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WADC TECHNICAL REPORT 55-16

HANDBOOK OF TOXICOLOGY

Volume 1e I

EDITED BY
WILLIAM S. SPECTOR

Prepared under the Direction of the Committee
on the Handbook of Biological Data

Division of Biology and Agriculture
The National Academy of Sciences
The National Research Council

April 19, 1955

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Foreword

These tables of data on Toxicology, prepared under Aero Medical Laboratory Contract No. AF 33(616)-2873 between the National Academy of Sciences and the Wright Air Development Center, comprise Volume I of the Handbook of Toxicology. Under the same contract, additional volumes are scheduled for publication in 1956. The contract is administered under direction of the Aero Medical Laboratory, Directorate of Research, Wright Air Development Center, Dr. George Kitzes acting as project director, Project No. 7159, "Health Hazards of Air Force Materials".

Data for tables in all volumes were contributed by experts in various areas of the fields represented. The tables were assembled by the Handbook Staff and reviewed by specialists in the subjects covered. The work was carried out under the direction of the Committee on the Handbook of Biological Data, operating under the Division of Biology and Agriculture of the National Academy of Sciences-National Research Council.

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Abstract

This report presents, in tabular form, data on acute toxicities of more than 2,000 substances for several species of commonly used laboratory animals. The values have been culled from the literature over a period of years, and wherever possible have recently been rechecked with original publications. To enhance reliability, and consequently usefulness, of the tables, the data have been exhaustively reviewed by twenty-eight experts in the field.

The tables in this unusually complete collection of toxicity values are unique in their treatment of the well-known phenomenon of toxicological variability. In addition to indicating a single value on the toxicity of each substance for a given animal, the table presents information concerning the lethal dosage range, vehicle, route of administration, and time of death, whenever such information was available in the references. The literature source cited for each line of data is presented on that line to facilitate rapid location of additional material for which space was not available in the book.

Supplementing the quantitative data are (1) an easily comprehensible and directly useable cross index of chemical compounds, including synonyms; (2) a complete list of abbreviations with full titles of references cited in the volume; and (3) a compilation of all symbols, with definitions therefor, used in the text.

A lucid introduction explains some of the problems encountered in compiling toxicity values and the reasons for such wide variations in these values even within a single species. The introduction emphasizes that this book is intended to be used as a "yardstick" rather than as a collection of explicit and definitive values.

Publication Review

This report has been reviewed and is approved.

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Future Volumes

(Tentative Publication Date, 1956)

It is expected that subsequent volumes will include, but not necessarily be limited to, the following tables:

- Table III. Maximum Allowable Concentration ("MAC") of Gases, Vapors, Fumes, and Dusts in Inspired Air: Man
- Table IV. Maximum Allowable Concentrations of Toxic Substances in Drinking Water: Man and Various Livestock and Wildlife
- Table V. Lethal Concentrations in Water of Salts and Industrial Wastes: Fish and Invertebrates
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- Table XVIII. Carcinogenic Agents
- Table XIX. Antidotes
- Table XX. Histological and Physiological Effects of Toxic Substances on Cells, Tissues, and Organs
- Table XXI. Metabolites of Toxic Compounds

Introduction

This volume presents tabular data on the acute toxicity of various substances for several species of commonly used laboratory animals, as determined by oral or parenteral administration, or inhalation, of fatal doses.* The guiding principle in selection of material has been that it be of basic importance and from reliable literature sources. Some data of value have had to be omitted either because they were not on hand for publication or because time has not permitted the necessary preparatory steps for printing. The fact that certain data have been compiled and are already in print, or available in other form, has not been regarded as a reason for excluding them from the Handbook. Every page of this volume has been examined for accuracy by the contributors of the data and by a panel of review experts.

In tabulating this information the chief objective has been clarity of presentation. To maintain this clarity, only the most fundamental data appear in the body of the table. Footnotes have been used to supply additional facts in many instances so that simplification of the table structure could be achieved. Other material, pertinent to the values within the table but prohibited by the limitations of space, are to be found in the literature, and for this reason the reference for each line of data is presented on that line. Because of space limitations, only the principal author (initials omitted) is given for each reference. In several cases the values in the table have been calculated from the values in the references, e.g., from cc to mg/kg or from tons to salts. Chemical nomenclature, as it appears in the tables, has been kept exactly as contributed and is identical with that in the literature reference. Thus it may be that for some compounds proprietary names will be given and for others, official designations. However, a cross index at the back of the book contains a multitude of synonyms to facilitate location of any compound within the book.

It must be emphasized that the values presented in these tables are by no means absolute and should be interpreted only as a "yardstick" of toxicity for the compounds listed. Again, the literature reference, in most cases, will reveal the number of determinations, the number of animals in each determination, and conditions under which determinations were made. Some of the conditions which influence toxicity of any given compound are as follows:

- a. Dose: Generally, the larger the dose the more rapid the action.
- b. Rate of absorption: The faster this rate, the quicker the action of the drug. With oral administration the lethal dose may be considerably influenced by the condition of the gastrointestinal tract, especially by the amount of food and fecal material in the stomach and intestine.
- c. Route of administration: For the most part, toxicity is greatest by the route that carries the toxic substance to the bloodstream most rapidly. In descending order of speed of action, routes for most drugs are: intravenous, inhalation, intraperitoneal, intramuscular, subcutaneous, oral, and cutaneous. Food in the alimentary canal may delay or decrease toxic action; digestive enzymes may destroy or alter the compounds with resultant changes in the toxicity thereof. Certain compounds are harmless if taken orally and lethal when introduced parenterally; in many cases the converse is true. The toxicity of the drug may also vary considerably with the form in which it is administered, i.e., solid, in suspension, or in solution. In the last instance the toxicity again may be influenced by the solvent and the concentration.
- d. Site of injection: With subcutaneous injections, toxicity may be affected by the density of the subcutaneous tissue. With intravenous administration whether the injection is made into the femoral or jugular vein may be of importance, but in any case the rate of injection, or the amount of toxic material injected per minute, will considerably influence the value of the toxic dose.
- e. Other influences: Disease, environmental temperature, habit and tolerance, idiosyncrasy, diet, season of the year (especially with hibernating animals) may all affect the toxicity of a drug. The toxicity of chemicals will also vary with the species of animals used, and sometimes with different strains of the same species. Within the same strain the toxicity may differ with age, weight, sex, and the general conditions of the animals.

* Volume II of the Handbook of Toxicology is scheduled to appear early in 1956.

With all of the above variables exerting their individual or collective influences, it is important that the toxicity be delineated with reference to the time of death or the period of time for which fatalities are counted.

Unfortunately, only in rare instances are all these factors considered and specified in the literature on toxicity determinations. This renders the duplication of such data by different investigators extremely difficult if not impossible. At the present time, attempts are being made to put toxicity data on a quantitative basis. The older literature often refers simply to "lethal doses" (LD) or "minimal lethal doses" (MLD), meaning doses which will be fatal or the smallest dose which will kill a limited number of animals. By using a larger number of animals of comparative weight and sex for each level tested, attempts are now being made to determine more precisely the dose which will kill 50 percent (LD₅₀). These values can be further certified by the application of various statistical methods, by stating the degree of deviation of the single values from the mean or the slope of the toxicity curve.

In each instance where a numerical value is given in this volume, that value may be considered as the mean (or adjusted mean) of a group of measured values taken from one literature source and usually determined by one investigator. Wherever given in the reference, each such value is followed by an estimate of the lower and upper limits of the 95% range, a direct representation of the ordinary range of variation. Further calculations from values in these tables should not be undertaken without information on comparability and number of measurements. As mentioned previously in this introduction, space does not permit the inclusion of such collateral information, but the bibliographic references will lead to the original data where it should be found.

The 95% range may be estimated in several ways, the method depending upon the information available. The types of estimate most widely used are listed below. Range data as commonly encountered, including estimates of the 95% range, represent a mixture of the variability existing between individuals and the variability existing within individuals.

- a. By the method of greatest accuracy, the 95% range is obtained by fitting a recognized type of frequency curve to a group of measured values and excluding the extreme 2.5% of area under the curve at each end. Estimate is made by this procedure only when the group of values is relatively large.
- b. By a less accurate method, the 95% range is estimated by a simple statistical calculation, assuming a normal distribution and using the standard deviation. This estimate is used when the group of values is too small for curve fitting, as is usually the case.
- c. A third and still less accurate procedure for estimate of the 95% range is to take as range limits the highest value and lowest value of the reported sample group of measurements. It underestimates the 95% range for small samples (3 or 4 values) and overestimates for larger sample sizes, but may be used in preference to the preceding method when the sample shows convincing evidence that the variable is asymmetrical in distribution.
- d. The upper and lower limits of the ordinary range of variation, as estimated by an investigator experienced in measuring the quantity in question and based solely on general experience, constitute still another estimate of the 95% range. The trustworthiness of limits so placed should not be underestimated.

Ranges appearing in this volume may fall into any one of the four estimates listed. In many instances range data were not available.

The data in each table are, in the judgment of the contributors and reviewers, as authentic as can be procured under the conditions as they exist. It is recognized, however, that all data, and particularly data in the field of acute toxicity, are subject to continuing revision as investigators standardize techniques and make more measurements. The user of the volume is warned against attributing significance to small differences from species to species. He is invited to submit any values or ranges he feels should be given consideration, and is particularly invited to add to the coverage of the tables.

Abbreviations

- DOSE† -

LD	= Lethal Dose	The amount (dose) which kills an animal.
MLD	= Minimum lethal dose	The smallest of several doses which kills one of a group of test animals.
LD ₅₀		The amount (dose) which kills 50% of a group of test animals (usually 10 or more).
LD ₁₀₀		The amount (dose) which kills 100% of a group of test animals (usually 10 or more).
† - When, in the symbols listed, D is replaced by C, substitute the word "concentration" for "dose" (e. g., LD = Lethal Dose; LC = Lethal Concentration).		

- ROUTE OF ADMINISTRATION -

ct	= cutaneous	io	= intraocular
ic	= intracutaneous	ip	= intraperitoneal
ici	= intracisternal	iv	= intravenous
ice	= intracerebral	or	= oral
il	= intralumbar	rt	= rectal
im	= intramuscular	sc	= subcutaneous

- VEHICLE -

alc	= alcohol	det	= detergent
cot oil	= cotton oil	N saline	= normal saline
Dil	= diluted	Na salt	= sodium salt
Eth gly	= ethylene glycol	Par oil	= paraffin oil
G acacia	= gum acacia	pet oil	= petroleum oil
G arabic	= gum arabic	Prop gly	= propylene glycol
G traga	= gum tragacanth	sal	= saline
cello	= cellosolve	Ses oil	= sesame oil

Veg oil = vegetable oil

- MISCELLANEOUS -

*	= circa	mo	= month(s)
cont	= continuous	sec.	= secondary
da	= day(s)	Sev	= several
hr	= hours(s)	tert.	= tertiary
min	= minute(s)	wk	= week(s)

TOXICITY CLASSES

The toxicological data presented in this handbook are the result of extensive tests on laboratory animals. Frequently, toxicologists, industrial hygienists, industrial physicians, etc., are asked to translate these data into terminology that will readily describe the hazards associated with their use. Consequently, classes have been established to define the toxicity of a chemical material, in common terms, with reference to data obtained by specified animal tests. The following tabulation of toxicity classes is useful only for those data which are applicable.

COMBINED TABULATION OF TOXICITY CLASSES*

Various Routes of Administration					
Toxicity Rating	Commonly Used Term	LD ₅₀ Single Oral** Dose Rats	Inhalation 4 hr Vapor Exposure Mortality 2/6-4/6 Rats	LD ₅₀ Skin Rabbits	Probable Lethal Dose for Man
1	Extremely toxic	1 mg or less/kg	10 ppm	5 mg or less/kg	A taste, 1 grain
2	Highly toxic	1-50 mg	10-100	5-43 mg	1 teaspoon 4 cc
3	Moderately toxic	50-500 mg	100-1000	44-340 mg	1 ounce 30 gm
4	Slightly toxic	0.5-5 g	1000-10,000	35-2.81 g/kg	1 pint 250 gm
5	Practically non-toxic	5-15 g	10,000-100,000	2.82-22.59 g/kg	1 quart
6	Relatively harmless	15 g and more	>100,000	22.6 or more g/kg	>1 quart

* Hodge, H. C., and Sterner, J. H., American Industrial Hygiene Association Quarterly, 10:4, 93, Dec 1943.

** Standards for intravenous LD₅₀ for rats and rabbits may be obtained approximately by dividing the oral toxicity standards for rats by 10.



TABLE I

LETHAL DOSES OF SOLID AND LIQUID COMPOUNDS:
LABORATORY ANIMALS

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1	Abobioside	Cat	iv	LD ₅₀	0.6992
2	Abomonoside	Cat	iv	LD ₅₀	0.6790
3	Acetal	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	4570 8210
4	Acetaldehyde	Frog Mouse Rat Rat Rat Rabbit Rabbit	sc sc or sc ip sc iv	LD LD ₅₀ LD ₅₀ LD ₅₀ LD ₁₀₀ LD ^a LD ^a	800 560 1930 640 500 1200 300
5	Acetamide	Frog Rat Dog	sc or iv	LD ^a LD ₅₀ LD	200 30,400 >5000
6	p-Acetaminobenzaldehydethio- semicarbazone	Mouse	or	LD	950
7	1-Acetaminocarbazole	Rat	or	LD ₅₀	>3000
8	2-Acetaminocarbazole	Rat	or	LD ₅₀	>5000
9	3-Acetaminocarbazole	Rat	or	LD ₅₀	>6000
10	2-Acetaminodibenzofuran	Rat	or	LD ₅₀	>5000
11	3-Acetaminodibenzothiophene	Rat	or	LD ₅₀	1195
12	3-Acetamino-9-methylcarbazole	Rat	or	LD ₅₀	3115
13	p-Acetaminophenol	Rabbit	iv	MLD	3700
14	1-Acetamino-5, 6, 7, 8-tetra- hydrocarbazole	Rat	or	LD ₅₀	3865
15	3-Acetamino-5, 6, 7, 8-tetra- hydrocarbazole	Rat	or	LD ₅₀	>6000
16	Acetanilide	Mouse Rat Guinea pig Rabbit Rabbit Cat Cat Dog Dog Dog	sc or or or or or, iv iv or iv iv	LD LD ₅₀ MLD LD LD LD LD LD LD ^a	1300 ¹ 800 ² 200 1500-1600 900-1200 250 8.5-13.5 700 175-300 300-1200
17	Acetarsons ³	Rat Rat Guinea pig Rabbit Rabbit	or im or or or	LD LD MLD MLD LD ₅₀	>4500 >140 190 100 150

/1/ As a 55% solution in alcohol. /2/ As a 2% suspension in H₂O. /3/ Toxicity of different

