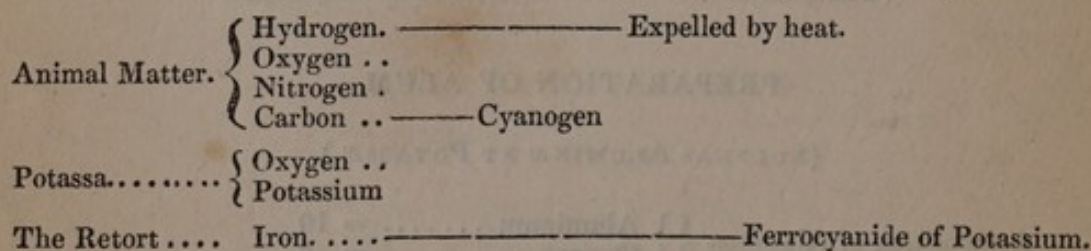
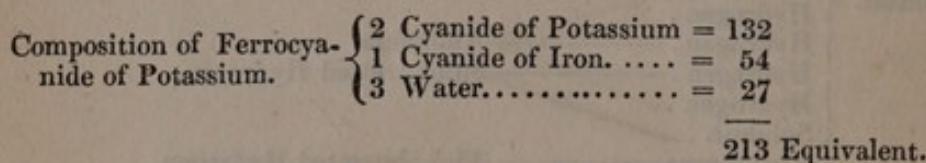
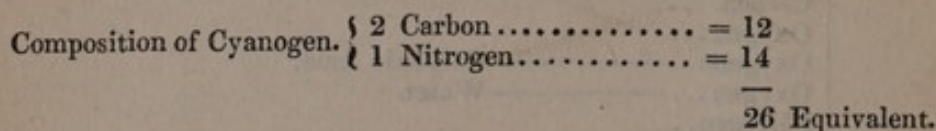
the alumina and potassa to form alum, which is dissolved out by water, still, however, retaining a little oxide of iron. These changes are illustrated below.



Frequently the alum-slate does not contain sufficient potassa; in this case a salt of potassa, either chloride of potassium, or sulphate of potassa, is added.

PREPARATION OF FERROCYANIDE OF POTASSIUM.

When animal matter is heated with potassa in an iron retort, the carbon and nitrogen of the former unite to form cyanogen, which, combining with the potassium of the potassa and the iron of the retort, constitutes ferrocyanide of potassium. It is purified by solution and crystallization.



PREPARATION OF IODINE.

Equivalent, 126.

Kelp, the impure carbonate of soda, obtained by incinerating sea-weeds, contains a quantity of iodine, in combination with sodium or potassium. After the carbonate of soda has been removed by solution and crystallization, a dark coloured fluid remains, termed "Mother liquor," containing iodide of sodium or potassium. To this liquor sulphuric acid and peroxide of manganese are added, sulphates of soda and manganese

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formed, and by the aid of heat, the iodine is sublimed. The process is illustrated below.

Mother Liquor } contains	{ Iodine.....	1	-----	Sublimes.
	{ Sodium	1	-----	
Peroxide of Manganese. }	{ Oxygen	1	-----	
	{ Protoxide of Manganese	1	-----	
Sulphuric Acid.....		1	-----	Sulphate of Soda.
Sulphuric Acid.....		1	-----	Sulphate of Manganese.

PREPARATION OF HYDRIODIC ACID.

Composition.	{ 1 Hydrogen =	1
	{ 1 Iodine.... =	126

		127 Equivalent.

When periodide of phosphorus is put into water, and a gentle heat applied, the following decomposition ensues.

Periodide of Phosphorus. }	{ Iodine.....	5	-----	5 Hydriodic Acid.
	{ Phosphorus.....	2	-----	
Water }	{ Hydrogen	5	-----	
	{ Oxygen	5	-----	1 Phosphoric Acid.

PREPARATION OF BROMINE.

Equivalent, 78.

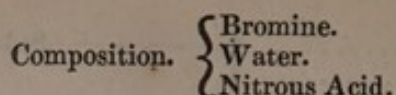
Bromine exists in sea-water combined with sodium or magnesium; when chloride of sodium has been removed by crystallization, a brown coloured liquid of an acrid odour remains, named "bittern," which contains bromide of magnesium. Sulphuric acid and peroxide of manganese are added to the bittern, and the results are as follow :

Bittern contains	{ Bromine.....	1	-----	Sublimes.
	{ Magnesium.....	1	-----	
Peroxide of Manganese. }	{ Oxygen	1	-----	
	{ Protoxide of Manganese..	1	-----	
Sulphuric Acid		1	-----	1 Sulphate of Magnesia.
Sulphuric Acid		1	-----	1 Sulphate of Manganese.

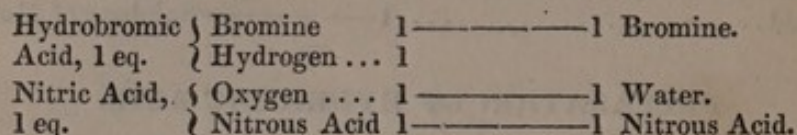
Hydrobromic acid may be obtained by applying a gentle heat to the perbromide of phosphorus dissolved in water. The following diagram shows the decomposition :

Perbromide of Phosphorus, 1 eq. }	{ Bromine....	5	-----	5 Hydrobromic Acid.
	{ Phosphorus	2	-----	
Water, 5 eqs. }	{ Hydrogen..	5	-----	
	{ Oxygen....	5	-----	1 Phosphoric Acid.

PREPARATION OF NITRO-HYDROBROMIC ACID.

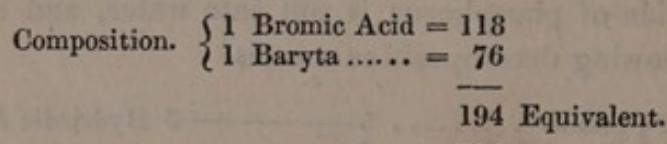


When hydrobromic acid and nitric acid are mixed together the following changes take place :

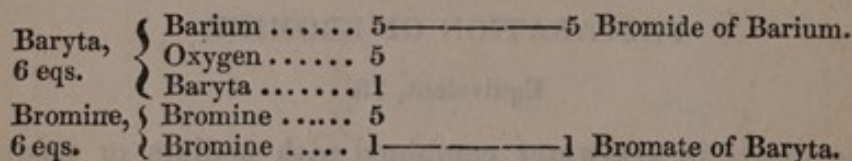


The nitro-hydrobromic acid which is formed possesses the power of dissolving gold on account of the free bromine.

PREPARATION OF BROMATE OF BARYTA.

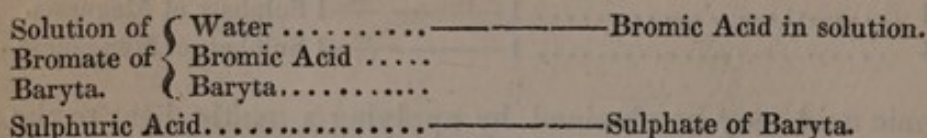
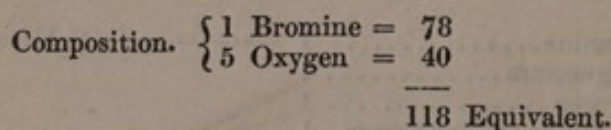


When bromine is added to a solution of any of the alkalies or alkaline earths the following decomposition takes place :



The bromate can be easily separated from the bromide by evaporation and crystallization.

PREPARATION OF BROMIC ACID.



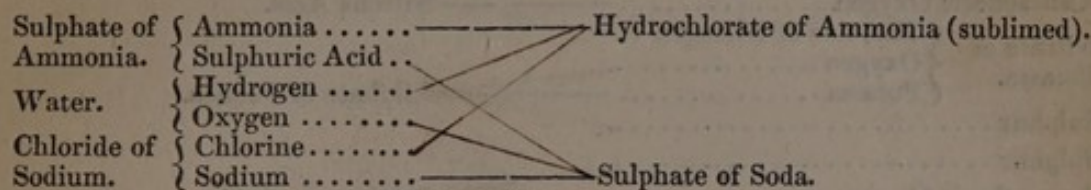
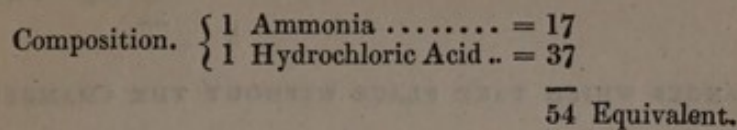
PREPARATION OF HYDROCHLORATE OF AMMONIA.

When impure coal gas is passed through water, a large quantity of ammonia contained in the gas is absorbed ; to this solution sulphuric acid is added, and sulphate of ammonia formed, thus fixing the volatile alkali. Chloride of sodium is then mixed with the crystallized sul-

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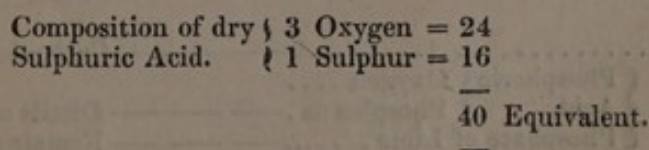
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phate, and heat being applied, hydrochlorate of ammonia sublimes and sulphate of soda remains. The following diagram illustrates the process :



PREPARATION OF SULPHURIC ACID.

Sulphur, mixed with an eighth part of its weight of nitrate of potassa, is burned in such a position that the gaseous products of combustion are carried by a current of air into a chamber lined with lead, and having its floor covered with a stratum of water several inches deep. The nitrate of potassa is decomposed, the nitric acid yields part of its oxygen to a little sulphur, forming sulphuric acid, which with the potassa forms a sulphate; the greater portion of the sulphur, however, unites with atmospheric oxygen and is converted into sulphurous acid. The nitric acid, having lost part of its oxygen, is changed into binoxide of nitrogen, which immediately combining with oxygen of the air forms nitrous acid, and, together with the sulphurous acid, passes into the chamber. The watery vapour present in the chamber, coming into contact with the nitrous and sulphurous acids, causes an immediate change in their composition, and a crystalline compound results, consisting of sulphuric acid, hyponitrous acid, and water. This crystalline substance, in consequence of its specific gravity, falls into the water, and decomposition again ensues. The sulphuric acid is retained in solution, while the hyponitrous acid is converted into nitrous acid and binoxide of nitrogen, which escape with effervescence. The binoxide meeting with more atmospheric oxygen, is instantly changed into nitrous acid, and enters into the composition of a further portion of crystalline matter, which is again precipitated and decomposed. These changes are continually repeated until the water is made very acid, when it is drawn off and concentrated by boiling in platinum vessels. The following diagrams are intended to illustrate the several changes which occur :



Composition of Aqueous	{	1 Sulphuric Acid = 40
Sulphuric Acid.	{	1 Water = 9
		49 Equivalent.

CHANGES WHICH TAKE PLACE WITHOUT THE CHAMBER.

Atmospheric Oxygen			Nitrous Acid.
Nitrate of Potassa. {	{	Binoxide of Nitrogen ..	Sulphate of Potassa.
		Oxygen	
		Potassa	
Sulphur			Sulphurous Acid.
Sulphur			
Atmospheric Oxygen			

CHANGES WHICH TAKE PLACE WITHIN THE CHAMBER.

B.

Nitrous Acid, 2 eqs.	{	Hyponitrous Acid 2			
		Oxygen	2		} Crystalline compound.
Sulphurous Acid			2	2 Sulphuric Acid.	
Water				Water.	

C.

Crystalline compound. {	{	Hyponitrous Acid, 2 eqs.		Nitrogen 1	} Binoxide of Nitrogen, which again forms Nitrous Acid.	
				Nitrogen 1		
				Oxygen . 2		Nitrous acid.
				Oxygen . 4		
		Sulphuric Acid	2		Retained by the water on the floor.	
		Water				

PREPARATION OF PHOSPHORUS.

Equivalent, 16.

Sulphuric acid is added to the well burnt ashes of bone, and sulphate and superphosphate of lime are formed. The latter being the more soluble salt, is dissolved out by water, and the solution having been evaporated to the consistence of syrup, is mixed with charcoal. By the assistance of heat the oxygen is removed from the excess of phosphoric acid in the form of carbonic oxide and carbonic acid, phosphorus distils, and phosphate of lime remains in the retort.

A.

Bone ashes. {		Phosphoric Acid		Superphosphate of Lime.
		Lime		
Sulphuric Acid				Sulphate of Lime.

B.

Carbon				Carbonic Oxide and Acid.
Superphosphate of Lime. {	{	Phosphoric Acid. {	Oxygen	Distils over.
			Phosphorus .	
		Phosphate of Lime		

The first part of the document is a list of names and titles, including the names of the members of the committee and the names of the individuals who were interviewed. The names are listed in a columnar format, with the names of the committee members on the left and the names of the individuals interviewed on the right.

The second part of the document is a list of questions that were asked of the individuals interviewed. The questions are listed in a columnar format, with the questions on the left and the answers on the right.

The third part of the document is a list of answers to the questions that were asked. The answers are listed in a columnar format, with the answers on the left and the questions on the right.

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The sixth part of the document is a list of answers to the questions that were asked. The answers are listed in a columnar format, with the answers on the left and the questions on the right.

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The eighth part of the document is a list of questions that were asked of the individuals interviewed. The questions are listed in a columnar format, with the questions on the left and the answers on the right.

The ninth part of the document is a list of answers to the questions that were asked. The answers are listed in a columnar format, with the answers on the left and the questions on the right.

The tenth part of the document is a list of names and titles, including the names of the members of the committee and the names of the individuals who were interviewed. The names are listed in a columnar format, with the names of the committee members on the left and the names of the individuals interviewed on the right.

The eleventh part of the document is a list of questions that were asked of the individuals interviewed. The questions are listed in a columnar format, with the questions on the left and the answers on the right.

The twelfth part of the document is a list of answers to the questions that were asked. The answers are listed in a columnar format, with the answers on the left and the questions on the right.

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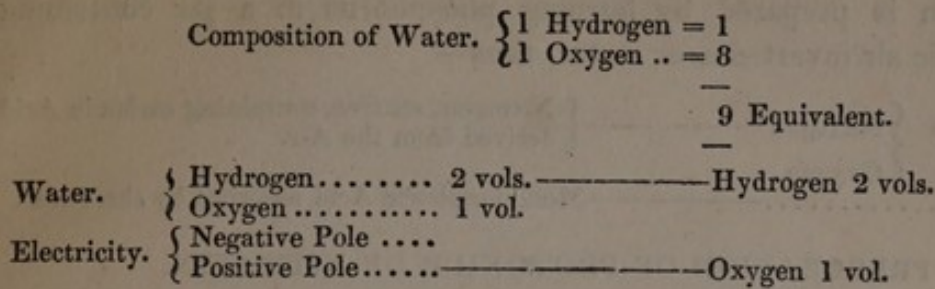
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DIAGRAM SHOWING THE DECOMPOSITION OF WATER BY ELECTRICITY.

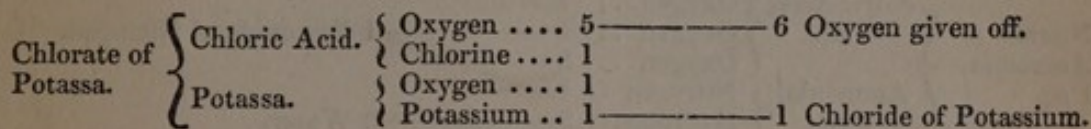


PREPARATION OF OXYGEN.

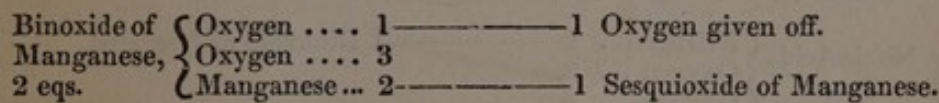
Equivalent 8. Specific gravity 1.1026.

Oxygen may be procured from chlorate of potassa, binoxide of manganese, and binoxide of mercury, by the application of heat.

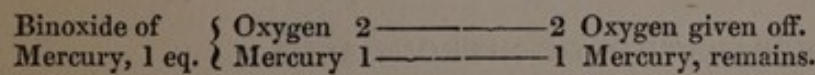
DECOMPOSITION OF CHLORATE OF POTASSA.



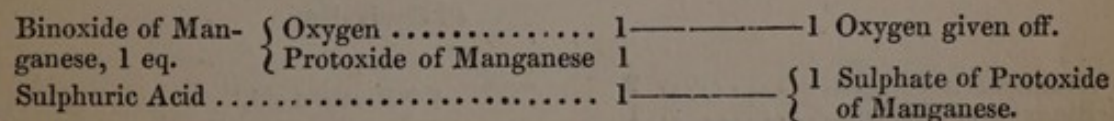
DECOMPOSITION OF BINOXIDE OF MANGANESE.



DECOMPOSITION OF BINOXIDE OF MERCURY.



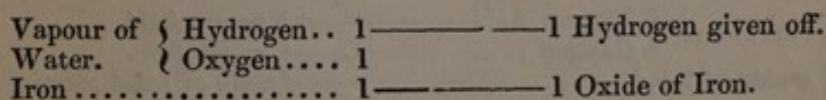
DECOMPOSITION OF BINOXIDE OF MANGANESE BY SULPHURIC ACID.



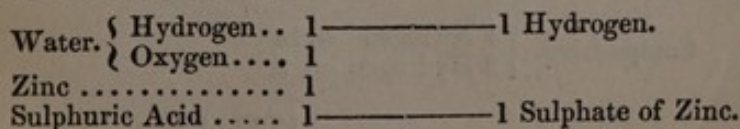
PREPARATION OF HYDROGEN.

Equivalent 1. Specific gravity .069.

DECOMPOSITION OF THE VAPOUR OF WATER BY RED HOT IRON.



DECOMPOSITION OF WATER BY ZINC AND SULPHURIC ACID.

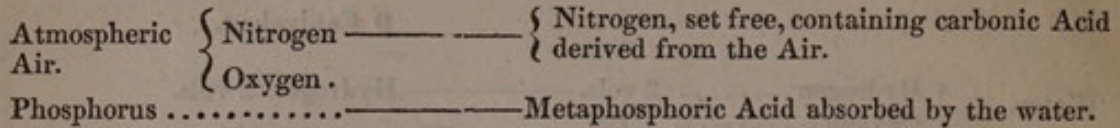


The same changes occur when iron is employed instead of zinc.

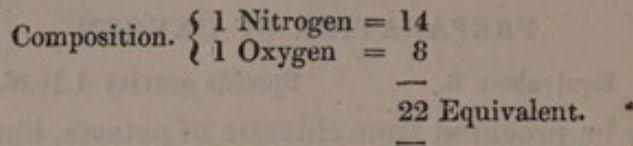
PREPARATION OF NITROGEN.

Equivalent 14. Specific gravity 0.9727.

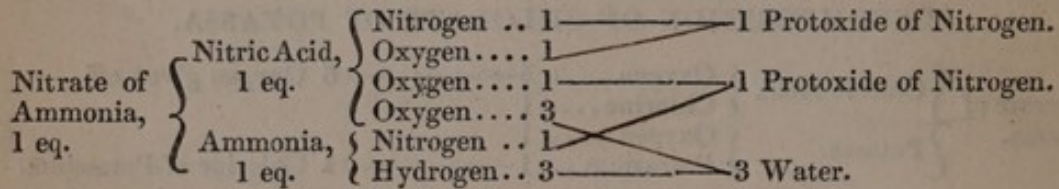
Nitrogen is prepared by burning phosphorus in a jar containing atmospheric air inverted over water, thus—



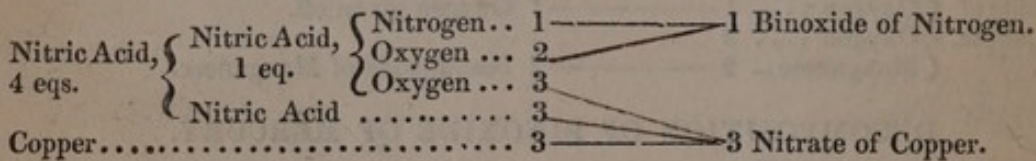
PREPARATION OF PROTOXIDE OF NITROGEN.



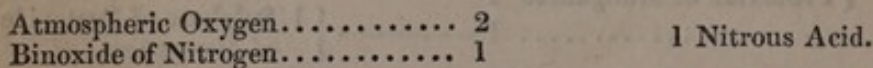
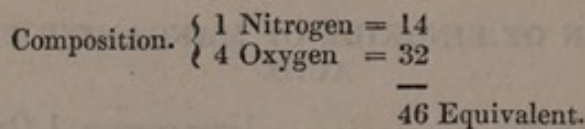
DECOMPOSITION OF NITRATE OF AMMONIA BY HEAT.



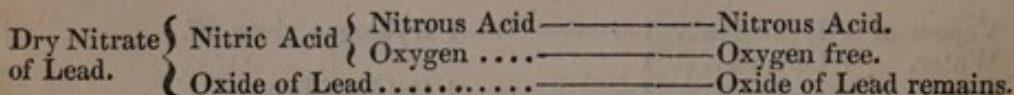
PREPARATION OF BINOXIDE OF NITROGEN.



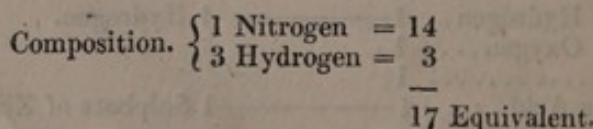
PREPARATION OF NITROUS ACID.



This acid may also be obtained in the liquid form by applying heat to the dry nitrate of lead, and condensing the vapours by a freezing mixture.



PREPARATION OF AMMONIACAL GAS.