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
0.3732-1.1500	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1
0.4832-0.8365	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	2
4240-4920			Smyth, J. Ind. Hyg. Tox. <u>31</u> :60, 1949. Ibid	3
1620-2240		24 hr 14 hr 10 min 24 hr Instant	Supniewski, J. Pharm. Exp. Ther. <u>30</u> :429, 1927. Skog, Acta pharmac. tox. <u>6</u> :299, 1950. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Skog, Acta pharmac. tox. <u>6</u> :299, 1950. Stotz, J. Biol. Chem. <u>152</u> :41, 1944. Supniewski, J. Pharm. Exp. Ther. <u>30</u> :429, 1927. Ibid	4
28,300-32,600			Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892. Smyth, unpublished data, Mellon Inst. Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892.	5
		2-5 da	Savini, C. rend. Soc. biol. <u>144</u> :1310, 1950.	6
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	7
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	8
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	9
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	10
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	11
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	12
			Hinsberg, Arch. exp. Path. Pharm. <u>33</u> :216, 1894.	13
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	14
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	15
	Alcohol H ₂ O H ₂ O Alcohol		Hale, Hyg. Lab. Bull. <u>53</u> , 1909. Smith, J. Pharm. Exp. Ther. <u>54</u> :159, 1935. Lépine, Rev. de med. <u>306</u> :1887. Munch, J. Am. Pharm. Assoc. <u>30</u> :91, 1941. Ibid Ibid Ibid Karczmar, Fed. Proc. <u>6</u> :341, 1947. Munch, J. Am. Pharm. Assoc. <u>30</u> :91, 1941. Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892.	16
125-175		6-13da	Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1928. Ibid Leake, J. Am. Med. Assoc. <u>98</u> :195, 1932. Ibid Anderson, Proc. Soc. Exp. Biol. Med. <u>27</u> :267, 1930.	17

brands may vary.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
17	Acetarsone ¹ (concluded)	Rabbit Rabbit Cat Cat	or iv or or	LD LD MLD LD ₅₀	1500 120 125-150 150
18	Acetic acid	Mouse Rat Rat	or or or	LD ₅₀ LD ₅₀ LD ₅₀	4960 3310 3530
19	Acetic acid butyl ester	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	14, 120 >20 cc
20	Acetic acid isopropyl ester	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	6750 >20 cc
21	Acetic anhydride	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	1780 4000
22	Acetone	Rat Rat Rabbit Rabbit Rabbit	or iv or or iv	LD ₅₀ LD LD LD ₅₀ LD ²	9750 4750-6336 7520 5340 1584
23	Acetone cyanohydrin	Rat	ct	LD ₅₀ [*]	150
24	Acetonitrile ²	Frog Mouse Mouse Rat Rat Guinea pig Rabbit Rabbit Rabbit Monkey Pigeon	sc sc sc or sc sc ct sc sc sc sc im	MLD MLD MLD LD ₅₀ LD LD LD ₅₀ MLD MLD LD LD	9100 600 700 3800 500-3900 180-450 5000 105 130 720-800 4000
25	Acetophenone	Rat Rat Guinea pig Rabbit	or or ct ct	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	900 3000 >20,000 1760
26	Acetophenone-4-methoxy-3-methyl	Mouse Rat	or or	LD ₅₀ LD ₅₀	3.6 cc 1.5 cc
27	o-Acetoxycinnamic acid	Rat	or	LD ₅₀	3150
28	3-Acetoxy-6-dimethylamino-4,4-diphenylheptane	Mouse	sc	LD ₅₀	70
29	3-Acetoxy-6-dimethylamino-4,4-diphenyl-5-methylhexane	Mouse	sc	LD ₅₀	250
30	1-Acetoxy-3-dimethylamino-1,1-diphenyl-2-methylpropane	Mouse	sc	LD ₅₀	350
31	2-(Acetoxy-3,5-dimethylphenyl)-trimethylammonium iodide	Mouse Mouse	or iv	LD ₅₀ LD ₅₀	>1500 3.3±0.15

/1/ Toxicity of different brands may vary. /2/ Toxicity varies with diet of animal.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
125-175		5-20 da	Raiziss, Arch. f. Derm. Syph. 25:799, 1932. Ibid Leake, J. Am. Med. Assoc. 98:195, 1932. Anderson, Proc. Soc. Exp. Biol. Med. 27:267, 1930.	17
4430-5550 3000-3660 3200-3880		36 hr 36 hr	Woodard, J. Ind. Hyg. Tox. 23:78, 1941. Ibid Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	18
11,840-16,650			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	19
6160-7380			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	20
1480-2130 2700-5920			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Smyth, unpublished data, Mellon Inst.	21
9,070-10,480 4790-5950			Smyth, unpublished data, Mellon Inst. Walton, J. Pharm. Exp. Ther. 33:175, 1928. Ibid Smyth, unpublished data, Mellon Inst. Walton, J. Pharm. Exp. Ther. 33:175, 1928.	22
			Sunderman, Arch. Ind. Hyg. Occ. Med. 8:371, 1953.	23
			Rentz, Arch. int. pharmacod. 36:455, 1929. Wiesbader, Endocrinology, 20:100, 1936. Hunt, Arch. int. pharmacod. 12:447, 1904. Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Hunt, Heffter's Hdb. 1.1:812. Ibid Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Rentz, Arch. int. pharmacod. 36:455, 1929. Verbrugge, Arch. int. pharmacod. 5:161, 1899. Hunt, Heffter's Hdb. 1.1:812. Meurice, Arch. int. pharmacod. 7:11, 1900.	24
800-1000 1670-1850			Smyth, unpublished data, Mellon Inst. Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid Smyth, unpublished data, Mellon Inst.	25
			Draize, J. Pharm. Exp. Ther. 93:76, 1948. Ibid	26
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	27
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	28
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	29
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	30
			Randall, J. Pharm. Exp. Ther. 99:16, 1950. Ibid	31

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
32	(3-Acetoxyphenyl)methyldiethyl- ammonium iodide	Mouse	iv	LD ₅₀	8.8±0.9
33	(3-Acetoxyphenyl)trimethyl- ammonium bromide	Mouse	or	LD ₅₀	560.0±56
		Mouse	sc	LD ₅₀	137.0±41
		Mouse	iv	LD ₅₀	12.0±2.2
34	(3-Acetoxyphenyl)trimethyl- ammonium iodide	Mouse	or	LD ₅₀	800
		Mouse	sc	LD ₅₀	125±21
		Mouse	iv	LD ₅₀	3.7±0.4
35	Acetylcholine	Frog	sc	LD	200-230
		Mouse	sc	LD	90-100
		Rabbit	iv	LD	0.15
		Cat	sc	LD	>10
36	Acetylcholine chloride	Mouse	or	LD ₅₀	3000
		Mouse	sc	LD ₅₀	170
		Mouse	iv	LD ₅₀	20
		Rat	or	LD ₅₀	2500
		Rat	sc	LD ₅₀	250
		Rat	iv	LD ₅₀	22
37	α-Acetyldigtoxin	Cat	iv	LD ₅₀	0.5141
38	β-Acetyldigtoxin	Cat	iv	LD ₅₀	0.4763
39	α-Acetyldigoxin	Cat	iv	LD ₅₀	0.4662
40	β-Acetyldigoxin	Cat	iv	LD ₅₀	0.4299
41	Acetylmeadol ¹	Mouse	sc	LL ₅₀ ^a	40
42	α-Acetyloxypropionyl-K-strophanthidin	Rabbit	iv	MLD	0.90
		Cat	iv	MLD	0.45
43	Acetylsalicilic acid	Frog	sc	LD	63(Na salt)
		Mouse	or	LD ₅₀	1100
		Rat	or	LD ₅₀	1500-2000 ²
		Rat	or	LD ₅₀	1360 ³
		Rat	ip	LD ₅₀	500 ⁴
		Rabbit	or	LD ₅₀	1800 ³
		Rabbit	sc	MLD	700
44	Acetyl-K-strophanthidin	Dog	or	LD	2000-4000
		Rabbit	iv	MLD	0.55
45	Acetylanguinin	Cat	iv	MLD	0.15
		Cat	iv	LD ₅₀	0.9097
46	Aconin	Guinea pig	sc	LD	150
		Rabbit	sc	LD	150-160
47	Acolongifloroside E	Cat	iv	LD ₅₀	0.2592

/1/All racemers: L, D, DL. /2/As a 20% suspension in H₂O. /3/In 3% gum tragacanth solution.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950.	32
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950. Ibid Ibid	33
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950. Ibid Ibid	34
		Sev da 8-10 min	Fühner, Arch. exp. Path. Pharm. <u>166:455</u> , 1932. Ibid Hunt, Pub. Health Bull. 73, p18. Trendelenburg, Heffter's Hdb. 1.1:600.	35
		24 hr 24 hr 24 hr Few min 24 hr Few min	Molitor, J. Pharm. Exp. Ther. <u>58:337</u> , 1936. Ibid Ibid Ibid Ibid Ibid	36
0.4343-0.5758	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	37
0.3543-0.6298	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	38
0.3989-0.5521	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	39
0.2994-0.5313	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	40
			Keats, J. Pharm. Exp. Ther. <u>105:210</u> , 1952.	41
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937. Ibid	42
	H ₂ O G traga H ₂ O G traga H ₂ O	1-7 da 24 hr 8-38 hr	Dresser, Arch. ges. Physiol. <u>76:396</u> , 1899. Hart, J. Pharm. Exp. Ther. <u>89:205</u> , 1947. Ichniowski, J. Am. Pharm. Assoc. <u>35:225</u> , 1946. Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950. Ichniowski, J. Am. Pharm. Assoc. <u>35:225</u> , 1946. Hart, J. Pharm. Exp. Ther. <u>89:205</u> , 1947. Elliager, Heffter's Hdb. 1:1005. Davis, Fed. Proc. <u>4:116</u> , 1945.	43
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937. Ibid	44
0.6060-1.159	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	45
			Flury, Abderhalden's Hdb. <u>4.7b:1291</u> . Ibid	46
0.2114-0.2923	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	47

/4/ As 20% suspension in H₂O.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
48	Aconitine (amorphous)	Frog	sc	MLD	0.44
		Rat	sc	MLD	0.175
		Rat	ip	MLD	0.1
49	Aconitine (crystalline)	Frog ¹	sc	LD	0.586
		Frog ²	sc	LD	1.4
		Rat	ip	MLD	0.25
		Guinea pig	sc	LD	0.112-0.123
		Guinea pig	sc	MLD	0.05-0.07
		Rabbit	sc	LD	0.131
		Cat	sc	LD	0.4
		Dog	iv	LD	0.35
		Pigeon	sc	MLD	0.0655
50	Aconitine (Lapp)	Mouse	or	LD ₅₀ ^a	20
		Mouse	ip	LD ₅₀	9.1±0.23
		Mouse	iv	LD ₅₀	6.9±0.22
51	Acridan	Mouse♂	sc	LD ₅₀	3.63±0.21
		Mouse♀	sc	LD ₅₀	4.17±0.24
52	Acridine	Rat	or	LD ₅₀	2140
53	Acridine	Frog	sc	LD	800-1000
		Mouse	sc	LD	250
		Mouse	ip	LD	250
		Guinea pig	sc	LD	250
		Guinea pig	ip	LD	250
		Guinea pig	iv	LD	40
		Rabbit	iv	LD	20
		Rabbit	iv	LD	30
		Cat	iv	LD	7.3
		Dog	iv	LD ₁₀₀	30
54	Acrolein	Mouse	sc	LD ₅₀	30
		Rat	or	LD ₅₀	46
		Rat	sc	LD ₅₀	50
		Guinea pig	sc	LD	4280
		Guinea pig	sc	LD	178
		Rabbit	or	LD ₅₀	7.1
		Rabbit	sc	LD	965
		Rabbit	sc	LD	581
		Rabbit	sc	LD	305
55	Acrylic acid	Rat	or	LD ₅₀	2520
		Rabbit	ct	LD ₅₀	950
56	Acrylonitrile	Mouse	or	LD	>20, <72
		Mouse	ip	LD ₅₀	15
		Rat	or	LD ₅₀	93
		Guinea pig	or	LD ₅₀	50
		Rabbit	ct	LD ₅₀	250
57	Actidione	Rat	or	LD ₅₀	1

¹/1/spring frogs. ²/2/summer frogs.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		108 hr	Benigni, Arch. int. pharmacod. 37:161, 1930. Munch, J. Am. Pharm. Assoc. 18:17, 1929. Ibid	48
	Dil acid	2 hr 24 hr	Flury, Abderhalden's Hdb. 4.7b:1291. Ibid Cunningham, Proc. Soc. Exp. Biol. Med. 26:221, 1928. Flury, Abderhalden's Hdb. 4.7b:1291. Swanson, J. Am. Pharm. Assoc. 12:957, 1923. Flury, Abderhalden's Hdb. 4.7b:1291. Ibid Ibid Ibid	49
			Dybing, Acta pharm. tox. 7:337, 1951. Ibid Ibid	50
		48 hr 48 hr	Beck, Proc. Soc. Exp. Biol. Med. 78:392, 1951. Ibid	51
1540-2990			Smyth, unpublished data, Mellon Inst.	52
		1½ hr	Lenz, Zschr. ges. exp. Med. 12:195, 1921. Flury, Abderhalden's Hdb. 4.7b:1292. Ibid Ibid Ibid Ibid Ibid Heathcote, J. Pharm. Exp. Ther. 38:145, 1930. Tubby, Lancet 196:838, 1919. Heathcote, J. Pharm. Exp. Ther. 38:145, 1930.	53
39-56 3.1-16.7		24 hr 24 hr 34 min 85 min 3 hr 30 min 6 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Skog, Acta pharm. tox. 6:299, 1950. Lewin, Arch. exp. Path. Pharm. 43:351, 1900. Ibid Smyth, unpublished data, Mellon Inst. Lewin, Arch. exp. Path. Pharm. 43:351, 1900. Ibid Ibid	54
2320-2740 670-1300			Smyth, unpublished data, Mellon Inst. Ibid	55
81-106			McOmie, J. Ind. Hyg. Tox. 31:113, 1949. Ibid Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid Smyth, unpublished data, Mellon Inst.	56
		25 hr	Traub, J. Am. Pharm. Assoc. 39:552, 1950.	57

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
58	Adalin	Frog Rabbit Cat Dog Dog	sc or or or sc	LD LD MLD LD LD	1665 500-700 350 450 300
59	Adenine	Mouse Mouse Rat Rat	ip ip or ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	335 340 745 198
60	Adonidin	Frog Rabbit Cat	sc iv iv	LD LD LD	4 5 3-4
61	Agaricic acid	Rabbit	iv	LD	100
62	Agerite (white)	Rat?	ip	LD ₅₀	4500
63	Aldol	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	2180 140
64	Aldrin	Rat ¹ Rat? Rabbit	or or ct	LD ₅₀ LD ₅₀ LD ₅₀ ²	54.2±6.19 56.0±5.28 <150
65	Aleurin	Mouse	ip	LD ₅₀	10
66	Alkylmercuric chloride	Rat	or	LD ₅₀ ²	30
67	Allethrin	Mouse Rat Rat Rabbit Rabbit	or or or or ct	LD ₅₀ LD ₅₀ LD ₅₀ ² LD ₅₀ LD ₅₀	480 920 680 4290 11,200
68	Alloxan	Mouse Mouse Rat Rabbit Dog Dog Sheep Pigeon Duck	ip iv iv rt ¹ iv iv iv iv iv	LD ₅₀ LD ₅₀ LD MLD LD LD LD LD MLD	300-400 200 300 100-250 ² 100 75-100 200 150-200 250 ³
69	Allyl acetate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	130 1100
70	Allyl alcohol	Mouse Rat Rabbit Rabbit Rabbit Rabbit Dog	or or or or ct ct or	LD ₅₀ LD ₅₀ LD LD ₅₀ LD ₅₀ LD LD	139 64 53 ⁴ 52 53 118 ⁴ 43 ⁵