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DECLARATION OF INDEPENDENCE

When in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

DECLARATION OF INDEPENDENCE

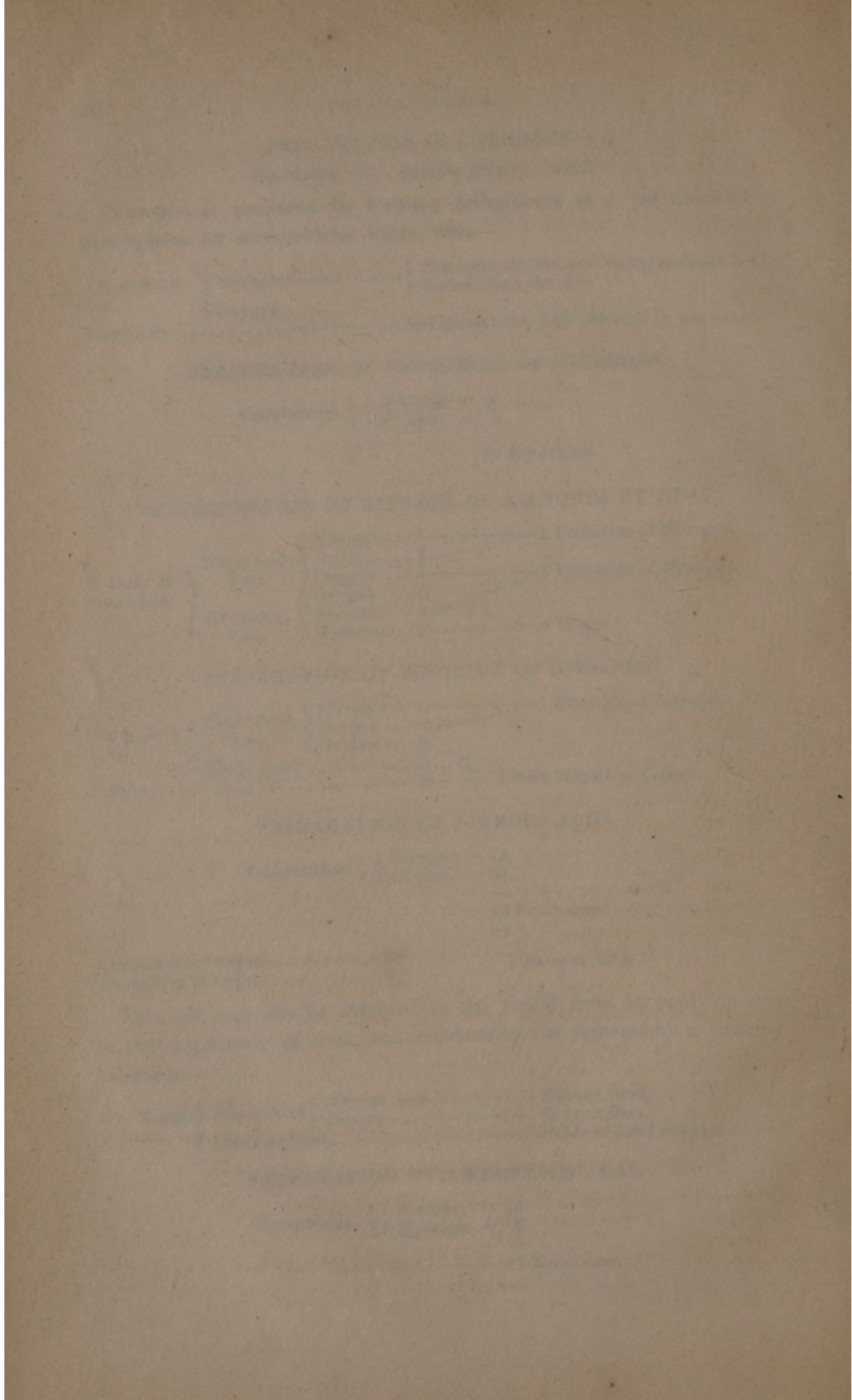
Resolved, therefore, that these United Colonies are, and of right ought to be, free and independent States, that they are absolved from all allegiance to the British Crown, and that all political connections between them and that King, ought to be totally dissolved; and that as a consequence of the foregoing resolutions, every power, which of right belongs to the people of this State, is now, and of right ought to be, exercised by them, in their legislative, executive, and judicial branches.

And for the support of this Declaration, we the Representatives of the good People of North Carolina, do hereby publish and declare, that we do, by the authority of the said People, solemnly and unanimously assent to, ratify, and confirm the said Declaration, and do hereby declare, that the said Declaration is the act and deed of the said People.

In Testimony whereof, we have hereunto set our hands and seals, this 20th day of November, 1776.

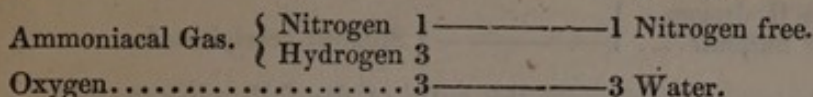
DECLARATION OF INDEPENDENCE

Done in the City of New York, the 4th day of July, 1776.

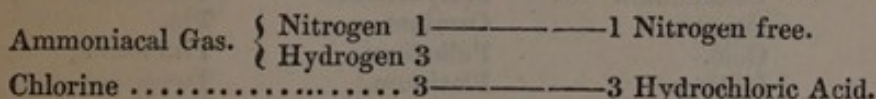


When a gentle heat is applied to liquor ammoniæ, ammoniacal gas is disengaged, to be collected over mercury.

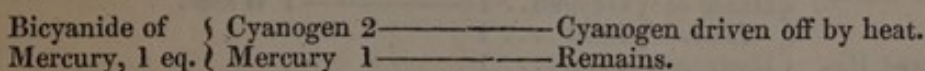
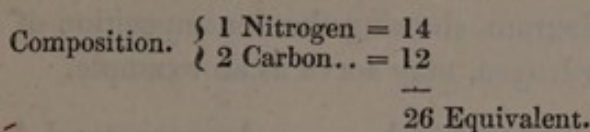
When a mixture of oxygen and ammoniacal gas is fired, the decomposition ensues expressed in the following diagram.



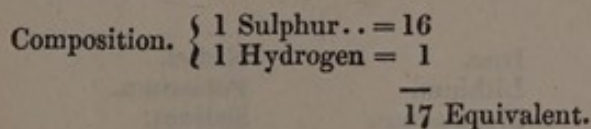
Ammoniacal gas can also be decomposed by passing chlorine through it.



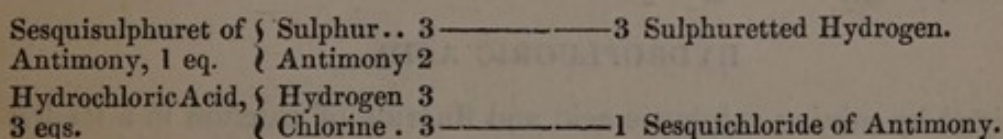
PREPARATION OF CYANOGEN.



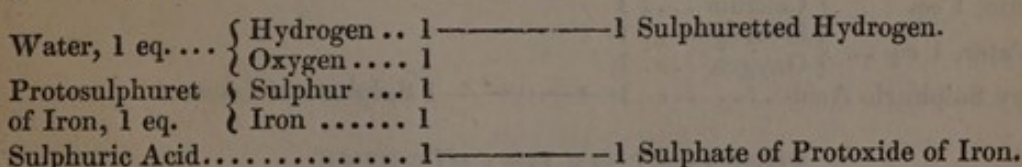
PREPARATION OF SULPHURETTED HYDROGEN, OR
HYDROSULPHURIC ACID.



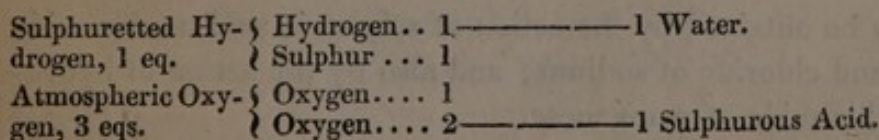
It is procured by heating sesquisulphuret of antimony in a glass vessel with hydrochloric acid. The following diagram illustrates the decomposition.



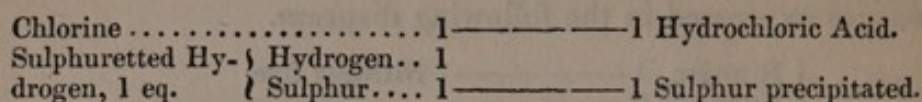
It may also be prepared by the action of diluted sulphuric acid on protosulphuret of iron. The reaction is shewn below.



COMBUSTION OF SULPHURETTED HYDROGEN.



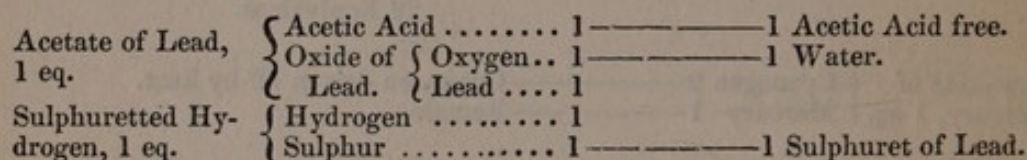
Sulphuretted hydrogen is decomposed by chlorine, iodine, and bromine, with the formation of hydrochloric, hydriodic, and hydrobromic acids, sulphur being precipitated.



Sulphuretted hydrogen decomposes the salts of the following metals:—

Antimony.	Columbium.	Molybdenum.	Tellurium.
Arsenicum.	Copper.	Osmium.	Tin.
Bismuth.	Gold.	Palladium.	Titanium.
Cadmium.	Iridium.	Platinum.	Tungsten.
Cerium.	Lead.	Rhodium.	Vanadium.
Chromium.	Mercury.	Silver.	Zinc.

The following diagram, showing the decomposition of acetate of lead by sulphuretted hydrogen, may serve as an example.



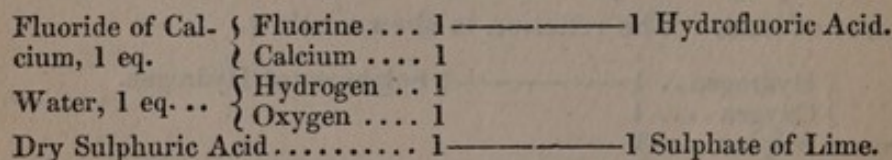
Salts of the metals named below are not decomposed by sulphuretted hydrogen.

Aluminum.	Iron.	Nickel.	Thorium.
Barium.	Lithium.	Potassium.	Uranium.
Calcium.	Magnesium.	Sodium.	Yttrium.
Cobalt.	Manganese.	Strontium.	Zirconium.
Glucinum.			

But the salts of cobalt, iron, manganese, nickel, and uranium, are precipitated by sulphuret of potassium.