¹/Or by injection into jejunum. ²/As alloxan monohydrate, 15% suspension in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Flury, Abderhalden's Hdb. 4.7b:1292. Ibid Ibid Ibid	58
280-400 300-390 640-860 160-240			Philips, J. Pharm. Exp. Ther. 104:20, 1952. Ibid Ibid Ibid	59
			Lendle, Heffter's Hdb. E.1:78. Ibid Ibid	60
			Flury, Abderhalden's Hdb. 4.7b:1297.	61
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	62
2000-2380 130-160			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	63
			Ball, Arch. Ind. Hyg. Occ. Med. 7:292, 1953. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952.	64
			Rpt. Chemother. Leukemia, So. Res. Inst.	65
			Corley, J. Am. Med. Assoc. 157:237, 1955.	66
			Carpenter, Arch. Ind. Hyg. Occ. Med. 2:420, 1950. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Carpenter, Arch. Ind. Hyg. Occ. Med. 2:420, 1950. Ibid	67
	H ₂ O	48 hr 48 hr Rapid	Waisbren, Proc. Soc. Exp. Biol. Med. 67:154, 1948. Ibid Cabe, C. rend. Soc. biol. 162:1335, 1948. Ruben, Am. J. Clin. Path. 16:257, 1946. Goldner, Endocrinology 33:297, 1943. Ibid Bell, J. Comp. Path. 58:152, 1946. Goldner, Proc. Soc. Exp. Biol. Med. 58:31, 1948. Mirsky, Proc. Soc. Exp. Biol. Med. 59:33, 1945.	68
	H ₂ O	2-3 da 36-48 hr		
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	69
119-158 56-74 47-58 45-63	H ₂ O H ₂ O H ₂ O H ₂ O	9 hr 2 1/2 hr 7 hr	Smyth, unpublished data, Mellon Inst. Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Miesner, Berl. klin. Wochr. 28:819, 1891. Smyth, unpublished data, Mellon Inst. Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Miesner, Berl. klin. Wochr. 28:819, 1891. Atkinson, J. Pharm. Exp. Ther. 25:144, 1925.	70

/3/5% solution. /4/25% solution. /5/1% solution.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
71	Allylarsinic acid	Rat	iv	LD	350 ¹
72	Allyl-bis-(β -chloroethyl)- aminoethylsulfone	Mouse	sc	LD ₅₀	4-6
73	Allylcyclohexylpropionate	Rat	or	LD ₅₀	600
74	Allylglyceryl ether	Mouse	or	LD ₅₀	4200±84
75	3-Allyloxy-1,2-propandiol	Mouse	or	LD ₅₀	4.2cc±0.08
76	Allyltheobromine	Mouse	sc	LD	125
		Mouse	iv	LD	40
		Rabbit	sc	LD	100
		Rabbit	iv	LD	50
77	Aluminum chloride	Rat	or	LD ₅₀	3730
		Rat	sc	LD	7000-8000 ²
78	Aluminum nitrate	Rat	or	LD ₅₀	4280
79	Alypin	Frog	sc	MLD	200-390
		Mouse	sc	MLD	260
		Rat	sc	MLD	200-430
		Rat	iv	MLD	10-15
		Guinea pig	sc	MLD	72
		Guinea pig	ip	MLD	100
		Guinea pig	iv	MLD	15-20
		Rabbit	sc	MLD	96
		Rabbit	iv	MLD	10
		Cat	sc	MLD	60
		Cat	iv	MLD	10
		Dog	sc	MLD	70
80	Amboeside	Cat	iv	LD ₅₀	0.8268
81	Amidrine	Rat	or	LD ₅₀	938
		Rat	im	LD ₅₀	146
		Rat	ip	LD ₅₀	50
82	p-Aminacetophenone	Mouse	ip	LD ₅₀	465±19
83	Aminocridine HCl	Mouse	or	LD ₅₀	78±17
		Mouse	sc	LD ₅₀	95
		Mouse	ip	LD ₅₀	70
84	5-Aminocridine penicillin	Mouse	or	LD ₅₀	227±15.2 ³
		Mouse	or	LD ₅₀	100 ⁴
		Mouse	sc	LD ₅₀	562±58.5 ³
		Mouse	sc	LD ₅₀	256 ⁴
85	6-Amino-2-aminobensothiazole	Mouse	iv	LD ₅₀ ⁴	384
86	p-Aminobenzaldehyde	Mouse	ip	LD ₅₀	912±58
87	2-Aminobenzimidazole	Mouse	iv	LD ₅₀ ⁴	170

/1/5% solution... /2/As a 20% solution in H₂O. /3/ As the base. /4/As the hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O		Ickowitz, Ann. anat. path. <u>12:501</u> , 1935.	71
			Anslow, J. Pharm. Exp. Ther. <u>91:224</u> , 1947.	72
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:82</u> , 1951.	73
			Loeb, Fed. Proc. <u>8:316</u> , 1949.	74
		10 da	Hine, Arch. Ind. Hyg. Occ. Med. <u>2:579</u> , 1950.	75
			Ritz, Arch. int. pharmacod. <u>25:361</u> , 1921.	76
			Ibid	
			Ibid	
2430-5740	H ₂ O	1-3 da	Smyth, unpublished data, Mellon Inst. Underhill, Am. J. Physiol. <u>90:76</u> , 1929.	77
3860-4760			Smyth, unpublished data, Mellon Inst.	78
			Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932.	79
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
0.5294-1.821	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> , 1954.	80
			Semenza, Boll. soc. ital. biol. sper. <u>27:354</u> , 1951.	81
			Ibid	
			Ibid	
			Lanphier, Fed. Proc. <u>6:348</u> , 1947.	82
		72 hr	Brodie, J. Am. Pharm. Assoc. <u>38:498</u> , 1949	83
		72 hr	Ibid	
		72 hr	Ibid	
		72 hr	Brodie, J. Am. Pharm. Assoc. <u>38:498</u> , 1949.	84
		72 hr	Ibid	
		72 hr	Ibid	
		72 hr	Ibid	
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	85
			Lanphier, Fed. Proc. <u>6:348</u> , 1947.	86
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	87

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
88	p-Aminobenzoic acid	Mouse Mouse Rat Rat Rat Rabbit Dog	or iv or or iv or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ * LD ₅₀ LD ₅₀ LD ₅₀	2850±400 4600±210 ¹ 6000 10,000 2760±240 ¹ 1830 1000-3000
89	2-Aminobenzothiazole	Mouse	iv	LD ₅₀	126±4
90	2-Aminobenzoxazole	Mouse	iv	LD ₅₀	238±10
91	(3-p-Aminobenzoxyphenyl)tri- methylammonium bromide	Mouse	iv	LD ₅₀	3.0±0.2
92	3-Amino-9-n-butylcarbazole HCl	Rat	or	LD ₅₀	946
93	2-Aminocarbazole HCl	Rat	or	LD ₅₀	964
94	3-Aminocarbazole HCl	Rat	or	LD ₅₀	1517
95	2-Aminoethanol	Rat ² Rabbit	or ct	LD ₅₀ LD ₅₀	2140 1000
96	2-Aminoethoxyethanol	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	5660 1190
97	2-Amino-3-ethoxy-5,6,7,8- tetrahydrocarbazole HCl	Rat	or	LD ₅₀	810
98	3-Amino-9-ethylcarbazole HCl	Rat	or	LD ₅₀	234
99	Aminoethylethandiamine	Rat Guinea pig	or ct	LD ₅₀ LD ₅₀	3000 1800
100	N-Aminoethylmorpholine	Rat Guinea pig	or ct	LD ₅₀ LD ₅₀	3000 300
101	1-Amino-9-ethyl-5,6,7,8- tetrahydrocarbazole HCl	Rat	or	LD ₅₀	1092
102	3-Amino-9-ethyl-5,6,7,8- tetrahydrocarbazole HCl	Rat	or	LD ₅₀	198
103	3-Amino-5,6,7,8,12,13- hexahydrocarbazole HCl	Rat	or	LD ₅₀	275
104	3-Amino-9-methylcarbazole HCl	Rat	or	LD ₅₀	347
105	2-Amino-6-methylheptane	Mouse Rat Guinea pig Rabbit	ip ip ip ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	59 41.5 39 44
106	DL-2-Amino-1-(p-methylphenyl)propane	Rat Guinea pig Rabbit	or ip ip	LD ₅₀ * LD ₅₀ LD ₅₀	150 20-25 40

/1/As the sodium salt. /2/More toxic for immature than for adult rats.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
1730-1940		Sev hr	Scott, Proc. Soc. Exp. Biol. Med. <u>49:184</u> , 1942.	88
		5-10min	Ibid	
			Ibid	
		5-10min	Robin, Fed. Proc. 6:366, 1947.	
		5-10min	Scott, Proc. Soc. Exp. Biol. Med. <u>49:184</u> , 1942.	
			Cronheim, Fed. Proc. 10:289, 1950.	
		1-2 da	Scott, Proc. Soc. Exp. Biol. Med. <u>49:184</u> , 1942.	
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	89
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	90
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950.	91
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	92
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	93
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	94
1540-2990 620-1620			Smyth, unpublished data, Mellon Inst. Ibid	95
710-2000			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Ibid	96
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	97
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	98
			Smyth, J. Ind. Hyg. Tox. <u>26:269</u> , 1944. Ibid	99
			Smyth, J. Ind. Hyg. Tox. <u>26:269</u> , 1944. Ibid	100
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	101
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	102
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	103
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	104
			Fellows, J. Pharm. Exp. Ther. <u>90:351</u> , 1947 Ibid Ibid Ibid	105
			Fellows, J. Pharm. Exp. Ther. <u>100:72</u> , 1950. Ibid Ibid	106

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
107	2-Amino-9-methyl-5,6,7,8-tetrahydrocarbazole HCl	Rat	or	LD ₅₀	705
108	5-Amino-9-methyl-5,6,7,8-tetrahydrocarbazole HCl	Rat	or	LD ₅₀	229
109	o-Aminophenol	Cat	sc	LD	37
110	p-Aminophenol	Cat	sc	LD	37
111	α-(4-Aminophenyl)-β-methylamino-propane	Rat Rat	or ip	LD ₅₀ LD ₅₀	300 85
112	Azainophylline	Mouse Rat Rabbit	or iv iv	LD ₅₀ MLD LD ₅₀	540±12.9 ¹ 190 150±7.65 ²
113	1-Amino-2-propanol	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	4260 1640
114	p-Aminopropiophenone	Mouse Dog	ip iv	LD ₅₀ LD ₅₀	223±17 7.15±0.89
115	3-Amino-9-propylcarbazole HCl	Rat	or	LD ₅₀	423
116	4-Aminopropylmorpholine	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	5660 1230
117	p-Aminopyridine	Frog Mouse Rabbit Rabbit Dog	sc sc sc iv sc	LD LD LD LD LD	200 50-70 100 20 100
118	Aminopyrine	Frog Mouse Mouse Mouse Mouse Mouse Mouse Rat Rat Rat Rabbit Dog	sc or sc sc iv iv iv or iv ip sc sc	LD LD ₅₀ LD LD ₅₀ MLD LD ₅₀ LD ₅₀ LD ₅₀ MLD LD ₅₀ LD LD ^o	825-1650 1850±0.03 350-360 ³ 350±0.008 150 184±0.004 170 1700 135 248 417 300
119	2-Aminoquinuclidinoldiphenyl-acetate HCl	Mouse	ip	LD ₅₀	178
120	p-Aminosalicylic acid	Mouse Mouse Mouse Mouse Mouse Rat Rabbit	or sc sc ip iv sc or	LD ₅₀ ^o LD ₅₀ LD ₅₀ ^o LD ₅₀ ^o LD ₅₀ ^o LD ₅₀ LD ₅₀	4000 4000-5000 4000 4500 2500 8000-10,000 3650

/1/ 5% solution. /2/ 25% solution. /3/ 1% solution.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	107
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	108
		105 min	Heubner, Arch. exp. Path. Pharm. 72:239, 1913.	109
		30 hr	Heubner, Arch. exp. Path. Pharm. 72:239, 1913.	110
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940. Ibid	111
	H ₂ O	1 wk	Thompson, J. Lab. Clin. Med. 31:1337, 1946.	112
	H ₂ O	1 wk	Chen, J. Pharm. Exp. Ther. 45:1, 1932. Thompson, J. Lab. Clin. Med. 31:1337, 1946.	
3880-4670 1380-1950			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Smyth, unpublished data, Mellon Inst.	113
	G traga		Langhler, Fed. Proc. 6:348, 1947. Rose, J. Pharm. Exp. Ther. 89:109, 1947.	114
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	115
440-1630			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	116
			Petini, Chem. Zbl. 893, 1914. Bierweg, Dissert., Kiel 1932. Ibid Ibid Ibid	117
	H ₂ O	30 min 48 hr 24 hr	Filehne, Zentr. klin. Med. 32:569, 1897. Koch, Med. Klin. Berl. 45:661, 1950. Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Koch, Med. Klin. Berl. 45:661, 1950. Rose, Proc. Soc. Exp. Biol. Med. 32:1242, 1935. Koch, Med. Klin. Berl. 45:661, 1950. Hasleton, J. Pharm. Exp. Ther. 109:387, 1953. Hart, J. Pharm. Exp. Ther. 89:205, 1947. Rose, Proc. Soc. Exp. Biol. Med. 32:1242, 1935. Hasleton, J. Pharm. Exp. Ther. 109:387, 1953. Filehne, Zentr. klin. Med. 32:569, 1897. Biberfeld, Zentr. exp. Path. 5:28, 1908.	118
			Randall, J. Pharm. Exp. Ther. 104:284, 1952.	119
3350-3980			Bavin, Brit. J. Pharm. 1:790, 1949. Goebel, Therap. Umschau 7:151, 1951. Bavin, Brit. J. Pharm. 1:790, 1949. Ibid Ibid Goebel, Therap. Umschau 7:151, 1951. Cronheim, Fed. Proc. 10:289, 1951.	120

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
121	1-Amino-5,6,7,8-tetrahydrocarbazole HCl	Rat	or	LD ₅₀	1375
122	2-Amino-5,6,7,8-tetrahydrocarbazole HCl	Rat	or	LD ₅₀	290
123	3-Amino-5,6,7,8-tetrahydrocarbazole HCl	Rat	or	LD ₅₀	374
124	Aminothiazole	Rat Guinea pig Rabbit Rabbit Cat	or or or or or	LD ₅₀ LD* LD ₅₀ LD ₅₀ MLD*	480 ¹ 120 ² 375 ³ 490 ⁴ 120 ³
125	Ammonia	Frog Mouse Mouse Rabbit Rabbit Rabbit Cat	sc sc sc sc iv iv or	LD LD LD LD LD LD LD	2500 160 500 200 3-50 80-100 250
126	Ammonium acetate	Mouse	iv	LD ₅₀	97.5
127	Ammonium chloride	Mouse Rat Guinea pig	sc im iv	LD LD ₅₀ LD	500 30 240-245 ⁶
128	Ammonium dichromate	Guinea pig	sc	LD	25-35
129	Ammonium fluoride	Frog Guinea pig Guinea pig	sc or sc	LD LD LD	250 150 250
130	Ammonium heptachloroarsinate	Rabbit Rabbit Rabbit Rabbit	sc sc iv iv	LD LD LD LD	200 1000 100 200
131	Ammonium mandelate	Rat	or	MLD	5000
132	Ammonium molybdate	Rat Guinea pig Guinea pig Guinea pig Rabbit Rabbit Cat	ip or sc ip or sc or	MLD LD LD LD ₁₀₀ LD LD LD	203 2200 1380 800 1870 1600 >1600-3200
133	Ammonium persulfate	Rat	or	LD ₅₀	820
134	Ammonium salicylate	Mouse Rat	sc sc	LD ₅₀ LD ₅₀	550 600
135	Ammonium silicofluoride	Frog Guinea pig Guinea pig	sc or sc	LD LD LD	200 150 270
136	Ammonium sulfamate	Rat Rat Rat	or or ip	LD LD ₅₀ * MLD	>1600 3900 800

/1/5% suspension in milk. /2/10% suspension in milk. /3/20% suspension in milk. /4/ 20% New York: S. Karger, 1948. /6/ 1-2% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	121
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	122
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	123
	Milk	8-16 hr	Deichmann, J. Ind. Hyg. Tox. 30:71, 1948.	124
	Milk	26 hr	Ibid	
	Milk	10-12 hr	Ibid	
	Oil	10-72 hr	Ibid	
	Milk	12 hr	Ibid	
			Bovet & Bovet-Nitti ⁵ p 678. Trendelenburg, Heffter's Hdb. 1:470. Bovet & Bovet-Nitti ⁵ p 688 Trendelenburg, Heffter's Hdb. 1:470. Flury, Abderhalden's Hdb. 4.7b:1300. Bovet & Bovet-Nitti ⁵ p 688. Harnack, Arch. int. pharmacod. 12:185, 1904.	125
			Welch, J. Lab. Clin. Med. 29:809, 1944.	126
	H ₂ O		Fromanek, Arch. d. Hyg. 38:1, 1900. Boyd, Exp. Med. Surg. 4:223, 1946. Amberg, J. Pharm. Exp. Ther. 6:595, 1915.	127
			Flury, Abderhalden's Hdb. 4.7b:1330.	128
			Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Ibid	129
		23 hr 2 hr 48 hr 2 1/2 hr	Testoni, Clin. med. ital. 57:383, 428, 1926. Ibid Ibid Ibid	130
			Meier, Arch. int. pharmacod. 64:79, 1940.	131
			Franko, J. Pharm. Exp. Ther. 58:454, 1936. Pulewka, Heffter's Hdb. 3.4:2231. Ibid Fairhall, Pub. Health Bull. 293, 1945. Pulewka, Heffter's Hdb. 3.4:2231. Ibid Ibid	132
530-1260			Smyth, unpublished data, Mellon Inst.	133
			Johnson, J. Pharm. Exp. Ther. 36:319, 1929. Ibid	134
			Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Ibid	135
		45 min	Ambrose, J. Ind. Hyg. Tox. 25:26, 1943. Lehman, Q. Bu. Assoc. F. & D. Off. 15:122, 1951. Ambrose, J. Ind. Hyg. Tox. 25:26, 1943.	136

solution in oil. /5/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif,"

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
137	Amyl alcohol	Mouse	sc	LD	10,600
		Mouse	ip	LD ¹	610
		Rat	ip	LD	492
		Rabbit	or	LD	1600-1950
		Cat	iv	LD	123
		Dog	or	LD	1390-1560
138	Amyl alcohol (tert.)	Rat	or	LD ₅₀	1000
		Rat	sc	LD	1400
		Rat	sc	MLD	1650
		Rat	ip	MLD	1350
		Rat	rt	LD	1220
		Rat	rt	LD	1500
		Rabbit	sc	LD	1500
		Cat	sc	LD	1000
		Dog	sc	LD	1500
139	2-n-Amylbenzimidazole	Mouse	iv	LD ₅₀ *	20
140	N, N-Amylbenzylcyclohexylamine	Rat	or	LD ₅₀ *	3000
		Rat	sc	LD ₅₀ *	5000
		Rat	ct	LD ₅₀ *	12,000
		Rabbit	or	MLD*	3000
141	Amyl-2-furylcarbamate (tert.)	Rat	or	LD ₅₀	190
142	Amyloxaspirane (iso-)	Mouse	ip	LD ₅₀	688±51.6
143	2-Amylphenoxyethylbenzyl-β-chloroethylamine	Mouse	sc	LD ₅₀	>1000
144	2-Amylphenoxyethylethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	100
145	n-Amyltrimethylammonium iodide	Mouse	sc	LD ₅₀	25.1±8.1
		Mouse	ip	LD ₅₀	18
146	Amytal	Frog	sc	MLD	110
		Frog	iv	MLD	200
		Mouse	sc	MLD	280
		Mouse	ip	LD	200-210
		Mouse	ip	LD	200±19
		Mouse	ip	MLD	280
		Mouse	iv	MLD	135
		Rat	or	MLD	400
		Rat	sc	LD	190
		Rat	sc	MLD	230
		Rat	ip	LD ₅₀	115
		Rat	ip	LD	180
		Rat	iv	MLD	90
		Guinea pig	sc	MLD	170
		Guinea pig	ip	MLD	120
		Guinea pig	iv	MLD	80
		Rabbit	or	LD ₅₀	575
	(continued on next page)	Rabbit	sc	MLD	150

¹/LD varies for different isomers.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Starrek, Dissert., Würzburg 1938 Haggard, J. Ind. Hyg. Tox. 27: 1, 1945. Lendle, Arch. exp. Path. Pharm. 132:214, 1928. Sollman & Hanzlik, "Exp. Pharmacol." 1928. Macht, J. Pharm. Exp. Ther. 16:1, 1921. Dujardin, C. rend. Acad. sc. 81:192, 1875.	137
		7-14 hr Sev hr Sev hr	Schaffarzick, Science 116:663, 1952. Barlow, Arch. Surg. 26:689, 1933. Lendle, Arch. exp. Path. Pharm. 160:74, 1931. Ibid Barlow, Arch. Surg. 26:689, 1933. Lendle, Arch. exp. Path. Pharm. 160:74, 1931. Kochmann, Heffter's Hdb. 1:428. Ibid Ibid	138
			Domino, J. Pharm. Exp. Ther. 105:486, 1952.	139
		20-24 hr 3-20 hr 20 hr 3 hr	Deichmann, J. Ind. Hyg. Tox. 22:484, 1940. Ibid Ibid Ibid	140
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	141
			Berger, Arch. int. pharmacod. 85:474, 1951.	142
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	143
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	144
		2 hr	Edwards, J. Pharm. Exp. Ther. 103:196, 1951. Alles, Univ. Cal. Publ. Pharmacol. 1:187, 1939.	145
			Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Ibid Ibid Holck, J. Lab. Clin. Med. 19:1191, 1934. Way, J. Pharm. Exp. Ther. 87:265, 1946. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Ibid Ibid Vogt, Arch. exp. Path. Pharm. 152:341, 1930. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Holck, J. Lab. Clin. Med. 19:1191, 1934. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Ibid Ibid Ibid Ibid Maloney, J. Pharm. Exp. Ther. 42:267, 1931. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937.	146

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
146 Amytal (concluded)	Rabbit	ip	MLD	90
	Rabbit	ip	MLD	120
	Rabbit	iv	LD ₅₀	75 (Na salt)
	Cat	or	LD ₅₀	110
	Cat	ip	MLD	120
	Cat	iv	LD	54
	Cat	iv	MLD	75
	Dog	or	LD	112
	Dog	or	LD	125
	Dog	iv	LD	54-68
	Dog	rt	LD	180
	Dog	rt	LD	200
147 Anabesine	Guinea pig	sc	LD ₁₀₀	22
	Rabbit	iv	MLD	3
148 Anemonin	Mouse	ip	LD ₅₀	150
149 α-Angelica lactone	Mouse	ip	LD ₅₀	>3000
150 β-Angelica lactone	Mouse	ip	LD ₅₀	750
151 16-Anhydrodigitalinum verum monoacetate	Cat	iv	LD ₅₀	5.936
152 5-Anhydroperiplogenone	Cat	iv	LD ₅₀	1.338
153 Aniline	Guinea pig	or	LD	2500
	Guinea pig	sc	LD	1000-1500
	Guinea pig	ct	LD ₅₀	1060 ¹
	Rabbit	sc	LD*	500
	Cat	or	LD	100-200
	Dog	or	LD	500
	Dog	sc	LD	100
	Dog	ct	LD	2.5 cc
154 Anilinoethanol	Mouse	ip	LD ₅₀ *	220
	Rabbit	iv ²	MLD	44
	Dog	sc	MLD	2220
	Dog	iv	MLD	165
155 2-Anilinoethanol	Rat	or	LD ₅₀	2230
156 Anisole	Rat	sc	LD	3500-4000
	Rat	ip	LD	100-900
157 Anisylidene-strophanthidin	Cat	iv	LD ₅₀	1.927
158 Antabuse	Rat	or	LD ₅₀	8600±170
	Rabbit	or	LD ₅₀	1800±130
	Rabbit	or	LD ₅₀	2050
	Dog	or	LD*	3500
159 Antergan	Mouse	sc	LD ₅₀	175
	Mouse	iv	LD ₅₀	40
	Rat	or	LD ₅₀	300
	Rat	sc	LD ₅₀	175
	Rat	sc	LD ₅₀	150
	Guinea pig	sc	LD ₅₀	110

/1/As a 10% solution. /2/Slow injection.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Fitch, J. Pharm. Exp. Ther. 42:266, 1931. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Gruber, J. Pharm. Exp. Ther. 86:180, 1946. Holck, J. Lab. Clin. Med. 19:1191, 1934. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Holck, J. Lab. Clin. Med. 19:1191, 1934. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Holck, J. Lab. Clin. Med. 19:1191, 1934. Swanson, J. Am. Pharm. Assoc. 26:1248, 1937. Holck, J. Lab. Clin. Med. 19:1191, 1934. Ibid Swanson, J. Am. Pharm. Assoc. 26:1248, 1937.	146
			Haag, J. Pharm. Exp. Ther. 48:95, 1933. Ibid	147
			Brodersen, Acta pharm. tox. 2:109, 1946.	148
			Brodersen, Acta pharm. tox. 2:109, 1946.	149
			Brodersen, Acta pharm. tox. 2:109, 1946.	150
4.518-6.999	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	151
0.9757-1.6194	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	152
950-1310	Alcohol	24 hr	Falkenburg, Dissert., Marburg 1890. Ibid Smyth, J. Ind. Hyg. Tox. 27:93, 1945. Kunkel, Toxikologie 2:604, 1901. Von Engelhardt, Dissert., Dorpat 1888. Falkenburg, Dissert., Marburg 1890. Ibid Summ. Rpt. Med. Div. Army Chem. Ctr. Md., June 1939.	153
	Dil alc	6 hr 3 da 12 hr	Bass, J. Am. Med. Assoc. 123:761, 1943. Ibid Ibid Ibid	154
2010-2470			Smyth, unpublished data, Mellon Inst.	155
			Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid	156
1.780-2.225	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	157
			Child, J. Pharm. Exp. Ther. 98:5, 1950. Ibid Brieger, Proc. 9th Int. Congr. Ind. Med., Lond. 1948. Child, J. Pharm. Exp. Ther. 98:5, 1950.	158
		48 hr	Loew, Physiol. Rev. 27:542, 1947. Ibid Ibid Ibid Halpern, C. rend. Soc. biol. 144:887, 1950. Loew, Physiol. Rev. 27:542, 1947.	159

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
160	Antiarin	Frog Rabbit	sc iv	LD LD	0.16 1
161	Antimony ¹	Rat Guinea pig	ip ip	LD ₅₀ LD ₅₀	100 150
162	Antimony pentasulfide	Rat	ip	LD ₅₀	1500
163	Antimony peroxide	Rat	ip	LD ₅₀	4000
164	Antimony potassium tartrate	Frog Mouse Mouse Mouse Mouse Rat Rat Rat Guinea pig Guinea pig Rabbit Rabbit Rabbit	or or ip iv iv im ip iv im ip or or iv	LD LD LD LD LD LD ₅₀ MLD LD LD ₅₀ LD LD ₅₀ LD LD	110 599-666 52 42 16 33 11 50 55 15 50-65 115-120 10-20
165	α-Antimony potassium tartrate	Mouse	ip	LD ₅₀	48.8
166	β-Antimony potassium tartrate	Mouse	ip	LD ₅₀	48.8
167	γ-Antimony potassium tartrate	Mouse	ip	LD ₅₀	51
168	meso-Antimony potassium tartrate	Mouse	ip	LD ₅₀	51
169	Antimony sodium tartrate	Mouse	iv	LD	25
170	Antimony trioxide	Rat Rat	or ip	LD ₅₀ LD ₅₀	>20,000 3250
171	Antimony trisulfide	Rat	ip	LD	1000
172	Antimosen	Mouse Mouse Mouse Mouse Rat Fat	or sc ip ip sc ip	LD LD ₁₀₀ LD LD ₁₀₀ LD ₇₅ LD	500 500 400 600 500 1000
173	Antipyrine	Frog Mouse Rat Guinea pig Guinea pig Rabbit Rabbit Cat Dog	sc sc or or sc sc iv sc or	LD LD LD ₅₀ LD LD LD LD LD LD	2000-4000 1000 1800 1400 1000 1000-1500 600-800 700 500-1000