HYDROFLUORIC ACID

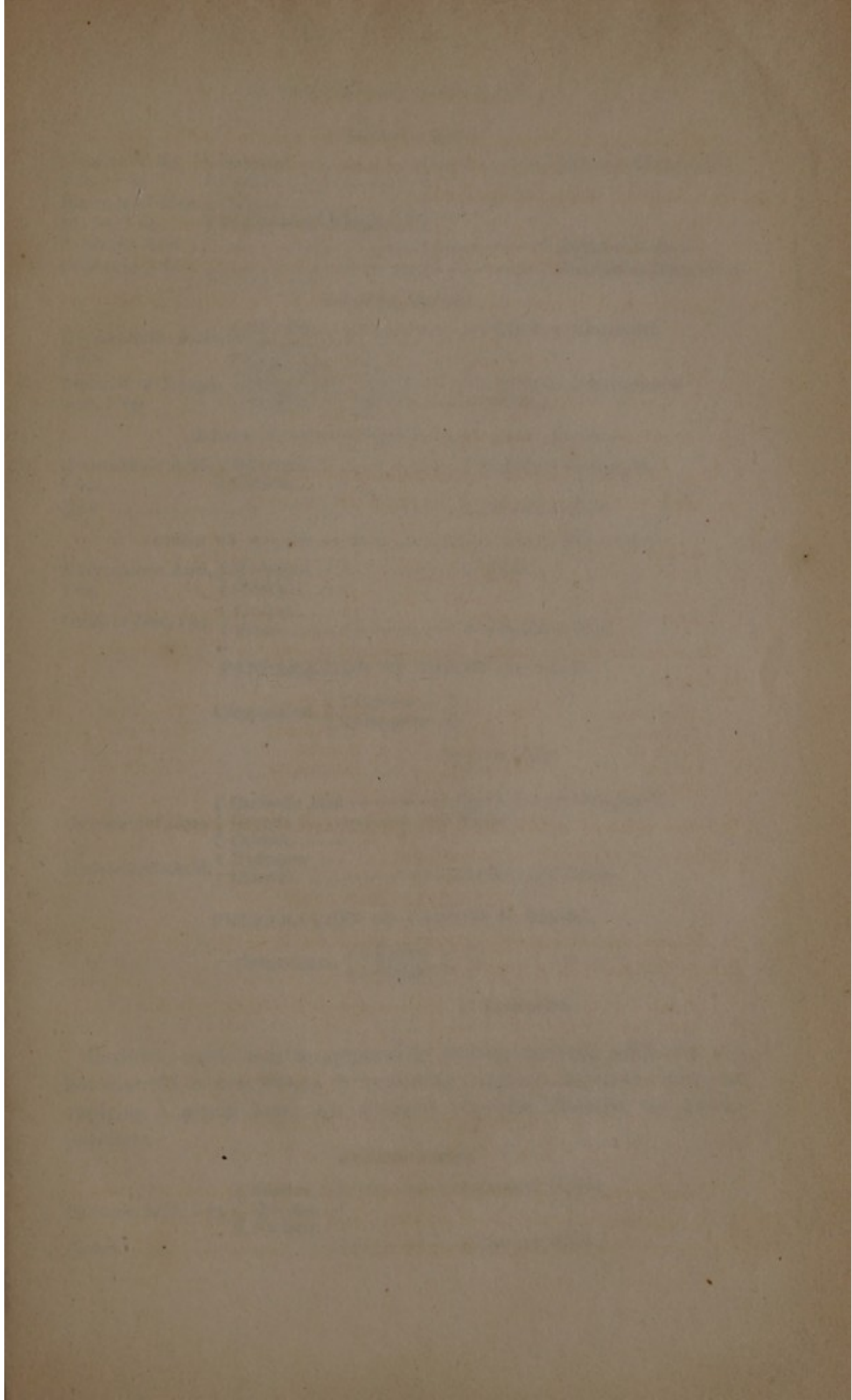
Is obtained by mixing sulphuric acid and fluoride of calcium in a leaden retort, and applying a gentle heat.



PREPARATION OF CHLORINE.

Equivalent 36.

Chlorine may be obtained by the action of sulphuric acid on binoxide of manganese and chloride of sodium; and also by the action of hydrochloric acid on binoxide of manganese.



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Second block of faint, illegible text, appearing as several lines of a paragraph.

Third block of faint, illegible text, continuing the narrative or list.

Fourth block of faint, illegible text, possibly containing a list or table.

Fifth block of faint, illegible text, appearing as a distinct section.

Sixth block of faint, illegible text, continuing the content.

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PROCESS FIRST.

Chloride of Sodium, 1 eq.	{ Chlorine	1	—————	1	Chlorine disengaged.
	{ Sodium	1			
Binoxide of Manganese, 1 eq.	{ Oxygen	1			
	{ Protoxide of Manganese	1			
Sulphuric Acid		1	—————	1	Sulphate of Soda.
Sulphuric Acid		1	—————	1	Sulphate of Manganese.

PROCESS SECOND.

Hydrochloric Acid, 2 eqs.	{ Chlorine....	1	—————	1	Chlorine disengaged.
	{ Chlorine....	1			
	{ Hydrogen ..	2			
Binoxide of Manganese, 1 eq.	{ Manganese..	1	—————	1	Chloride of Manganese.
	{ Oxygen	2	—————	2	Water.

ACTION OF HYDROCHLORIC ACID ON A METAL.

Hydrochloric Acid, 1 eq.	{ Hydrogen ..	1	—————	1	Hydrogen disengaged.
	{ Chlorine ...	1			
Zinc		1	—————	1	Chloride of Zinc.

ACTION OF HYDROCHLORIC ACID ON A METALLIC OXIDE.

Hydrochloric Acid, 1 eq.	{ Hydrogen ..	1	—————	1	Water.
	{ Chlorine ...	1			
Oxide of Zinc, 1 eq.	{ Oxygen	1			
	{ Zinc	1	—————	1	Chloride of Zinc.

PREPARATION OF CARBONIC ACID.

Composition.	{ 1 Carbon =	6
	{ 2 Oxygen =	16
		—
		22 Equivalent.
		—

Carbonate of Lime.	{ Carbonic Acid	—————	Carbonic Acid disengaged.
	{ Oxygen	—————	Water.
	{ Calcium		
Hydrochloric Acid.	{ Hydrogen ...		
	{ Chlorine	—————	Chloride of Calcium.

PREPARATION OF CARBONIC OXIDE.

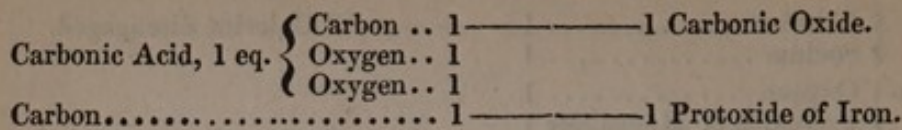
Composition.	{ 1 Carbon =	6
	{ 1 Oxygen =	8
		—
		14 Equivalent.
		—

Carbonic oxide may be prepared by passing carbonic acid over red hot charcoal or iron filings, or by mixing sulphuric and oxalic acids and applying a gentle heat; the annexed diagrams illustrate the decompositions.

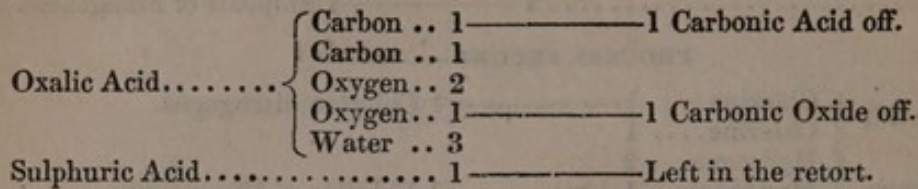
PROCESS FIRST.

Carbonic Acid, 1 eq.	{ Carbon ..	1	—————	1	Carbonic Oxide.
	{ Oxygen ..	1			
	{ Oxygen ..	1			
Carbon		1	—————	1	Carbonic Oxide.

PROCESS SECOND.

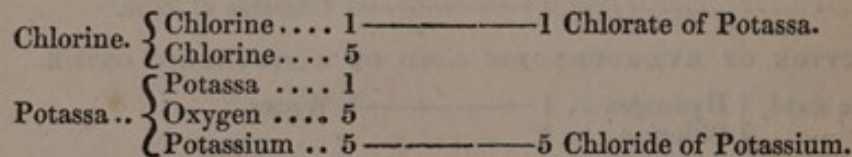


PROCESS THIRD.



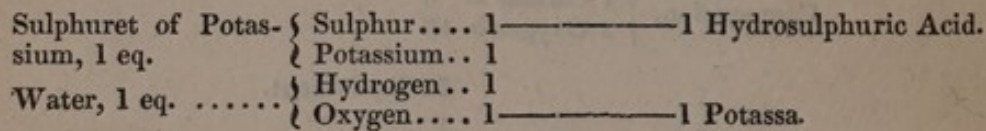
The carbonic acid formed in the last process is removed by agitating the gases with lime water.

PREPARATION OF CHLORATE OF POTASSA.



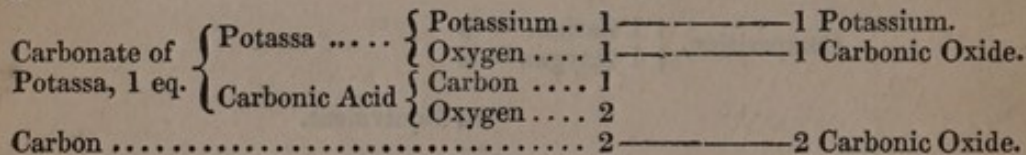
The chlorate is easily separated by evaporation and crystallization.

When sulphuret of potassium is put into water, the following changes take place.