¹/As the element.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Lendle, Heffter's Hdb. <u>E. 1:78.</u> Ibid	160
			Bradley, Indust. Med. <u>2:15, 1941.</u> Ibid	161
			Bradley, Indust. Med. <u>2:15, 1941.</u>	162
			Bradley, Indust. Med. <u>2:15, 1941.</u>	163
			Wieland, Heffter's Hdb. <u>E. 1:564.</u> Rosenthal, Arch. exp. Path. Pharm. <u>68:275, 1912.</u> Wieland, Heffter's Hdb. <u>E. 1:564.</u> Ibid Ibid Ibid Bradley, Indust. Med. <u>2:15, 1941.</u> Wieland, Heffter's Hdb. <u>E. 1:564.</u> Ibid Bradley, Indust. Med. <u>2:15, 1941.</u> Wieland, Heffter's Hdb. <u>E. 1:564.</u> Oelkers, Arch. exp. Path. Pharm. <u>187:56, 1937.</u> Michiels, Arch. int. pharmacod. <u>25:217, 1921.</u>	164
		8 da		
		24-36hr		
		24 hr	Haskins, Am. J. Trop. Med. <u>30:591, 1950.</u>	165
		24 hr	Haskins, Am. J. Trop. Med. <u>30:591, 1950.</u>	166
		24 hr	Haskins, Am. J. Trop. Med. <u>30:591, 1950.</u>	167
		24 hr	Haskins, Am. J. Trop. Med. <u>30:591, 1950.</u>	168
		8 da	Wieland, Heffter's Hdb. <u>3.1:564.</u>	169
			Smyth, J. Ind. Hyg. Tox. <u>30:63, 1948.</u> Bradley, Indust. Med. <u>2:15, 1941.</u>	170
			Bradley, Indust. Med. <u>2:15, 1941.</u>	171
			Schmidt, Arch. Schiffs Tropenhyg. <u>35:70, 1931.</u> Bock, Zschr. Hyg. <u>107:396, 1927.</u> Schmidt, Arch. Schiffs Tropenhyg. <u>35:70, 1931.</u> Bock, Zschr. Hyg. <u>107:396, 1927.</u> Ibid Ibid	172
			Flury, Abderhalden's Hdb. <u>4.7b:1304.</u> Ibid Hart, J. Pharm. Exp. Ther. <u>89:205, 1947.</u> Flury, Abderhalden's Hdb. <u>4.7b:1304.</u> Ibid Ibid Ibid Ibid Ibid	173

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
174	Antistine	Rat Dog	sc iv	LD ₁₀₀ LD ₅₀	500 30
175	ANTU	Mouse Mouse Rat ¹ Rat ¹ Rat ¹ Rat ³ Rat Guinea pig Cat Dog Dog Chicken	or ip or ip ip or or or or or ip or	MLD LD LD ₁₀₀ LD ₅₀ * LD LD ₅₀ LD ₁₀₀ MLD MLD MLD LD MLD	120 50 100 6.5 2.5-5.9 6.7±0.3 10 100 150 500 15 1000
176	Apiol	Mouse Guinea pig Dog	sc ip iv	LD LD LD*	1000 500 500
177	Apontropine	Mouse Mouse	or ip	LD ₅₀ LD ₅₀	160 14.1
178	Apontropine methylbromide	Mouse	ip	LD ₅₀	0.76
179	Apomorphine	Dog	iv	LD	60-100
180	Apothesine	Mouse Mouse Rat Guinea pig Rabbit Cat Cat	sc ip iv sc iv sc iv	MLD LD MLD MLD MLD LD LD	700 700 20 ⁴ 250 38-42 >800 20
181	Arabinose	Dog	iv	LD	5000
182	Aramine	Mouse Mouse Rat Rat	or iv or ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	99 39 240 41
183	Aramite	Rat	or	LD ₅₀ *	6300
184	Arasan	Rat Rabbit Rabbit	or or or	LD ₅₀ * LD ₅₀ LD ₅₀	865 210 350
185	Arecoline	Mouse Guinea pig Dog	sc im sc?	LD MLD LD	100 6 5
186	Arsacetin	Rabbit	iv	LD	550
187	Arsenic pentoxide	Rabbit Rabbit	iv iv	LD LD	6 ⁵ 10 ⁵

/1/Albino rat. /2/Anhydrous. /3/Norway rat. /4/2% solution in H₂O. /5/As sodium salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		48 hr	Halpern, C. rend. Soc. biol. 144:887, 1950. Stroudemayer, Fed. Proc. 10:338, 1951.	174
	G acacia Prop gly ² Prop gly	18-25 hr 16-30 hr 48 hr	Brion, Arch. int. pharmacod. 80:301, 1949. Latta, Bull. Johns Hopkins Hosp. 80:181, 1947. McClosky, Pub. Health Rpt. 60:1101, 1945. Byerrum, Proc. Soc. Exp. Biol. Med. 62:328, 1946. Meyer, J. Pharm. Exp. Ther. 92:15, 1948. Dieke, Pub. Health Rpt. 61:672, 1946. Brion, Arch. int. pharmacod. 80:301, 1949. Ibid Ibid Ibid Latta, Bull. Johns Hopkins Hosp. 80:181, 1947. Brion, Arch. int. pharmacod. 80:301, 1949.	175
			Marri, Boll. soc. ital. biol. sper. 14:291, 1939. Lutz, Bull. sc. pharm. 16:315, 1909. Ibid 17:7, 1910.	176
115.1-222.4 11.4-17.5			Krantz, Proc. Soc. Exp. Biol. Med. 36:511, 1954. Ibid	177
0.42-1.36			Krantz, Proc. Soc. Exp. Biol. Med. 86:511, 1954.	178
			Flury, Abderhalden's Hdb. 4.7b:1305.	179
	H ₂ O		Hamilton, J. Lab. Clin. Med. 11:1082, 1926. Ibid Hooper, Am. J. Physiol. 68:120, 1924. Hamilton J. Lab. Clin. Med. 11:1082, 1926. Hirschfelder, Physiol. Rev. 12:262, 1932. Hamilton, J. Lab. Clin. Med. 11:1082, 1926. Hooper, Am. J. Physiol. 68:120, 1924.	180
		24 hr	Flury, Abderhalden's Hdb. 4.7b:1422.	181
			Peck, Proc. Pharm. Soc. Fall Meet. p63, 1951. Ibid Ibid Ibid	182
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	183
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Brieger, Proc. 9th Int. Congr. Ind. Med., Lond. 1948. Hanzlik, J. Pharm. Exp. Ther. 17:343, 1921.	184
			Flury, Abderhalden's Hdb. 4.7b:1306. Stephansson, Arch. exp. Path. Pharm. 185:249, 1937. Flury, Abderhalden's Hdb. 4.7b:1306.	185
		15 da	Gros, Biochem. Zschr. 184:360, 1927.	186
		3 da 5-8 h-	Joachimoglu, Biochem. Zschr. 70:144, 1915. Ibid	187

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
188 Arsenic trioxide	Mouse	sc	LD	11-13
	Rat ¹	sc	LD	8
	Rat ²	or	LD ₅₀	138±13
	Guinea pig	or	LD	20-39 ³
	Guinea pig	sc	LD	13
	Guinea pig	ip	LD	16
	Rabbit	or	LD	14-30 ³
	Rabbit	sc	LD	7-10
	Rabbit	iv	LD	6
	Cat	sc	LD	4.7
	Dog	or	LD	30-70
	Dog	sc	LD	6
	Dog	iv	LD	3-5
	Chicken	or	LD	60-150
	Chicken	sc	LD	15
189 Arsine	Mouse	ip	LD ₅₀ *	3
	Rabbit	ip	LD ₅₀ *	2.5
	Cat	ip	LD ₅₀ *	2.0-2.5
	Sheep	ip	LD ₅₀ *	3
190 Arsphenamine	Mouse	iv	LD	91-100
	Rat	iv	LD ₁₀₀	60 ⁴
	Rat	iv	LD ₁₀₀	140 ⁵
	Rabbit	iv	LD	200-300
	Dog	iv	LD	50-100
191 ASP-47	Rat	or	LD ₅₀ *	5
192 Atabrine	Rooster	or	LD	714
193 Atoxyl	Mouse	sc	LD	300-500
	Rat	sc	LD	75
	Rat	sc	LD	100
	Rabbit	sc	LD	200-400
	Rabbit	iv	LD	200
	Dog	sc	LD	5
	Dog	sc	LD	20
194 Atropine ⁶	Frog	sc	LD	1000-2500
	Mouse	or	LD ₅₀	794.5±52.9
	Mouse	or	LD ₅₀	400
	Mouse	or	LD	1500-1800
	Mouse	sc	LD ₅₀	750
	Mouse	sc	LD ₅₀	900
	Mouse	sc	LD ₅₀	900
	Mouse	sc	LD ₅₀	400
	Mouse	iv	LD ₅₀	90.85±7.95
	Mouse	ip	LD ₅₀	250
	Rat	or	LD	1000
	Rat	or	LD ₅₀	750
	Rat	sc	LD ₅₀	2000
	Rat	sc	LD	750
	Rat	ip	LD ₅₀	280
	Rat	ip	LD	600

(continued on next page)

/1/Albino rat. /2/Norway rat. /3/As sodium salt. /4/Old. /5/Freshly prepared. /6/

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		6-72 hr	Heffter, Heffter's Hdb. 3.1:479. Hammet, J. Pharm. Exp. Ther. 19:337, 1922. Dieke, Pub. Health Rpt. 61:672, 1946. Bonsmann, Klin. Wschr. 304:1942. Cannava, Arch. sc. biol. Bologna 24:442, 1938. Heffter, Heffter's Hdb. 3.1:479. Ibid Ibid Ibid Joachimoglu, Biochem. Zschr. 70:144, 1915. Heffter, Heffter's Hdb. 3.1:479. Ibid Ibid Ibid Ibid Ibid	188
		7-20 hr		
			Levy, Brit. J. Pharm. 1:287, 1946. Ibid Ibid Ibid	189
		48 hr 48 hr	Flury, Abderhalden's Hdb. 4.7b:1308. Shamberg, Am. J. Syph. Neurol. 18:37, 1934. Ibid Heffter, Heffter's Hdb. 3.1:532. Ibid	190
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	191
		3 da	Kohlschütter, Arch. exp. Path. Pharm. 201:402, 1943.	192
	H ₂ O H ₂ O	36 hr 12 hr 6 da	Flury, Abderhalden's Hdb. 4.7b:1310. Gros, Biochem. Zschr. 184:360, 1927. Ibid Flury, Abderhalden's Hdb. 4.7b:1310. Ibid Ibid Ibid	193
330-480 700-1150 190-330 620-900 1800-2200 225-350		2 hr* 22 hr 10 min	Clark, J. Exp. Physiol. 5:385, 1912. Casort, J. Pharm. Exp. Ther. 100:325, 1950. Cahen, J. Pharm. Exp. Ther. 105:166, 1952. Flury, Abderhalden's Hdb. 4.7b:1311. Ing, J. Pharm. Exp. Ther. 85:85, 1945. Cahen, J. Pharm. Exp. Ther. 105:166, 1952. Mollitor, J. Pharm. Exp. Ther. 56:85, 1936. Willberg, Biochem. Zschr. 66:389, 1914. Casort, J. Pharm. Exp. Ther. 100:325, 1950. Cahen, J. Pharm. Exp. Ther. 105:166, 1952. Flury, Abderhalden's Hdb. 4.7b:1311. Cahen, J. Pharm. Exp. Ther. 105:166, 1952. Ibid Willberg, Biochem. Zschr. 66:389, 1914. Cahen, J. Pharm. Exp. Ther. 105:166, 1952. Willberg, Biochem. Zschr. 66:389, 1914.	194

As atropine sulfate.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
194	Atropine ¹ (concluded)	Guinea pig	or	LD ₅₀	1100
		Guinea pig	sc	LD	400-500
		Guinea pig	ip	LD	400
		Guinea pig	ip	LD ₅₀	400
		Rabbit	or	LD	1400-1500
		Rabbit	sc	LD	250-500
		Rabbit	sc	LD	650-700
		Rabbit	iv	LD	68-74
		Cat	sc	LD	130-150
		Cat	iv	MLD	30
		Dog	sc	LD	200-250
		Dog	iv	LD	100
		Dog	ip	LD	175
		Pigeon	sc	LD	210-230
195	Aureomycin ²	Mouse	iv	LD ₅₀	134
		Rat	iv	LD ₅₀	118
196	Auric chloride	Frog	sc	LD	10
		Mouse	sc	LD	1000-2000
		Rabbit	sc	LD	90
		Rabbit	iv	LD	15
		Cat	iv	LD	15.4
197	Aurin tricarboxylic acid	Mouse	iv	LD ₅₀	8-10
198	Aurous chloride (sodium)	Rabbit	iv	LD	10
199	Avacan	Mouse	or	LD ₅₀	760
		Mouse	sc	LD ₅₀	360
		Mouse	iv	LD ₅₀	40.0
200	Avertin	Mouse	sc	LD	500
		Mouse	ip	LD	600
		Rat	or	LD	1000 ³
		Rat	sc	LD	730 ⁴
		Rat	sc	LD	530-600
		Rat	ip	LD	550
		Rat	rt	LD	660-730 ⁵
		Rat	rt	LD	660
		Rabbit	or	LD	2000
		Rabbit	ip	LD	300-500
		Rabbit	iv	LD	120-150
		Rabbit	rt	LD	550
		Cat	or	LD	150
201	Avertin fluid ⁶	Rabbit	or	LD	1100
		Rabbit	sc	LD	1400
		Rabbit	rt	LD	700
		Rabbit	rt	LD	1375
202	Azabicyclononanol diphenylacetate HCl	Mouse	ip	LD ₅₀	126
203	Azabicyclooctanol diphenylacetate HCl	Mouse	ip	LD ₅₀	105
		Mouse	iv	LD ₅₀	33
		Dog	iv	LD ₅₀	30

/1/As atropine sulfate. /2/Aureomycin A-377. /3/As 3% solution. /4/As 2.5-3% solution

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
1000-1200			Cahen, J. Pharm. Exp. Ther. 105:166, 1952.	194
360-440			Willberg, Biochem. Zschr. 66:389, 1914.	
			Ibid	
			Cahen, J. Pharm. Exp. Ther. 105:166, 1952.	
			Fickewirth, Biochem. Zschr. 40:36, 1912.	
			Willberg, Biochem. Zschr. 66:389, 1914.	
			Fickewirth, Biochem. Zschr. 40:36, 1912.	
			Ibid	
			Willberg, Biochem. Zschr. 66:389, 1914.	
			Flury, Abderhalden's Hdb. 4.7b:1311.	
			Willberg, Biochem. Zschr. 66:389, 1914.	
		3½-12 hr 28 min	Ibid	
			Ibid	
			Ibid	
			Harned, Ann. N. Y. Acad. Sci. 51:182, 1948.	195
			Ibid	
			Schlossmann, Heffter's Hdb. 3.3:2134.	196
		Few da	Ibid	
			Ibid	
		Few min	Ibid	
		25 min	Ibid	
			White, J. Phar. Exp. Ther. 102:88, 1951.	197
			Schlossmann, Heffter's Hdb. 3.3:2134.	198
			Brock, Deut. med. Wschr. 76:479, 1951.	199
			Ibid	
			Ibid	
	H ₂ O		Kochmann, Heffter's Hdb. E.2:130.	200
	H ₂ O		Ibid	
		0.8-2 hr	Burtner, J. Pharm. Exp. Ther. 63:183, 1938.	
			Barlow, Arch. Surg. 26:689, 1933.	
			Gros, Arch. exp. Path. Pharm. 182:348, 1936.	
			Lendle, Arch. exp. Path. Pharm. 160:74, 1931.	
	H ₂ O	0.8-1.5 hr	Barlow, Arch. Surg. 26:689, 1933.	
			Lendle, Arch. exp. Path. Pharm. 160:74, 1931.	
			Flury, Abderhalden's Hdb. 4.7b:1312.	
			Kochmann, Heffter's Hdb. E.2:130.	
			Ibid	
			Ibid	
			Ibid	
		23-40 min	Lendle, Arch. exp. Path. Pharm. 132:214, 1928.	201
		1.3-36 hr	Barlow, Arch. Surg. 26:689, 1933.	
		5-7 min	Lendle, Arch. exp. Path. Pharm. 132:214, 1928.	
		1-2 hr	Barlow, Arch. Surg. 26:689, 1933.	
			Randall, J. Pharm. Exp. Ther. 104:284, 1952.	202
			Randall, J. Pharm. Exp. Ther. 104:284, 1952.	203
			Ibid	
			Ibid	

of crystalline avertin. /5/Solution of crystalline avertin. /6/See The Merck Index.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
204	Azabicyclooctanol-9-fluorene-carboxylate HCl	Mouse	ip	LD ₅₀	137
		Mouse	iv	LD ₅₀	23
205	Azabicyclooctanolmethylbromide-diphenyl acetate	Mouse	ip	LD ₅₀	46
		Mouse	iv	LD ₅₀	4
206	Azoxybenzene	Rat	or	LD ₅₀	620
		Rabbit	ct	LD ₅₀	1.09 cc
207	Bacitracin	Mouse	or	LD ₅₀	510,000 ¹
		Rabbit	or	LD ₅₀	>200,000 ¹
208	Bacitracin A	Mouse	ip	LD	263-342
209	Bacitracin B	Mouse	ip	LD	385-500
210	Bacitracin C	Mouse	ip	LD	75-150
211	BAL	Rat	sc	LD ₅₀	100
		Rat	sc	LD ₅₀	110
		Rat	im	LD ₅₀	105
		Rat	ip	LD ₅₀ ⁺	140
		Cat	iv	LD	0.03 cc
212	Banthine bromide	Mouse	or	LD ₅₀	460±69
		Mouse	ip	LD ₅₀	76±17
		Rat	or	LD ₅₀	1660±230
		Dog	iv	LD	9.5-38.0
213	Banthine chloride	Mouse	or	LD ₅₀	333±28
		Mouse	ip	LD ₅₀	46±6
		Rat	or	LD ₅₀	1360±130
214	Barbital	Frog	sc	LD	1000
		Frog	sc	LD	1500
		Mouse	or	LD	600
		Mouse	sc	LD	280-400
		Mouse	ip	LD	500-550
		Mouse	ip	LD	620±30
		Mouse	ip	LD ₅₀	763
		Mouse	iv	LD	440
		Rat	sc	LD	310-350
		Rat	sc	LD	450
		Rat	ip	LD	300
		Rabbit	or	LD	250
		Rabbit	or	LD	275
		Rabbit	sc	LD	300-400
		Rabbit	ip	LD	225
		Rabbit	ip	LD ₆₀	425
		Rabbit	iv	LD	350
		Cat	or	LD	250-300
		Cat	sc	LD	300
		Dog	or	LD	200-500

¹/Units per kilogram ±94,000 units.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Randall, J. Pharm. Exp. Ther. <u>104:284</u> , 1952. Ibid	204
			Randall, J. Pharm. Exp. Ther. <u>104:284</u> , 1952. Ibid	205
470-810 0.59-2.01 cc			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	206
			Payne, Antibiotics <u>1:387</u> , 1951. Ibid	207
			Newton, Brit. J. Pharm. <u>6:417</u> , 1951.	208
			Newton, Brit. J. Pharm. <u>6:417</u> , 1951.	209
			Newton, Brit. J. Pharm. <u>6:417</u> , 1951.	210
			Kensler, J. Pharm. Exp. Ther. <u>88:99</u> , 1946. Neuman, J. Pharm. Exp. Ther. <u>96:95</u> , 1949. Waters, Science <u>102:604</u> , 1945. McDonald, Brit. J. Pharm. <u>3:116</u> , 1948. Foa, Chicago Med. School. Quart. <u>8:15</u> , 1947.	211
			Hambourger, J. Pharm. Exp. Ther. <u>99:245</u> , 1950. Ibid Ibid Ibid	212
			Hambourger, J. Pharm. Exp. Ther. <u>99:245</u> , 1950. Ibid Ibid Ibid	213
			Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Ottat. Dissert., Heidelberg 1936. Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Ibid Ibid Way, J. Pharm. Exp. Ther. <u>87:265</u> , 1946. Gruber, J. Pharm. Exp. Ther. <u>81:254</u> , 1944. Launoy, J. Physiol. path. gén. <u>30:564</u> , 1932. Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Gros, Arch. exp. Path. Pharm. <u>182:348</u> , 1936. Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Fitch, J. Pharm. Exp. Ther. <u>42:266</u> , 1931. Ibid <u>44:325</u> , 1932. Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Fitch, J. Pharm. Exp. Ther. <u>44:325</u> , 1932. Barlow, J. Lab. Clin. Med. <u>23:601</u> , 1938. Kochmann, Heffter's Hdb. <u>E. 2:147</u> . Ibid Ottat. Dissert., Heidelberg 1936. Kochmann, Heffter's Hdb. <u>E. 2:147</u> .	214

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
215 Barium acetate	Rabbit Rabbit Rabbit Rabbit	or or sc iv	LD LD LD LD	236 815 96 8-15
216 Barium carbonate	Mouse Rat ¹ Rat Rabbit Pig	or or or or ?	LD LD ₅₀ LD LD LD	200 1480±340 50-200 170-300 1000
217 Barium chloride	Frog Mouse Rat Rat Rat Guinea pig Rabbit Rabbit Rabbit Rabbit Rabbit Cat Cat Dog Dog Dog Dog Dog Pigeon Pigeon Chicken Chicken Sheep Horse Horse Hedgehog Hedgehog	sc or or sc sc sc or sc sc sc iv sc iv or sc sc iv iv or sc sc sc iv or or or sc	LD LD LD LD MLD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD LD	60 ² 7-14 ² 355-533 45-89 20 50-60 170 40-75 50 113 100-200 4-30 18-60 40-60 90 10-20 15-25 24 300 ² 500 60-80 50-80 55 5 800-1200 ² 700 ² 4800-9600 50
218 Barium fluoride	Frog Guinea pig Guinea pig	sc or sc	LD LD LD	1375 350 550
219 Barium silicofluoride	Rat Rabbit	or or	LD ₅₀ [*] MLD	175 175
220 Benadryl (continued on next page)	Mouse Mouse Mouse	or sc sc	LD ₅₀ LD ₅₀ LD ₅₀	164 127 144±8

¹/1/Norway rat. ²/2/Per animal.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		24 hr 1 1/2 hr	Crawford, U. S. Bur. Plant Ind. Bull 129, 1908. Ibid Ibid Esser, Deut. Zschr. ger. Med. 25:239, 1935.	215
		1-8 da	Esser, Deut. Zschr. ger. Med. 25:239, 1935. Deke, Pub. Health Rpt. 61:672, 1946. Esser, Deut. Zschr. ger. Med. 25:239, 1935. Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Esser, Deut. Zschr. ger. Med. 25:239, 1935.	216
			Esser, Deut. Zschr. ger. Med. 25:239, 1935. Ibid Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Ibid Loeser, J. Lab. Clin. Med. 15:35, 1929. Esser, Deut. Zschr. ger. Med. 25:239, 1935. Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Ibid Esser, Deut. Zschr. ger. Med. 25:239, 1935. Ibid Ibid Ibid Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Esser, Deut. Zschr. ger. Med. 25:239, 1935. Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Ibid Esser, Deut. Zschr. ger. Med. 25:239, 1935. Ibid Ibid Schwartz, U. S. Dept. Agr. Bull. 915, 1920. Ibid Ibid Esser, Deut. Zschr. ger. Med. 25:239, 1935. Ibid Ibid Ibid Ibid	217
			Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Ibid	218
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Muehlberger, J. Pharm. Exp. Ther. 39:247, 1930.	219
			Gruhn, J. Pharm. Exp. Ther. 89:227, 1947. Ibid Hoppe, J. Pharm. Exp. Ther. 97:371, 1949.	220

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
220 Benadryl (concluded)	Mouse	ip	LD ₅₀	75±5.2
	Mouse	ip	LD ₅₀	80±8
	Mouse	ip	LD ₅₀	83-85
	Mouse	ip	LD ₅₀	74.6
	Mouse	iv	LD ₅₀	31±0.8
	Mouse	iv	LD ₅₀	35±1
	Rat	or	LD ₅₀	500
	Rat	or	LD ₅₀	545
	Rat	sc	LD ₅₀	474
	Rat	ip	LD ₅₀	82
	Rat	ip	LD ₅₀	61±9
	Rat	iv	LD ₅₀	42
	Rat	iv	LD ₅₀	46
	Guinea pig	ip	LD ₅₀	75
	Rabbit	iv	LD ₅₀	10
	Dog	iv	LD ₅₀	24
	Hamster	iv	LD ₅₀	18
221 Benemid ¹	Mouse	or	LD ₅₀	1666
	Mouse	sc	LD ₅₀	1156
	Mouse	iv	LD ₅₀	458
	Rat	or	LD ₅₀	1604
	Rat	sc	LD ₅₀	611
	Rat	ip	LD ₅₀	394
	Rabbit	iv	LD ₅₀	304
	Dog	iv	LD ₅₀	270
222 Betyl HCl	Mouse	or	LC	625±21
	Rabbit	iv	LD	35±3.3
223 Benzaldehyde	Rat	sc	LD ^o	5000
224 Benzedrine ²	Mouse	ip	LD ₅₀	101
	Mouse	iv	LD ₅₀ ^o	25
	Rat	or	MLD	4-6
	Rat	ip	MLD	1.5-2.5
225 Benzedrine sulfate	Frog	sc	LD ₅₀ ^o	280
	Mouse	or	LD ₅₀ ^o	22
	Mouse	sc	LD	25
	Mouse	sc	LD ₅₀	270
	Mouse	sc	LD	155
	Mouse	sc	LD	140
	Mouse	ip	LD	92-104
	Mouse	ip	LD	120
	Mouse	ip	LD	50
	Mouse	iv	LD ₅₀ ^o	15
	Rat	sc	LD ₅₀	30-200
	Rat	sc	MLD	30-200
	Rat	sc	LD	25
	Rat	ip	LD	23
	Rabbit	or	LD ₅₀	85 ³
	Rabbit	iv	MLD ^o	22
	Rabbit	iv	LD	25
	Dog	or	MLD	20

¹/Given as the sodium salt; calculated as free acid. ²/As the base. ³/As a 0.25% solution.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		7 da	Sherrod, J. Pharm. Exp. Ther. 89:247, 1947. Hoppe, J. Pharm. Exp. Ther. 97:371, 1949. Way, J. Pharm. Exp. Ther. 104:115, 1952. Reinhard, Proc. Soc. Exp. Biol. Med. 66:512, 1942. Lands, J. Pharm. Exp. Ther. 85:45, 1949. Hoppe, J. Pharm. Exp. Ther. 97:371, 1949. Gruhzit, J. Pharm. Exp. Ther. 89:227, 1947. Sachs, Ann. Int. Med. 29:135, 1948. Gruhzit, J. Pharm. Exp. Ther. 89:227, 1947. Loew, Physiol. Rev. 27:542, 1947. Winder, J. Pharm. Exp. Ther. 87:121, 1948. Gruhzit, J. Pharm. Exp. Ther. 89:227, 1947. Loew, Physiol. Rev. 27:542, 1947. Ibid Gruhzit, J. Pharm. Exp. Ther. 89:227, 1947. Ibid Hoppe, J. Pharm. Exp. Ther. 97:371, 1949.	220
			McKinney, J. Pharm. Exp. Ther. 102:208, 1951. Ibid Ibid Ibid Ibid Ibid Ibid	221
		1 hr 24 min	Brown, J. Am. Pharm. Assoc. 39:305, 1950. Ibid	222
			Macht, Arch. int. pharmacod. 27:163, 1922-23.	223
			Marah, J. Pharm. Exp. Ther. 100:298, 1950. Halpern, J. physiol. path. gén. 37:597, 1939. Hauschild, Arch. exp. Path. Pharm. 191:465, 1939. Ibid	224
	N saline H ₂ O		Günther, J. Pharm. Exp. Ther. 76:375, 1942. Halpern, J. physiol. path. gén. 37:597, 1939. Ibid Günther, J. Pharm. Exp. Ther. 76:375, 1942. Chakravarti, J. Pharm. Exp. Ther. 67:153, 1939. Heubner, Arch. exp. Path. Pharm. 202:594, 1943. Jacobsen, Skand. Arch. Physiol. 79:258, 1938. Gun, J. Physiol. 95:485, 1939. Heubner, Arch. exp. Path. Pharm. 202:594, 1943. Halpern, J. physiol. path. gén. 37:597, 1939. Ehrich, Am. J. Med. Sc. 198:785, 1939. Ehrich, Ann. Int. Med. 10:1874, 1937. Hartung, J. Am. Chem. Soc. 53:1875, 1931. Hauschild, Arch. exp. Path. Pharm. 195:647, 1940. Reifenstein, Proc. Pharm. Soc. p28, 1940. Halpern, J. physiol. path. gén. 37:597, 1939. Hartung, J. Am. Chem. Soc. 53:1875, 1931. Ehrich, Am. J. Med. Sc. 198:785, 1939.	225

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
226	Benzene	Rat Rat Guinea pig	ip or ip	LD LD ₅₀ LD	1.5-1.75cc 5700 527
227	Benzene hexachloride (a)	Rat Rat	or or	LD LD ₅₀ ^a	1700 500
228	Benzene hexachloride (b)	Rat	or	LD ₅₀ ^a	6000
229	Benzene hexachloride (7)	Mouse Rat Rat Rat Rat Rat Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit Rabbit Rabbit	or or or or sc ip or or or sc or or ct ct sc iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD	86 177 200 125 50 35-85 ¹ 100 127 100 60 200 >4000 ² >180 ³ 75 4.5-6.0
230	Benzene hexachloride (8)	Rat	or	LD ₅₀	900
231	Benzidine	Dog Dog	or sc	LD LD	200 ⁴ 400 ⁵
232	Benzilyloxyethyldiethylmethylammonium chloride	Mouse Mouse Mouse	or sc ip	LD ₅₀ LD ₅₀ LD ₅₀	1000 130 62.5
233	Benzilyloxyethyldimethylethylammonium chloride	Mouse Mouse Mouse	or sc ip	LD ₅₀ LD ₅₀ LD ₅₀	1000 160 40
234	Benzilyloxyethyldimethylisopropylammonium chloride	Mouse Mouse	sc ip	LD ₅₀ LD ₅₀	75 40
235	Benzilyloxyethyltriethylammonium bromide	Mouse	sc	LD ₅₀	150
236	Benzilyloxypropyldiethylmethylammonium chloride	Mouse Mouse	sc ip	LD ₅₀ LD ₅₀	550 90
237	Benzilyloxypropyldimethylethylammonium chloride	Mouse	sc	LD ₅₀	650
238	4-Benzilyloxy-1,2,2,6-tetramethylpiperidine methochloride (a)	Mouse Mouse	sc ip	LD ₅₀ LD ₅₀	375 80