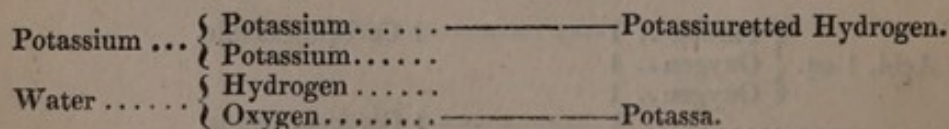


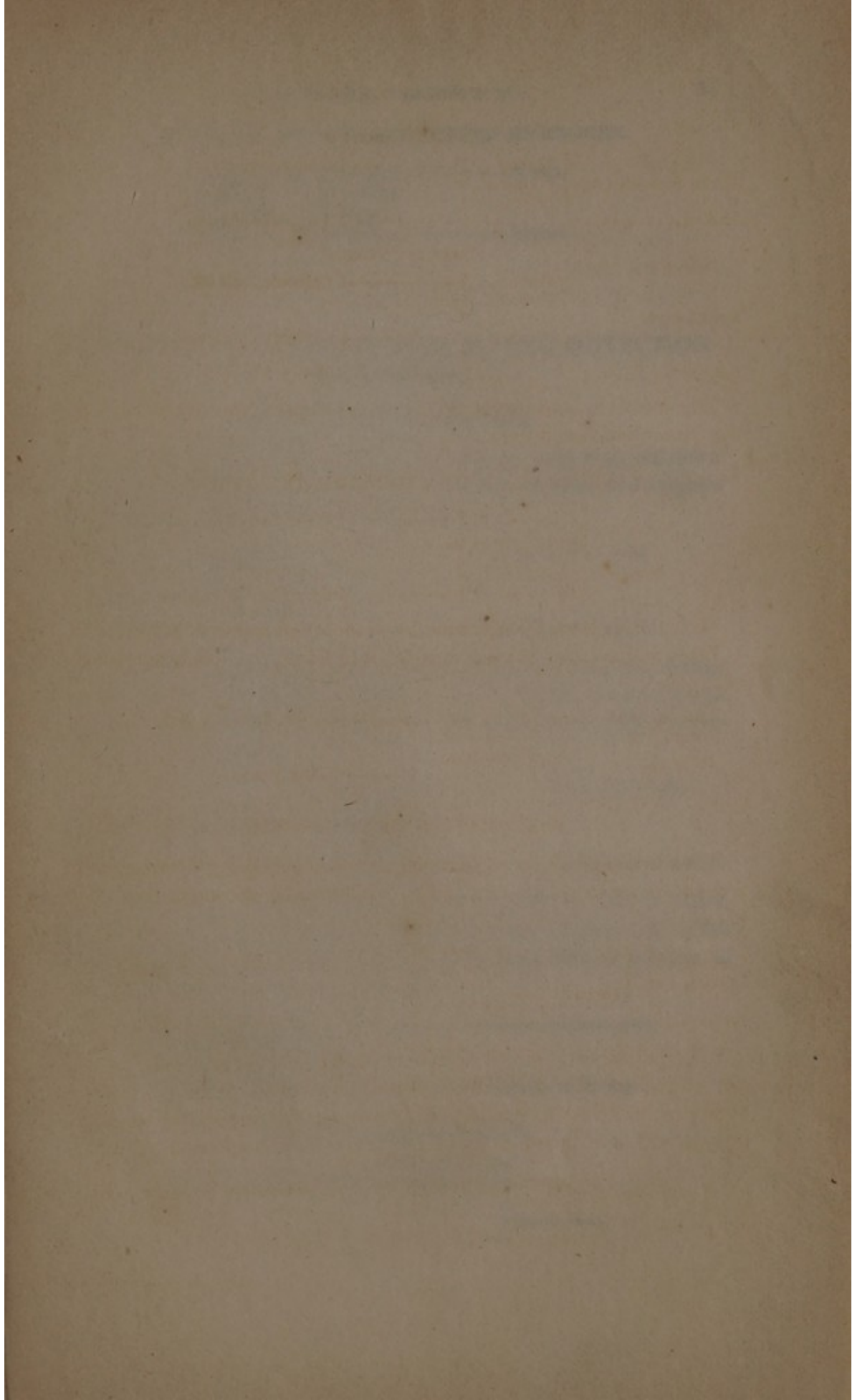
PREPARATION OF POTASSIUM.

When two equivalents of charcoal and one equivalent of carbonate of potassa are heated in an iron bottle, the following decomposition takes place.



When potassium is placed on water, the latter is decomposed, its oxygen combining with a portion of potassium forms potassa, while its hydrogen, with another portion of potassium, forms potassiuretted hydrogen, which, inflaming as it escapes, is resolved into potassa and water.





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DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS
1950

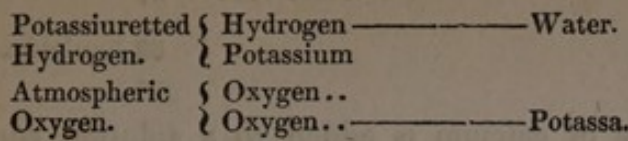
The following report was prepared by the author in connection with the work of the Department of Chemistry, University of Chicago.

PRELIMINARY EXPERIMENTAL RESULTS ON POTASSIUM

The following results were obtained by the author in connection with the work of the Department of Chemistry, University of Chicago. The results are given in the following table.

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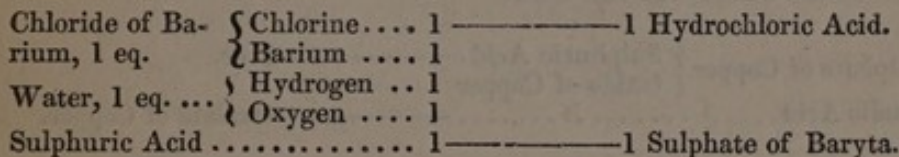
COMBUSTION OF POTASSIURETTED HYDROGEN.



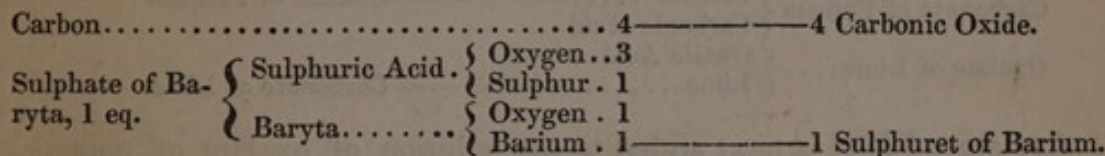
DIAGRAMS OF PROCESSES USED IN THE DETECTION OF POISONS.

TESTS FOR SULPHURIC ACID.

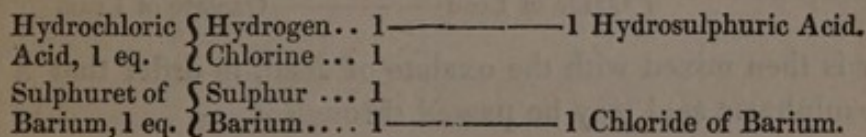
When chloride of barium is added to a solution containing sulphuric acid, water is decomposed, hydrochloric acid being formed, and sulphate of baryta precipitated, insoluble in nitric acid.



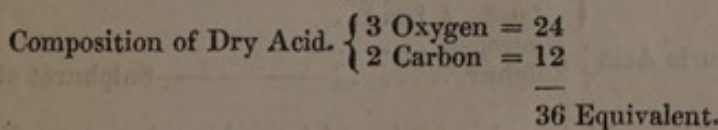
The sulphate of baryta being heated with charcoal, the 4 eqs. of oxygen contained in the sulphate unite with 4 eqs. of carbon, to form 4 eqs. of carbonic oxide, which are expelled, while the sulphur forms a sulphuret with the barium.



To the sulphuret of barium thus obtained hydrochloric acid is added, chloride of barium is formed, and hydrosulphuric acid given off, which may be known by its blackening paper moistened with a solution of acetate of lead and held over the fumes.



TESTS FOR OXALIC ACID.



Composition of Crystals.	{	1 Oxalic Acid = 36	
	{	3 Water = 27	
		—	
		63 Equivalent.	
		—	

When chloride of calcium is added to a solution containing oxalic acid, hydrochloric acid is formed, and a heavy white oxalate of lime thrown down, soluble in nitric acid, but not in hydrochloric acid, unless in excess.

Chloride of Cal-	{	Chlorine 1	—	—	—	1 Hydrochloric Acid.
cium, 1 eq.	{	Calcium 1				
Water, 1 eq.	{	Hydrogen .. 1				
	{	Oxygen 1				
Oxalic Acid	{	1	—	—	—	1 Oxalate of Lime.

Sulphate of copper causes a greenish white precipitate of oxalate of copper, not dissolved by a small quantity of hydrochloric acid, but completely so in an excess of the acid.

Sulphate of Copper	{	Sulphuric Acid. ————	Free.
	{	Oxide of Copper	
Oxalic Acid	{	—————	Oxalate of Copper.

When chalk has been taken as an antidote, an insoluble oxalate of lime is already formed; this must be boiled with carbonate of potassa; oxalate of potassa and carbonate of lime are thus formed; the former is held in solution, the latter is precipitated.

Carbonate of Potassa	{	Potassa	—————	Oxalate of Potassa.
	{	Carbonic Acid		
Oxalate of Lime	{	Oxalic Acid . .		
	{	Lime	—————	Carbonate of Lime.

Acetate of lead is next added to the solution of oxalate of potassa, oxalate of lead is thrown down, and acetate of potassa remains in solution.

Oxalate of Potassa . .	{	Potassa	—————	Acetate of Potassa.
	{	Oxalic Acid . .		
Acetate of Lead	{	Acetic Acid . .		
	{	Oxide of Lead	—————	Oxalate of Lead.

Water is then mixed with the oxalate of lead, in order that a stream of hydrosulphuric acid may be passed through it.

Oxalate of Lead	{	Oxalic Acid	—————	Oxalic Acid free.
	{	Oxide of Lead	—————	— Water.
	{	Hydrogen		
Hydrosulphuric Acid	{	Sulphur	—————	Sulphuret of Lead.

The free oxalic acid may be again subjected to the preceding tests.

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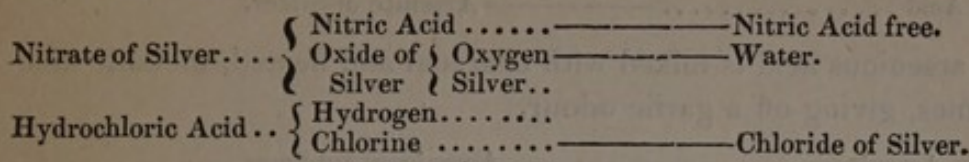
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TESTS FOR HYDROCHLORIC ACID.

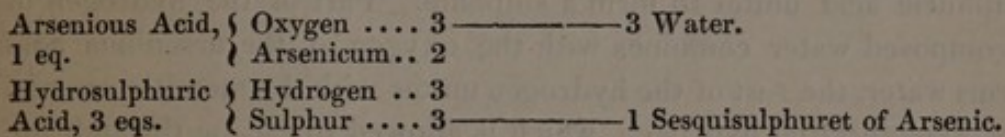
When nitrate of silver is added to a solution containing hydrochloric acid, water and chloride of silver are the results.



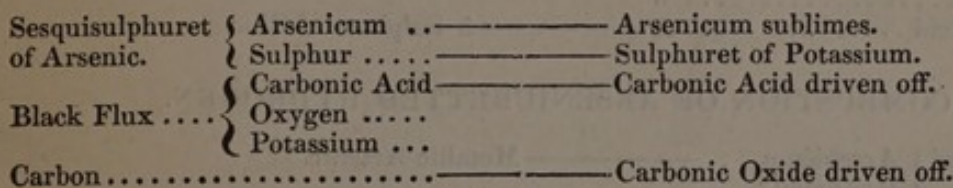
Chloride of silver is insoluble in nitric acid, and is not decomposed by heat, but fuses, assuming the appearance of horn, and is thence termed horn silver.

TESTS FOR ARSENIOS ACID.

When a stream of sulphuretted hydrogen is passed through a solution containing arsenious acid, water and yellow sesquisulphuret of arsenic are formed.

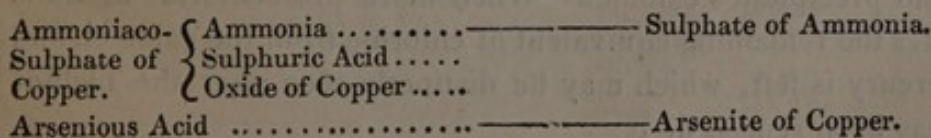


When sesquisulphuret of arsenic is mixed with black flux (a mixture of carbonate of potassa and carbon) and heated, the carbonic acid of the carbonate is driven off, and the oxygen of the potassa unites with free carbon, forming carbonic oxide, which is also expelled. The sulphur of the sesquisulphuret combines with the deoxidized potassium, forming a sulphuret, whilst the arsenicum is sublimed and deposited on the sides of the tube. A portion of arsenicum also combines with a little potassium.