/1/Amount depending on fatty solvent. /2/Dry. /3/In solution. /4/ Hydrochloride.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
5020-6490			Batchelor, Am. J. Hyg. 7:276, 1927. Smyth, unpublished data, Mellon Inst. Chassevant, C. rend. Soc. biol. 55:1255, 1898.	226
		7 da	Dallemagne, Arch. int. pharmacod. 76:274, 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	227
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	228
			Div. Pharm. F. & D. Adm. Q. Rpt. 3, March, 1946. Ibid	229
	Peanut oil		Dallemagne, Arch. int. pharmacod. 76:274, 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Dallemagne, Arch. int. pharmacod. 76:274, 1948. Coper, Arch. exp. Path. Pharm. 212:463, 1951. Dallemagne, Arch. int. pharmacod. 76:274, 1948. Woodard, Fed. Proc. 6:386, 1947. Dallemagne, Arch. int. pharmacod. 76:274, 1948. Woodard, Fed. Proc. 6:386, 1947. Dallemagne, Arch. int. pharmacod. 76:274, 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1951. Ibid	
	Peanut oil		Dallemagne, Arch. int. pharmacod. 76:274, 1948. McNamara, J. Pharm. Exp. Ther. 92:140, 1948.	
	Peanut oil		Taylor, Chem. Indust. 64:314, 1945.	230
		12-24 hr 12-24 hr	Adler, Arch. exp. Path. Pharm. 58:167, 1907. Ibid	231
			Ing. J. Pharm. Exp. Ther. 85:85, 1945. Ibid Ibid	232
			Ing. J. Pharm. Exp. Ther. 85:85, 1945. Ibid Ibid	233
			Ing. J. Pharm. Exp. Ther. 85:85, 1945. Ibid	234
			Ing. J. Pharm. Exp. Ther. 85:85, 1945.	235
			Ing. J. Pharm. Exp. Ther. 85:85, 1945. Ibid	236
			Ing. J. Pharm. Exp. Ther. 85:85, 1945.	237
			Ing. J. Pharm. Exp. Ther. 85:85, 1945. Ibid	238

/5/ Base.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
239	4-Benzilyloxy-1, 2, 2, 6-tetra- methylpiperidine methochloride (β)	Mouse	or	LD ₅₀	1000
		Mouse	sc	LD ₅₀	325
		Mouse	ip	LD ₅₀	75
240	Benzimidazole	Mouse	iv	LD ₅₀	280±18
241	Benzoic acid (sodium salt)	Frog	sc	LD	100-200
		Rat	iv	LD ₅₀	1714±124
		Guinea pig	ip	LD	1400
		Rabbit	or	LD*	2000
		Rabbit	sc	LD*	2000
		Dog	or	LD	2000
242	Benzoic acid butyl ester	Rat	or	LD ₅₀	5140
243	Benzoic acid ethyl ester	Rat	or	LD ₅₀	6480
244	Benzoic acid methyl ester	Rat	or	LD ₅₀	3430
245	Benzoic acid vinyl ester	Rat	or	LD ₅₀	3250
246	Bensonitrile	Frog	sc	LD	1700
		Mouse	sc	LD	180
		Rabbit	sc	LD	200
		Pigeon	im	MLD	500
247	Benzothiazole	Mouse	iv	LD ₅₀	95±3
248	Benzotriazole	Mouse	iv	LD ₅₀	238±16
249	Benzotrichloride	Rat	or	LD ₅₀	6000
250	Benzoxazole	Mouse	iv	LD ₅₀	179±20
251	3-Benzoxo-6-dimethylamino-4,4- diphenylheptane	Mouse	sc	LD ₅₀	500
252	3-Benzoxo-6-dimethylamino-4,4- diphenyl-5-methylhexane	Mouse	sc	LD ₅₀	500
253	(3-Benzoxo-phenyl)methyldiethyl- ammonium bromide	Mouse	iv	LD ₅₀	9.3±1.7
254	(2-Benzoxo-phenyl)trimethyl- ammonium bromide	Mouse	iv	LD ₅₀	12±0.74
255	(4-Benzoxo-phenyl)trimethyl- ammonium bromide	Mouse	iv	LD ₅₀	7.65±0.70
256	Benzyl alcohol	Mouse	sc	LD	1000
		Rat	or	LD ₅₀	3100
		Rat	sc	LD	1000-3000
		Guinea pig	sc	LD	1000-2500
		Rabbit	ct	LD ₅₀	1260
		Rabbit	sc	LD*	2000
257	Benzylbenzazepine	Mouse	ip	LD ₅₀	165±4
		Mouse	iv	LD ₅₀	21.6±4
258	Benzyl benzoate (continued on next page)	Mouse	or	LD ₅₀	1.4
		Rat	or	LD ₅₀	1.7

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Ing. J. Pharm. Exp. Ther. <u>85</u> :85, 1945. Ibid Ibid	239
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	240
			Flury, Abderhalden's Hdb. <u>4.7b</u> :1313. Hager, J. Am. Pharm. Assoc. <u>31</u> :253, 1942. Ibid Flury, Abderhalden's Hdb. <u>4.7b</u> :1313. Ibid Ibid	241
4700-5620			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954.	242
5660-7420			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954.	243
2830-4150			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954.	244
2480-4260			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954.	245
		50 hr	Verbrugge, Arch. int. pharmacod. <u>5</u> :161, 1899. Hunt, Arch. int. pharmacod. <u>12</u> :447, 1904. Verbrugge, Arch. int. pharmacod. <u>5</u> :161, 1899. Meurice, Arch. int. pharmacod. <u>7</u> :11, 1900.	246
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	247
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	248
			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :118, 1951.	249
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	250
			Eddy, J. Pharm. Exp. Ther. <u>98</u> :121, 1950.	251
			Eddy, J. Pharm. Exp. Ther. <u>98</u> :121, 1950.	252
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950.	253
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950.	254
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950.	255
2850-3370			Macht, J. Pharm. Exp. Ther. <u>11</u> :263, 1918. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Macht, J. Pharm. Exp. Ther. <u>11</u> :263, 1918. Ibid	256
850-1860			Smyth, unpublished data, Mellon Inst. Macht, J. Pharm. Exp. Ther. <u>11</u> :263, 1918.	
			Randall, J. Pharm. Exp. Ther. <u>103</u> :10, 1951. Ibid	257
			Draize, J. Pharm. Exp. Ther. <u>93</u> :25, 1948. Ibid	258

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
258	Benzyl benzoate (concluded)	Guinea pig	or	LD ₅₀	1
		Rabbit	or	LD ₅₀	1.8
259	2-Benzyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	521.8±44.62
260	Benzyl nitrile	Frog	sc	LD	1500
		Mouse	sc	LD	32
		Rabbit	sc	LD	50
		Pigeon	im	MLD	120
261	Benzyltrimethylammonium hydroxide	Mouse	sc	LD	35
262	Beryllium carbonate	Guinea pig	ip	LD ₅₀	150
263	Beryllium chloride	Rat	ip	LD ₅₀	4.4
		Guinea pig	ip	LD ₅₀	56
		Guinea pig	ip	LD ₁₀₀	50
264	Beryllium nitrate	Guinea pig	ip	LD ₅₀	50
265	Beryllium oxyfluoride	Guinea pig	ip	LD ₁₀₀	20
266	Beryllium sulfate	Guinea pig	ip	LD ₁₀₀	100
		Mouse	iv	LD ₅₀	0.5
267	Biphenyl	Rat	or	LD ₅₀	2180
		Rat	or	LD ₅₀	3280 ¹
		Rabbit	or	LD ₅₀	2410 ¹
268	Bis-(3-carbomethoxy-4-hydroxy-phenyl)-β-trichloro ethane	Rat	or	LD ₅₀	>500
269	Bis-(β-chloroethyl)amine	Mouse	sc	LD ₅₀	20-33
270	Bis-(β-chloroethyl)chloroamine	Mouse	sc	LD ₅₀	360
		Mouse	iv	LD ₅₀	50
271	N, N'-Bis(2-chloroethyl)-N-2-(chloro-ethylaminoethyl)-ethylenediamine 3HCl	Mouse	ip	LD ₅₀	5.6
		Rat	ip	LD ₅₀	1.9
272	N, N'-Bis(2-chloroethyl)-N, N'-diethylethylenediamine 2HCl	Mouse	ip	LD ₅₀	3.9
		Rat	ip	LD ₅₀	2.3
273	Bis-(β-chloroethyl)formamide	Mouse	iv	LD ₅₀	300-500
274	Bis-(2-chloroethyl)methylamine HCl	Mouse	ip	LD ₅₀	3.8
		Rat	ip	LD ₅₀	1.8
275	Bis(β-chloroethyl)morpholinium chloride	Mouse	sc	LD ₅₀	100
276	Bis(β-chloroethyl)nitrosamine	Mouse	sc	LD ₅₀	100-200
277	NN'-Bis(2-chloroethyl)-1,4-piperazine HCl	Mouse	ip	LD ₅₀	5.7
		Rat	ip	LD ₅₀	1.1
278	Bis-(p-chlorophenoxy)methane	Rat	or	LD ₅₀	5800
279	2,6-Bis(diethylaminoethoxy)-benzophenone diethiodide	Mouse	iv	LD ₅₀	1.47
280	2,5-Bis(3-diethylaminopropylamino)-benzoquinone-bis-benzylchloride	Mouse	or	LD ₅₀	140±10
		Mouse	sc	LD ₅₀	2.5±0.1
		Mouse	iv	LD ₅₀	0.6±0.04
		Rabbit	iv	LD ₅₀	0.042±0.0035

/1/ 25% solution in olive oil.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	258
			Berger, Arch. int. pharmacod. 85:474, 1951.	259
			Verbrugge, Arch. int. pharmacod. 5:161, 1899. Hunt, Arch. int. pharmacod. 12:447, 1904. Verbrugge, Arch. int. pharmacod. 5:161, 1899. Meurice, Arch. int. pharmacod. 7:11, 1900.	260
			Hunt, J. Pharm. Exp. Ther. 28:367, 1926.	261
		4 wk	Hyslop, N.I.H. Bull. 181, 1943.	262
3.3-5.9 48-65		30 da 30 da 4 da	Cochran, Fed. Proc. 9:264, 1950. Ibid Hyslop, N.I.H. Bull. 181, 1943.	263
			Hyslop, N.I.H. Bull. 181, 1943.	264
		4 da	Hyslop, N.I.H. Bull. 181, 1943.	265
		4 da 14 da	Hyslop, N.I.H. Bull. 181, 1943. White, J. Pharm. Exp. Ther. 102:88, 1951.	266
1390-3420	Olive oil Olive oil	1½-2 da ½-6 da	Smyth, unpublished data, Mellon Inst. Deichmann, J. Ind. Hyg. Tox. 29:1, 1947. Ibid	267
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	268
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947.	269
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid	270
4.1-7.7 1.1-3.3			Phillips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	271
2.9-5.3 1.5-3.6			Phillips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	272
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947.	273
2.8-5.2 1.1-2.9			Phillips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	274
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947.	275
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947.	276
3.8-8.3 0.95-1.3			Phillips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	277
5000-6000			Spencer, Arch. Ind. Hyg. Occ. Med. 1:341, 1950.	278
			Pelikan, Proc. Pharm. Soc. Fall Meet. p 64, 1951.	279
			Hoppe, J. Pharm. Exp. Ther. 100:333, 1950. Ibid Ibid Ibid	280

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
281	Bis(dimethylamido)fluorophosphate	Mouse Mouse Rat Rat Guinea pig Dog	ip ip or ip ip iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	5 1.4 7.5 5 2.5 5-10
282	2, 6-Bis(ethylamino)-4-amino-s-triapine	Mouse Rat	ip ip	LD ₅₀ LD ₅₀	1.8 0.7
283	1,6-Bis(3,3-ethyleneimidoureido)-n-hexane	Mouse Rat	ip ip	LD ₅₀ LD ₅₀	5.5 1.5
284	2,3-Bis(3,3-ethyleneiminoureido)toluene	Mouse Rat	ip ip	LD ₅₀ LD ₅₀	21 11
285	1, 10-Bis(9-fluorenyldiethyl-ammonium)decane bromide	Mouse Rabbit	iv iv	LD ₅₀ LD ₅₀	0.75 0.22
286	1, 6-Bis(9-fluorenyldiethyl-ammonium)hexane bromide	Mouse Mouse Mouse	sc iv iv	LD ₅₀ LD ₅₀ LD ₅₀	19.95 1.16 0.11
287	1, 6-Bis(9-fluorenyldimethyl-ammonium)hexane bromide	Mouse Mouse Mouse Rabbit	or sc iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	280 240 1.76 0.11
288	2, 3-Bis[3-(2-hydroxyethyl)ureido] toluene	Mouse Rat	ip ip	LD ₅₀ LD ₅₀	>500 >500
289	2, 3-Bis-(p-hydroxyphenyl)propionitrile	Rat	sc	LD ₅₀ *	1500
290	2, 3-Bis-(p-hydroxyphenyl)valeronitrile	Mouse Mouse Rat Rat	ip or ip or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	93±10 2850±300 70±10 >3500
291	Bismarsen	Rat	im	LD	500
292	2, 7-Bis(trichloromethyl)-4-methyl-1, 3, 6-trioxepane	Rat	or	LD ₅₀	10, 000
293	Boric acid	Mouse Mouse Mouse Mouse Rat Rat Rat Rat Guinea pig Dog	or sc sc iv or or iv sc or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	3450±158 1740±130 2070±170 1780±121 5140 2660±220 1330±112 1200±80 >1000
294	Borneol	Rabbit	or	LD*	2000

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			DuBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952. Okinaka, J. Pharm. Exp. Ther. 112:231, 1954. Ibid Ibid Ibid	281
1.35-2.4			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	282
4.7-6.4 1.2-1.8			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	283
14-32			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	284
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid	285
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid Ibid	286
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid Ibid Ibid	287
			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	288
			Sturtevant, J. Pharm. Exp. Ther. 112:176, 1954.	289
			Sturtevant, J. Pharm. Exp. Ther. 112:176, 1954. Ibid Ibid Ibid	290
			Raisiss, Arch. f. Derm. Syph. 28:389, 1933.	291
			Finnegan, Fed. Proc. 10:294, 1951.	292
4740-5580			Pfeiffer, J. Am. Med. Assoc. 128:266, 1945. Ibid Ibid Ibid Smyth, unpublished data, Mellon Inst. Pfeiffer, J. Am. Med. Assoc. 128:266, 1945. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1315.	293
		Sev hr	Pellacani, Arch. exp. Path. Pharm. 17:368, 1883.	294