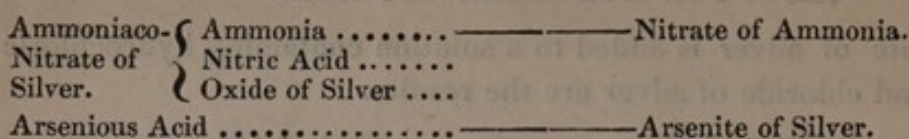


By heating the metallic arsenic, thus obtained, in contact with the air, arsenious acid is formed; this may be next tested by the ammoniacosulphate of copper and ammoniaco-nitrate of silver, the former causing a precipitate of arsenite of copper named Scheeles' green, the latter of a yellow arsenite of silver named Queen's Yellow.

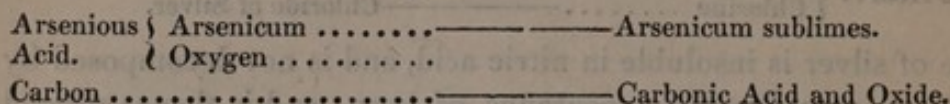
PROCESS FIRST.



PROCESS SECOND.

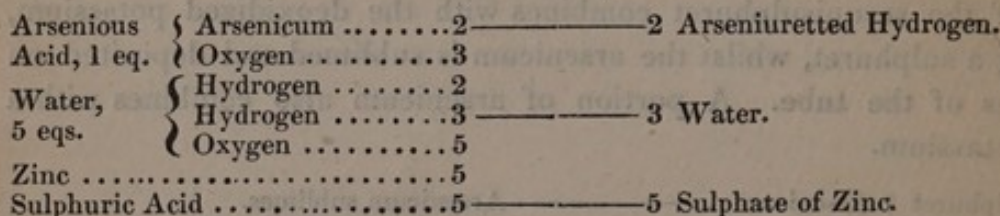


When arsenious acid is mixed with charcoal and heated, metallic arsenic sublimes, giving off a garlic odour.

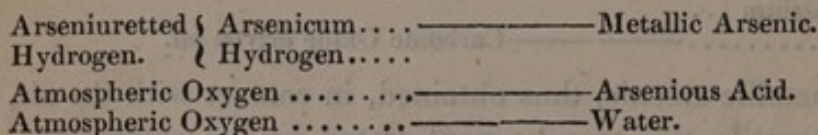


MARSH'S TEST.

When zinc, sulphuric acid, and a solution of arsenious acid are placed in a vessel furnished with a stop-cock, the water is decomposed, the oxygen of which combines with the zinc, forming an oxide with which the sulphuric acid unites to form a sulphate. Part of the hydrogen of the decomposed water combines with the oxygen of the arsenious acid and forms water, the rest of the hydrogen unites with the metallic arsenic, forming arseniuretted hydrogen, which is allowed to escape through the stop-cock. The gas is then inflamed and the results of combustion, (namely, metallic arsenic, arsenious acid, and water,) are collected on a plate of glass held horizontally over the flame. The following diagram shows a more precise view of the changes which occur.



COMBUSTION OF ARSENIURETTED HYDROGEN.



TESTS FOR BICHLORIDE OF MERCURY.

When protochloride of tin is added to a solution of bichloride of mercury, the protochloride of tin takes 1 equivalent of chlorine from the bichloride and precipitates calomel. When more protochloride of tin is added, it takes the remaining equivalent of chlorine from the calomel, and metallic mercury is left, which may be distinctly seen after the bichloride of tin has been removed.

1875

The first part of the report is devoted to a general survey of the progress of the work during the year. It is found that the work has been carried on in accordance with the plan laid down in the previous report, and that the results have been such as to justify the confidence placed in the plan.

The second part of the report is devoted to a detailed account of the work done during the year. It is found that the work has been carried on in accordance with the plan laid down in the previous report, and that the results have been such as to justify the confidence placed in the plan.

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Protochloride of Tin1	—————1	Bichloride of Tin.
Protochloride of Tin1	—————1	Bichloride of Tin.
Bichloride of Mercury,	{ Chlorine.....1 Chlorine.....1 Mercury.....1	—————1	Metallic Mercury precipitated.
1 eq.			

SECOND TEST.

When two equivalents of iodide of potassium are added to a solution of bichloride of mercury, double decomposition takes place. Two equivalents of chlorine unite with two of potassium forming two equivalents of chloride of potassium, which remain in solution; the two equivalents of iodine combine with one of mercury to form biniodide of mercury, which is precipitated in the form of a bright scarlet coloured powder.

Iodide of Potassium, 2 eqs.	{ Potassium.....2 Iodine.....2	—————2	Chloride of Potassium.
Bichloride of Mercury, 1 eq.		{ Chlorine.....2 Mercury.....1	—————1

Biniodide of mercury is alternately dissolved and thrown down by iodide of potassium and bichloride of mercury. Chloride of sodium dissolves it entirely.

THIRD TEST.

When a drop of a solution of bichloride of mercury is placed on a piece of polished gold, and the moistened surface touched with a piece of iron, a galvanic current is produced which decomposes the bichloride. The mercury forms a white amalgam with the gold at the negative pole, and the chlorine unites with the iron at the positive pole.

Gold	—————	Amalgamate.
Bichloride of Mercury.	{ Mercury..... Chlorine.....		
Iron		—————

FOURTH TEST.

Solution of potassa being added to bichloride of mercury produces two equivalents of chloride of potassium, which are held in solution, and precipitates one equivalent of binoxide of mercury in the form of a yellow powder.

Potassa, 2 eqs.	{ Potassium..... 2 Oxygen..... 2	—————2	Chloride of Potassium.
Bichloride of Mercury, 1 eq.		{ Chlorine..... 2 Mercury..... 1	—————1

FIFTH TEST.

Lime-water, also, added to bichloride of mercury throws down a precipitate of binoxide, but in this case the colour is of a reddish yellow tint.

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B.

Sesquisulphuret of Antimony. { Antimony ————— Metallic Antimony.
 { Sulphur ..
 Hydrogen ————— Hydrosulphuric Acid.

TESTS FOR LEAD.

Hydrosulphuric acid throws down a black sulphuret of lead.

Acetate of Lead. { Acetic Acid ————— Acetic Acid, free.
 { Oxygen ————— Water.
 { Lead
 Hydrosulphuric Acid. { Hydrogen
 { Sulphur ————— Sulphuret of Lead.

Iodide of potassium gives a yellow precipitate of iodide of lead.

Acetate of Lead. { Acetic Acid ————— Acetate of Potassa.
 { Oxygen
 { Lead
 Iodide of Potassium. { Potassium
 { Iodine ————— Iodide of Lead.

Chromate of potassa throws down a yellow chromate of lead.

Chromate of Potassa. { Potassa ————— Acetate of Potassa.
 { Chromic Acid...
 Acetate of Lead. { Acetic Acid
 { Oxide of Lead .. ————— Chromate of Lead.

Alkalies and alkaline carbonates give white precipitates with soluble salts of lead, consisting of oxide and carbonate of lead.

Sulphuric acid throws down a white sulphate of lead.

TESTS FOR COPPER.

FIRST TEST.

Ammonia added to a solution of a salt of copper seizes the acid and throws down the oxide of a pale blue colour, which is re-dissolved by an excess of the volatile alkali.

Ammonia ————— Sulphate of Ammonia.
 Sulphate of Copper. { Sulphuric Acid
 { Oxide of Copper ————— Oxide of Copper.

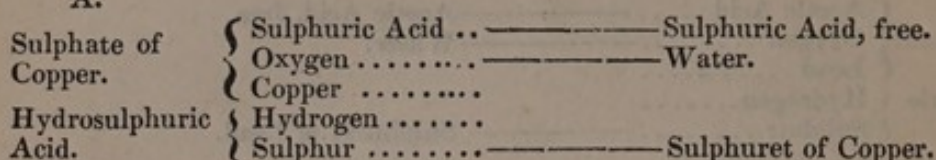
SECOND TEST.

When a polished piece of iron is put into a solution of sulphate of copper, sulphate of iron is formed and copper deposited in the metallic state.

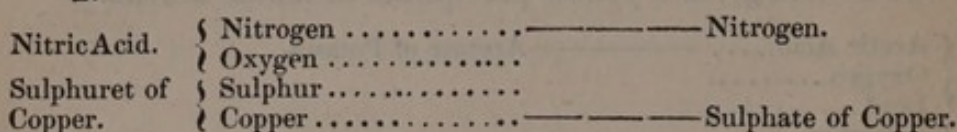
Iron ————— Sulphate of Iron.
 Sulphate of Copper. { Sulphuric Acid
 { Oxygen
 { Copper ————— Metallic Copper.

When copper is contained in mixed fluids, hydrosulphuric acid is the best test. The resulting sulphuret having been collected and heated to redness that the organic matter may be charred, is next to be placed on a piece of porcelain and digested with nitric acid. The sulphuret is converted into a sulphate at the expense of the nitric acid, and may be submitted to the re-action of the foregoing tests.

A.



B.



TESTS FOR MORPHIA.

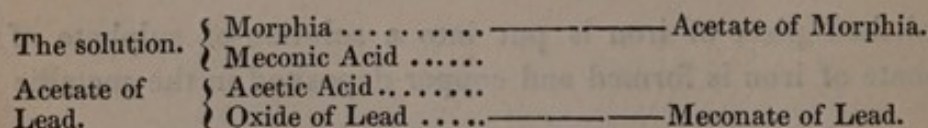
Nitric acid added to morphia causes it to assume an orange-red colour soon changing to yellow.

Morphia is dissolved by sesquichloride of iron, producing a deep greenish blue solution.

When iodic acid is added to morphia, the acid is decomposed, and the iodine set free, which forms a blue colour with starch.

TEST FOR MECONIC ACID.

When a persalt of iron is added to a solution containing meconic acid, a deep cherry or blood-red colour is produced, which is permanent on the addition of potassa or bichloride of mercury. Sulpho-cyanic acid gives a similar colour with a persalt of iron, but it is destroyed by potassa or bichloride of mercury. When an organic mixture is the subject of investigation it is to be freed in the usual manner from all insoluble matter, and from colour. To the solution containing meconate of morphia, acetate of lead is added, and the following decomposition ensues.



The meconate of lead is then suspended in water and sulphuretted hydrogen passed through it; sulphuret of lead is formed, and the meconic acid is obtained free.

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CHICAGO, ILLINOIS

REPORT OF THE
COMMISSIONERS OF THE
LAND OFFICE
OF THE STATE OF ILLINOIS
FOR THE YEAR 1880

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Meconate of Lead. { Meconic Acid Meconic Acid.
 { Oxygen Water.
 { Lead
 Sulphuretted Hydrogen. { Hydrogen
 { Sulphur Sulphuret of Lead.

The solution from which the meconic acid has been removed by the acetate of lead, contains acetate of morphia, to this ammonia is added, which unites with the acetic acid, and the morphia is precipitated.

Ammonia Acetate of Ammonia.
 Acetate of Morphia. { Acetic Acid
 { Morphia Morphia.

The following TABLE shows the CLASSES into which Simple Bodies are divided, their NAMES, CHEMICAL EQUIVALENTS, SPECIFIC GRAVITIES, and the COMPOUNDS which they form with Oxygen.

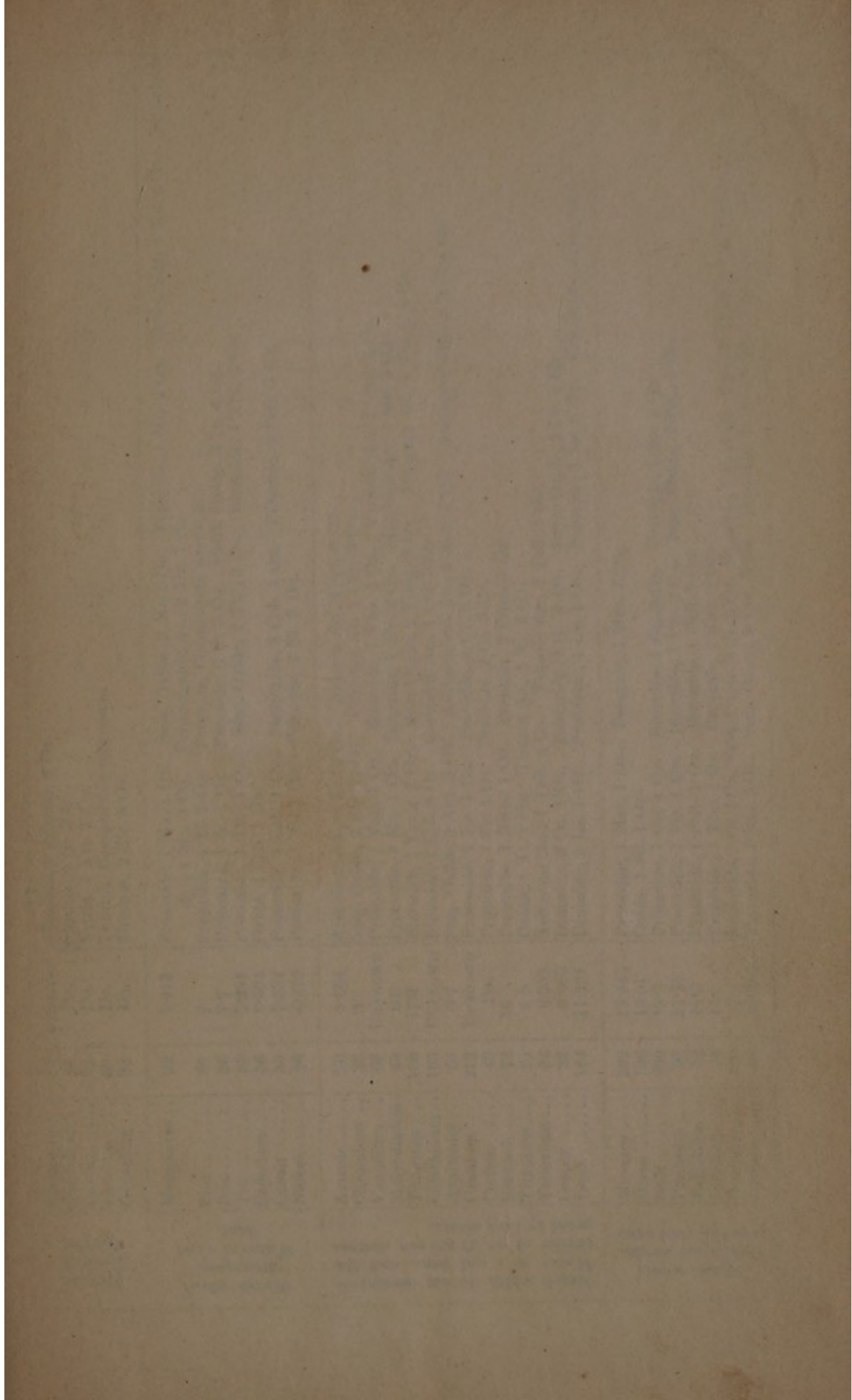
		Compounds with Oxygen.	
Class.	Name.	Equiv.	Sp. Gr.
Simple Gases.	Oxygen	8	1.102
	Hydrogen	1	0.069
	Nitrogen	14	0.972
	Chlorine	36	2.47
	Fluorine	18	1.060
Simple Non Metallic Substances.	Carbon	6	1.99
	Sulphur	16	4.3
	Selenium	40	1.77
	Phosphorus	16	4.948
	Iodine	126	2.
Simple Metallic Bases of Alkalis.	Boron	20	2.738
	Bromine	78	
	Silicon	22	
	Potassium	40	0.865
	Sodium	24	0.972
Metallic Bases of Earths.	Lithium	8	Unknown
	Barium	68	Do.
	Strontium	44	Do.
	Calcium	20	Do.
	Magnesium	12	Do.
Metallic Bases of Alkalis.			

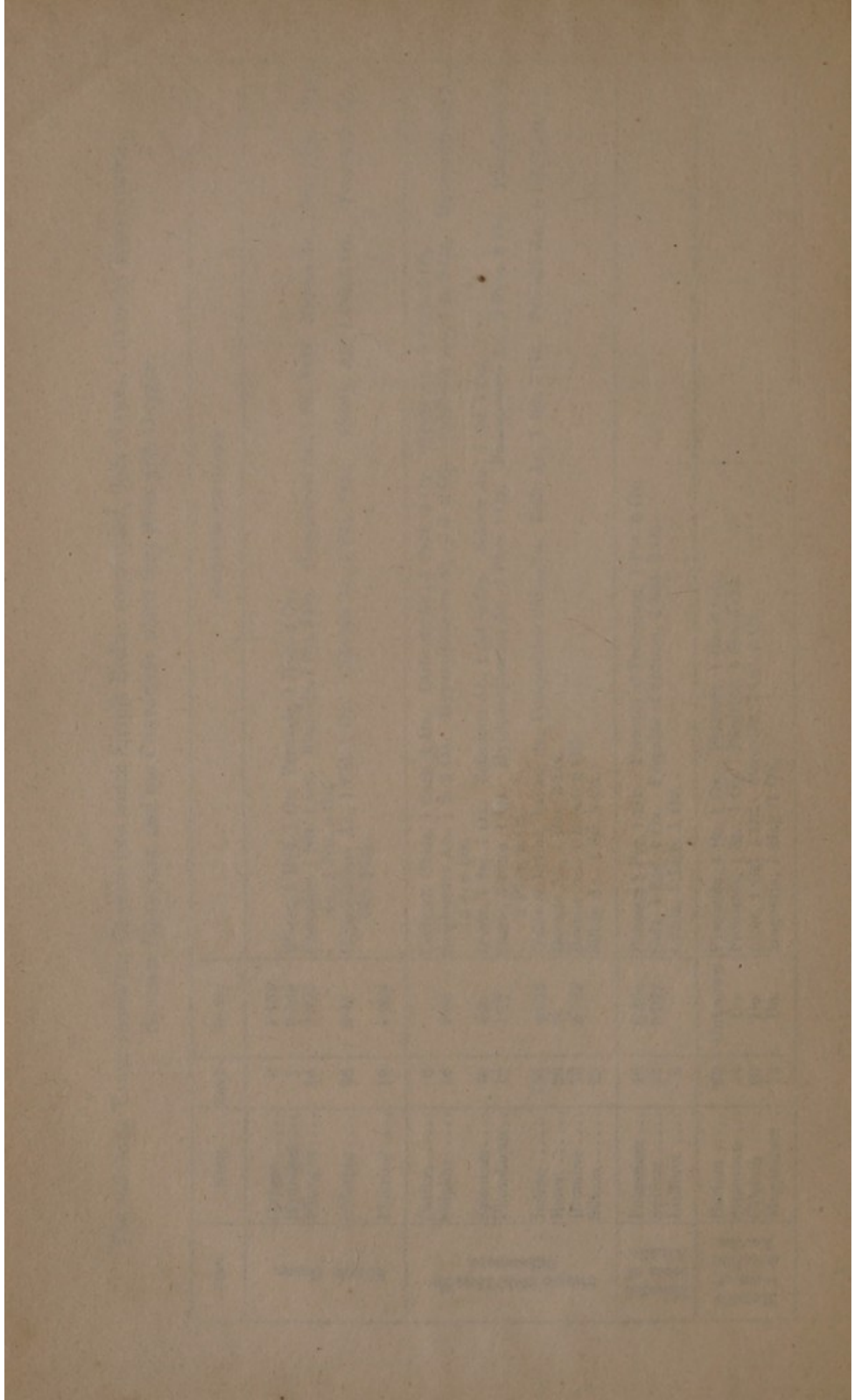
Water, 1 Hyd. 1 Ox. Peroxide, 1 Hyd. 2 Ox.
 Protoxide, 1 Nit. 1 Ox. Bin oxide, 1 Nit. 2 Ox. Hyponitrous Ac., 1 Nit. 3 Ox. Nitrous Ac., 1 Nit. 4 Ox. Nitric Ac., 1 Nit. 5 Ox.
 Hypochlorous Ac., 1 Chl. 1 Ox. Chlorous Ac., 1 Chl. 4 Ox. Chloric Ac., 1 Chl. 5 Ox. Perchloric Ac., 1 Chl. 7 Ox.

Carbonic Oxide, 1 Carb. 1 Ox. Carbonic Ac., 1 Carb. 2 Ox. Oxalic Ac., 2 Carb. 3 Ox.
 Sulphurous Ac., 1 S. 2 Ox. Hyposulphurous Ac., 2 S. 2 Ox. Sulphuric Ac., 1 S. 3 Ox. Hyposulphuric Ac., 2 S. 5 Ox.
 Oxide, 1 Sel. 1 Ox. Selenious Ac., 1 Sel. 2 Ox. Selenic Ac., 1 Sel. 3 Ox.
 Oxide, 3 Phos. 1 Ox. Hypophosphorous Ac., 2 Phos. 1 Ox. Phosphorous Ac., 2 Phos. 3 Ox. Phosphoric Ac., 2 Phos. 5 Ox.
 Oxide of Iodine, Iodous Ac., Composition unknown. Iodic Ac., 1 Iod. 5 Ox. Periodic Ac., 1 Iod. 7 Ox.
 Boracic Ac., 1 Bor. 3 Ox.
 Bromic Ac., 1 Brom. 5 Ox.
 Silicic Ac., 1 Sil. 3 Ox.

Potassa, 1 Pot. 1 Ox. Peroxide of Potassium, 1 Pot. 3 Ox.
 Soda, 1 Sod. 1 Ox. Peroxide of Sodium, 2 Sod. 3 Ox.
 Lithia, 1 Lith. 1 Ox.

Protoxide, 1 Ba. 1 Ox. Peroxide, 1 Ba. 2 Ox.
 Protoxide, 1 Str. 1 Ox. Peroxide, 1 Str. 2 Ox.
 Lime, 1 Cal. 1 Ox. Peroxide, 1 Cal. 2 Ox.
 Magnesia, 1 Mag. 1 Ox.





Metals which decompose at a red heat.	Aluminum .. Glucinum .. Yttrium Thorium Zirconium ..	10 13 32 60 22	Unknown Do. Do. Do. Do.	Alumina, 2 Alumin. 3 Ox. Glucina, 1 Gl. 3 Ox. Yttria, 1 Ytt. 1 Ox. Thorina, Composition unknown. Zirconia, 2 Zir. 3 Ox.
Metals which decompose at a red heat.	Manganese .. Zinc .. Iron .. Tin .. Cadmium .. Cobalt .. Nickel ..	23 32 28 58 56 30 28	8·013 7· 7·7 7·291 8·604 7·334 8·279	Protoxide, 1 Ma. 1 Ox. Sesq. Oxide, 2 Ma. 3 Ox. Peroxide, 1 Ma. 2 Ox. Red Oxide, 3 Ma. 4 Ox. Manganic Ac., 1 Ma. 3 Ox. Permanganic Ac., 2 Ma. 7 Ox. Protoxide, 1 Zi. 1 Ox. Peroxide, Composition uncertain. Protoxide, 1 Ir. 1 Ox. Peroxide, 2 Ir. 3 Ox. Black Oxide, 3 Ir. 4 Ox. Protoxide, 1 Tin, 1 Ox. Sesq. Oxide, 2 Tin, 3 Ox. Binooxide, 1 Tin, 2 Ox. Oxide, 1 Cad. 1 Ox. Protoxide, 1 Cob. 1 Ox. Deutoxide, 3 Cob. 4 Ox. Peroxide, 2 Cob. 3 Ox. Protoxide, 1 Ni. 1 Ox. Peroxide, 2 Ni. 3 Ox.
Water at a red heat, and the Oxides of which are not decomposed by heat alone.	Arsenic .. Chromium .. Vanadium .. Molybdenum .. Tungsten .. Columbium .. Antimony .. Uranium .. Cerium .. Bismuth .. Titanium .. Tellurium .. Copper .. Lead ..	38 28 68 48 100 185 65 217 48 72 24 32 32 104	5·384 5· Unknown 8·6 17·4 Unknown 6·7 Unknown Do. 10· 5·3 6·257 8·667 11·381	Arsenious Ac., 2 Ar. 3 Ox. Arsenic Ac., 2 Ar. 5 Ox. Sesq. Oxide, 2 Chr. 3 Ox. Chromic Ac. 1 Chr. 3 Ox. Protoxide, 1 Van. 1 Ox. Binooxide, 1 Van. 2 Ox. Vanadic Ac., 1 Van. 3 Ox. Protoxide, 1 Mo. 1 Ox. Binooxide, 1 Mo. 2 Ox. Molybdic Ac., 1 Mo. 3 Ox. Binooxide, 1 Tung. 2 Ox. Blue Oxide, 2 Tung. 3 Ox. Tungstic Ac., 1 Tung. 3 Ox. Binooxide, 1 Col. 2 Ox. Columbic Ac., 1 Col. 3 Ox. Sesq. Oxide, 2 Ant. 3 Ox. Antimonious Ac., 2 Ant. 4 Ox. Antimonic Ac., 2 Ant. 5 Ox. Protoxide, 1 Ur. 1 Ox. Peroxide, 2 Ur. 3 Ox. Protoxide, 1 Ce. 1 Ox. Peroxide, 2 Ce. 3 Ox. Protoxide, 1 Bism. 1 Ox. Peroxide, 2 Bism. 3 Ox. Oxide, 1 Ti. 1 Ox. Titanic Ac., 1 Ti. 2 Ox. Tellurous Ac., 1 Tell. 2 Ox. Telluric Ac., 1 Tell. 3 Ox. Dinoxide, 2 Co. 1 Ox. Protoxide, 1 Co. 1 Ox. Super Oxide, 1 Co. 2 Ox. Dinoxide, 2 Le. 1 Ox. Protoxide, 1 Le. 1 Ox. Peroxide, 1 Le. 2 Ox. Red Oxide, 3 Le. 4 Ox.
Metals whose Oxides are decomposed by a red heat.	Mercury .. Silver .. Gold .. Platinum .. Palladium .. Rhodium .. Osmium .. Iridium ..	202 108 200 98 54 52 100 98	13·545 10·51 19·3 21·25 11·3 11· 7· 15·862	Protoxide, 1 Mer. 1 Ox. Peroxide, 1 Mer. 2 Ox. Oxide, 1 Sil. 1 Ox. Protoxide, 1 Go. 1 Ox. Binooxide, 1 Go. 2 Ox. Peroxide, 1 Go. 3 Ox. Protoxide, 1 Pla. 1 Ox. Binooxide, 1 Pla. 2 Ox. Sesq. Oxide, 2 Pla. 3 Ox. Protoxide, 1 Pall. 1 Ox. Binooxide, 1 Pall. 2 Ox. Protoxide, 1 Rho. 1 Ox. Peroxide, 2 Rho. 3 Ox. Protoxide, 1 Os. 1 Ox. Sesq. Oxide, 2 Os. 3 Ox. Binooxide, 1 Os. 2 Ox. Peroxide, 1 Os. 3 Ox. Osmic Ac., 1 Os. 4 Ox. Protoxide, 1 Irid. 1 Ox. Sesq. Oxide, 2 Irid. 3 Ox. Binooxide, 1 Irid. 2 Ox. Peroxide, 1 Irid. 3 Ox.

TESTS FOR THE MORE COMMON SPECIES OF CALCULI.

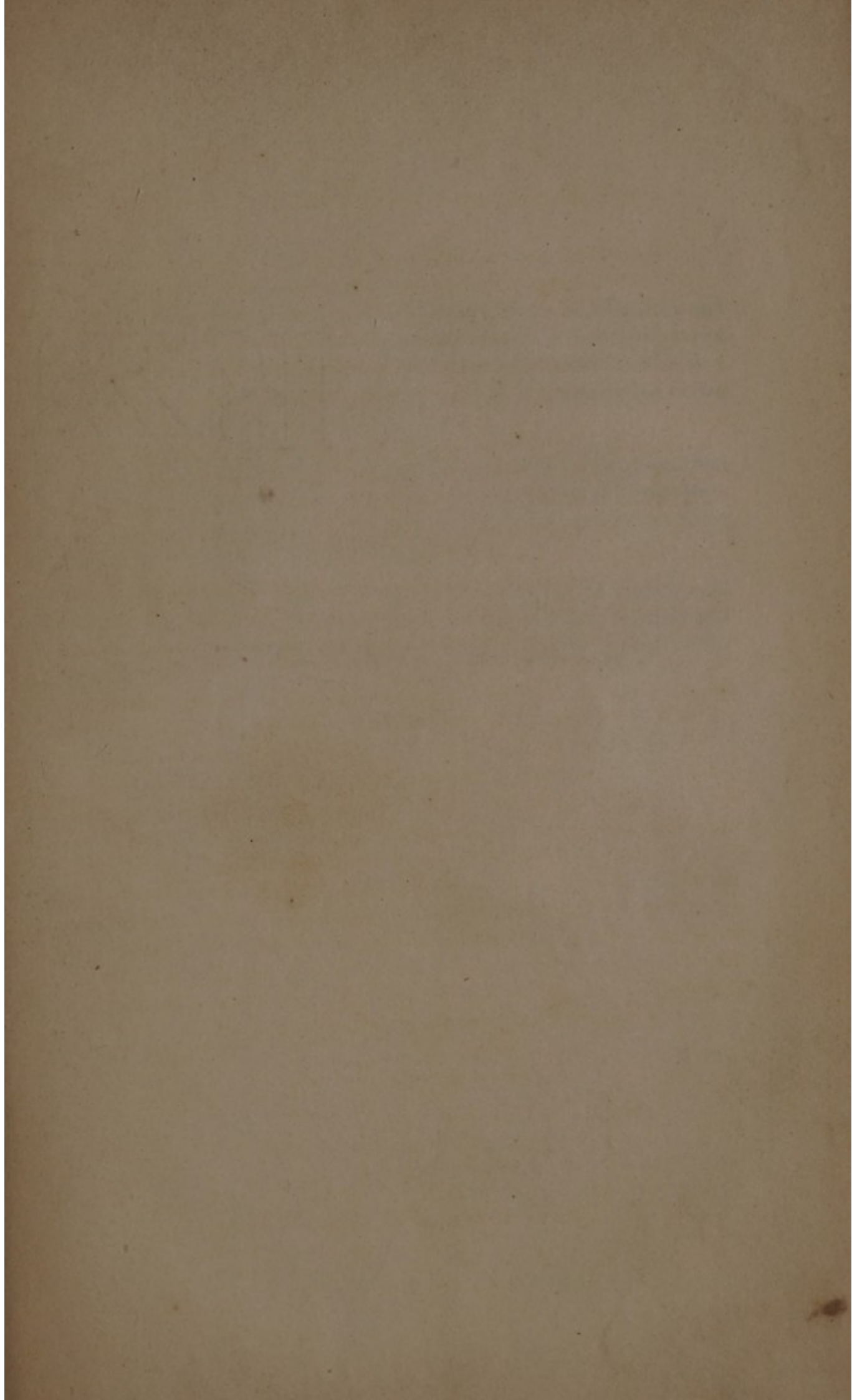
1. Uric or lithic acid calculus is of a brownish colour and laminated texture, and has a smooth surface. Before the blowpipe it blackens, giving off an ammoniacal odour, and is gradually consumed, leaving a minute portion of white ash. It is soluble in potassa and in nitric acid, the latter solution yielding on evaporation purpurate of ammonia, known by its fine purple colour;—in water and hydrochloric acid it is sparingly soluble.

2. Phosphate of lime calculus is of a pale brown colour and loosely laminated texture; its surface is smooth. Before the blowpipe it first blackens and then assumes a white colour, remaining unchanged, unless the heat be very intense, when it fuses;—in potassa it is insoluble, but is soluble in dilute nitric and hydrochloric acids.

3. Phosphate of ammonia and magnesia calculus is of a whitish colour. Before the blowpipe ammonia is given off, and phosphate of magnesia left. Its solution in hydrochloric acid is not affected by oxalate of ammonia;—it is soluble in cold acetic acid.

4. The fusible calculus is a mixture of the two former species; its colour is white, and it is very friable, resembling chalk. Before the blowpipe it easily fuses into a pearly globule; acetic acid dissolves the phosphate of ammonia and magnesia, and the phosphate of lime which is left is soluble in hydrochloric acid. From the latter solution, oxalate of ammonia throws down oxalate of lime.

5. The oxalate of lime or mulberry calculus is of a dark brown colour, and hard texture; its surface is tuberculated. Before the blowpipe the oxalic acid is decomposed, and pure lime remains. This calculus is not dissolved by the alkalies but is decomposed by carbonate of potassa, an insoluble carbonate of lime being formed;—it is insoluble in acetic and phosphoric acids, and is thus distinguished from the phosphate of ammonia and magnesia, and from the phosphate of lime calculi.



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