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			DuBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952. Okinaka, J. Pharm. Exp. Ther. 112:231, 1954. Ibid Ibid Ibid	281
1.35-2.4			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	282
4.7-6.4 1.2-1.8			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	283
14-32			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	284
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid	285
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid Ibid	286
			Macri, Proc. Soc. Exp. Biol. Med. 85:603, 1954. Ibid Ibid Ibid	287
			Philips, J. Pharm. Exp. Ther. 100:398, 1950. Ibid	288
			Sturtevant, J. Pharm. Exp. Ther. 112:176, 1954.	289
			Sturtevant, J. Pharm. Exp. Ther. 112:176, 1954. Ibid Ibid Ibid	290
			Raisz, Arch. f. Derm. Syph. 28:389, 1933.	291
			Finnegan, Fed. Proc. 10:294, 1951.	292
4740-5580			Pfeiffer, J. Am. Med. Assoc. 128:266, 1945. Ibid Ibid Ibid Smyth, unpublished data, Mellon Inst. Pfeiffer, J. Am. Med. Assoc. 128:266, 1945. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1315.	293
		Sev hr	Pellacani, Arch. exp. Path. Pharm. 17:368, 1883.	294

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
295	Bovogenin E	Cat	iv	LD ₅₀	0.1976
296	Bovoside D	Cat	iv	LD ₅₀	0.1118
297	Brilliant green ¹	Mouse	ip	LD ₅₀	5
		Mouse	iv	LD ₁₀₀	3
		Rat	ip	LD ₅₀	8
		Guinea pig	ip	LD ₅₀	3
298	Bromoform	Rabbit	sc	LD*	922
		Rabbit	sc	LD	1751
299	o-Bromophenol	Mouse	sc	LD	350
		Rat	sc	LD	1500-1800
		Guinea pig	sc	LD	1500-1800
300	p-Bromophenyl, phenyl-methylether of β-Dimethylamino ethanol	Mouse	ip	LD ₅₀	105±3
301	p-Bromophenyl, phenyl-methylether of Pyrrolidino ethanol	Mouse	ip	LD ₅₀	144±2
302	Bromotrichloroethyl malonate	Rat	or	LD ₅₀	3400
303	Bromural	Rabbit	or	MLD	1200
		Cat	or	MLD	450
304	Brucine	Dog	iv	LD	8
		Pigeon	sc	MLD	57.98 ²
305	Bufagenine	Cat	iv	LD ₅₀	0.22
306	Bufotoxin ³	Cat	iv	LD ₅₀	0.39
		Cat	iv	LD ₅₀	0.41
		Cat	iv	LD ₅₀	0.27
		Cat	iv	LD ₅₀	0.38
307	Bulan	Rat	or	LD ₅₀ *	330
		Rat	ct	LD ₅₀ *	>4000
308	Bulbocapnine	Mouse	sc	LD ₅₀	195
309	1, 3-Butanediamine	Rat	or	LD ₅₀	1350
		Rabbit	ct	LD ₅₀	480
310	Butanediol	Rat	or	LD ₅₀	22,800
311	1, 2, 4-Butanetriol	Mouse	or	LD	23.31 cc
		Mouse	sc	LD	12.64 cc
		Rat	or	LD	29.40 cc
		Rat	sc	LD	11.37 cc
312	2-Butoxyethanol	Rabbit	or	LD ₅₀	350
		Rabbit	ct	LD ₅₀	560
313	2(2-Butoxyethoxy)ethanol	Rat	or	LD ₅₀	6560
		Guinea pig	or	LD ₅₀	2000
		Rabbit	or	LD ₅₀	2200
		Rabbit	ct	LD ₅₀	4120

/1/ Medical grade. /2/ As the base. /3/ From various toad species.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
0.1382-0.2434	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	295
0.0723-0.1559	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	296
			Anderson, Proc. Soc. Exp. Biol. Med. 31:825, 1934.	297
			Ibid	
			Ibid	
			Ibid	
		12 hr	Binz, Arch. exp. Path. Pharm. 28:201, 1891.	298
		24 hr	Ibid	
			Bechold, Zschr. physiol. Chem. 47:173, 1906.	299
			Binet, Rev. méd. Suisse rom. 16:449, 1896.	
			Ibid	
			Ensor, J. Pharm. Exp. Ther. 112:318, 1954.	300
			Ensor, J. Pharm. Exp. Ther. 112:318, 1954.	301
			Finnegan, Fed. Proc. 10:294, 1951.	302
	H ₂ O	2 da	Airila, Skand. Arch. Physiol. 28:193, 1913.	303
			Sollmann, J. Am. Med. Assoc. 51:487, 1908.	
			Flury, Abderhalden's Hdb. 4.7b:1316.	304
			Ibid	
			Chen, Proc. Soc. Exp. Biol. Med. 29:905, 1932.	305
			Chen, Proc. Soc. Exp. Biol. Med. 29:907, 1932.	306
			Ibid	
			Ibid	
			Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	307
			Ibid. 16:3, 1952.	
			Molitor, J. Pharm. Exp. Ther. 56:85, 1936.	308
310-600			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	309
			Ibid	
21,800-23,900			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	310
			Bornmann, Arch. exp. Path. Pharm. 210:361, 1950.	311
			Ibid	
			Kcpl, Arch. exp. Path. Pharm. 212:405, 1951.	
			Bornmann, Arch. exp. Path. Pharm. 210:361, 1950.	
330-380			Smyth, unpublished data, Mellon Inst.	312
480-640			Ibid	
5470-7860			Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	313
1720-2310			Ibid	
2420-3020			Ibid	
2530-6550			Smyth, unpublished data, Mellon Inst.	

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
314 2(2-Butoxyethoxy)ethanol acetate	Rat Guinea pig Rabbit	or or or	LD ₅₀ LD ₅₀ LD ₅₀	11,920 2340 2260
315 Butyl acetate	Mouse Rat	or or	LD ₅₀ LD ₅₀	7056 14,130
316 Butyl acrylate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3730 3360
317 n-Butyl alcohol	Mouse Mouse Rat Rat Rabbit Cat Dog Dog	or sc or ip ct iv or sc	LD ₅₀ LD LD ₅₀ LD LD ₅₀ LD LD LD	2835 5022 4360 972 4200 243 1782 1944-2268
318 Butyl alcohol (secondary)	Mouse Rat	sc or	LD LD ₅₀	3232-4040 6480
319 Butyl alcohol (tertiary)	Rat	or	LD ₅₀	3500
320 n-Butylamine	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	500 850
321 Butylaminoalcohol	Rat	or	LD ₅₀	1150
322 n-Butylaniline	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	1620 5.99 cc
323 Butylbenzazepine	Mouse Mouse	ip iv	118±6 15±3	
324 Butyl carbide	Mouse Rat	ip or	LD ₅₀ LD ₅₀	850 6560
325 n-Butylcarbitol thiocyanate	Mouse Rat Cat	sc sc or	MLD MLD LD	200 500 100
326 2-Butyldioxaspirane	Mouse	ip	LD ₅₀	>1422
327 Butylene glycol	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	18,610 11,460
328 1,3-Butylene glycol	Mouse Mouse Eat Rat	or sc or sc	LD LD LD LD	23.31 cc 16.5 cc 29.42 cc 20.06 cc
329 1,4-Butylene glycol	Mouse	or	LD ₅₀	2.14 cc
330 2,3-Butylene glycol	Mouse	or	LD ₅₀	9.00 cc
331 n-Butylepinephrine	Mouse	sc	LD	200
332 Butyl ether	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	7400 10.8 cc

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
10,880-13,100 1900-2880 2010-2550			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid Smyth, unpublished data, Mellon Inst.	314
11,840-16,850			McOmie, Univ. Cal. Publ. Pharmacol. 2:231, 1949. Smyth, unpublished data, Mellon Inst.	315
2680-5210 2400-4720			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	316
3980-4780 3600-6000			McOmie, Univ. Cal. Publ. Pharmacol. 2:217, 1949. Starrek, Dissert., Würzburg 1938. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Lendle, Arch. exp. Path. Pharm. 132:214, 1928. Smyth, unpublished data, Mellon Inst. Macht, J. Pharm. Exp. Ther. 16:1, 1927. Gajardin, C. rend. Acad. sc. 81:192, 1875. Ibid	317
5730-7320			Starrek, Dissert., Würzburg 1938. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	318
			Schaffarzick, Science 116:663, 1952.	319
600-1190			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Smyth, unpublished data, Mellon Inst.	320
1040-1270			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	321
1240-2130 3.57-10.07 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	322
			Randall, J. Pharm. Exp. Ther. 103:10, 1951. Ibid	323
5420-7860		72 hr	Karel, Fed. Proc. 6:342, 1947. Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	324
		2-4 hr 3/4+ hr 28 hr	Von Oettingen, J. Ind. Hyg. Tox. 18:310, 1936. Ibid Ibid	325
			Berger, Arch. int. pharmacod. 85:474, 1951.	326
17,430-19,880 10,290-12,770			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	327
			Fischer, Zentr. ges. exp. Med. 115:22, 1949. Ibid Ibid Ibid	328
			Fischer, Zentr. ges. exp. Med. 115:22, 1949.	329
			Fischer, Zentr. ges. exp. Med. 115:22, 1949.	330
			Konzett, Klin. Wochr. 19:1303, 1940	331
6410-8530 4.41-23.04 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	332

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
333 n-Butyl-D,L-malate	Mouse	or	LD ₅₀	20 cc
334 n-Butylmethacrylate	Rat	or	LD ₁₀₀	17,900
	Rabbit	or	LD ₅₀	9000
335 N-sec.-Butylphthalimide	Mouse	or	LD ₅₀	1.6 cc
	Rat	or	LD ₅₀	1.1 cc
	Guinea pig	or	LD ₅₀	1.2 cc
	Rabbit	or	LD ₅₀	2.3 cc
336 Butyl stearate	Rat	or	LD	>32,000
337 Butyl-K-strophanthidin (Iso-)	Cat	iv	LD	0.43
338 n-Butyl-K-strophanthidin	Rabbit	iv	LD	0.50
	Cat	iv	LD	0.35
339 N-Butyl-1, 2, 3, 6-tetrahydro-naphthylamide	Mouse	or	LD ₅₀	3.3 cc
	Rat	or	LD ₅₀	2.5 cc
340 n-Butyl thiocyanate	Mouse	sc	MLD	124
	Rat	sc	MLD	67
	Cat	or	MLD	191
341 p-tert.-Butyltoluene	Mouse	or	LD ₅₀	0.9±0.06 cc
	Rat	or	LD ₅₀	1.8±0.14 cc
	Rabbit	or	LD ₅₀	2.0±0.14 cc
342 n-Butyltrimethylammonium iodide	Mouse	ip	LD ₅₀	19
343 Butyn sulfate	Frog	sc	MLD	7.70-150
	Mouse	sc	LD	100
	Rat	sc	MLD	197
	Rat	sc	LD	150
	Rat	iv	MLD	7.5-10.0
	Guinea pig	sc	MLD	>70
	Rabbit	sc	MLD	50-55
	Rabbit	iv	MLD	12
	Cat	sc	MLD	30-55
	Cat	iv	MLD	15
	Dog	sc	MLD	55
344 Butyraldehyde	Mouse	sc	LD ₅₀	6170
	Rat	or	LD ₅₀	5890
	Rat	sc	LD ₅₀	10,000
	Rabbit	ct	LD ₅₀	3560
345 Butyric acid	Rat	or	LD ₅₀	2940
	Rat	or	LD ₅₀	8790
	Rabbit	ct	LD ₅₀	6.35 cc
346 Butyric anhydride	Rat	or	LD ₅₀	8790
	Rabbit	ct	LD ₅₀	6350
347 Butyronitrile	Frog	sc	MLD	3100
	Rabbit	sc	MLD	10
	Pigeon	im	MLD	1100

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948.	333
		10-36min 10-36min Ibid	Deichmann, J. Ind. Hyg. Tox. <u>23:343</u> , 1941. Ibid	334
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid Ibid Ibid	335
			Smith, Arch. Ind. Hyg. Occ. Med. <u>7:310</u> , 1953.	336
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937.	337
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937. Ibid	338
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid	339
		1-4 hr 2½-7 hr 7 hr	Von Oettingen, J. Ind. Hyg. Tox. <u>18:310</u> , 1936. Ibid Ibid	340
		24-48 hr 24-48 hr 24-48 hr	Hine, Arch. Ind. Hyg. Occ. Med. <u>9:227</u> , 1954. Ibid Ibid	341
			Alles, Univ. Cal. Publ. Pharmacol. <u>1:187</u> , 1939.	342
			Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Schmitz, J. Pharm. Exp. Ther. <u>24:167</u> , 1925. Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Schmitz, J. Pharm. Exp. Ther. <u>24:167</u> , 1925. Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Ibid Ibid Ibid Ibid Ibid	343
5540-6250 2200-5 '60		24 hr 24 hr	Skog, Acta pharm. tox. <u>6:299</u> , 1950. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Skog, Acta. pharm. tox. <u>6:299</u> , 1950. Smyth, unpublished data, Mellon Inst.	344
2010-429J 8060-9580 3.99-10.28 cc			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	345
8060-9580 3,940-10,230			Smyth, unpublished data, Mellon Inst. Ibid	346
			Verbrugge, Arch. int. pharmacod. <u>3:161</u> , 1899. Ibid Meurice, Arch. int. pharmacod. <u>7:11</u> , 1900.	347

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
348 Cacodylic acid	Guinea pig	sc	LD	1000
	Rabbit	sc	LD	300
	Rabbit	iv	LD	250
	Dog	sc	LD	1000
349 Cadmium chloride	Frog	sc	LD	30
	Mouse	sc	LD	20
	Rat	or	LD ₅₀ *	88
	Rabbit	or	LD	70-150
	Rabbit	sc	LD	25-50
	Rabbit	iv	LD	2
	Cat	sc	LD	25-40
	Dog	iv	LD	5
350 Cadmium sulfate	Dog	sc	LD	27
	Dog	sc	LD	105
351 Caffeine	Frog	sc	LD	120-130
	Mouse	sc	LD	180-190
	Mouse	ip	MLD	220
	Mouse	ip	LD	500
	Mouse	ip	LD	250
	Mouse	iv	LD ₅₀	100.9±6.67
	Rat	or	LD ₅₀	200
	Rat	or	LD ₅₀	233±14
	Rat	sc	LD	70-130
	Rat	sc	LD	250
	Rat	ip	MLD	210-280
	Rat	iv	LD ₅₀	164.8±1.87
	Guinea pig	sc	MLD	200-240
	Guinea pig	ip	MLD	220-250
	Rabbit	or	MLD	290-350
	Rabbit	or	LD	350-360
	Rabbit	sc	MLD	200-300
	Rabbit	sc	LD	270-280
	Rabbit	im	LD	200
	Rabbit	iv	LD	80-100
	Cat	or	MLD	100-150
	Cat	sc	MLD	150
	Cat	sc	LD	150-155
	Cat	ip	MLD	180-200
	Cat	iv	MLD	80-100
	Dog	or	MLD	140-150
	Dog	sc	MLD	500
	Dog	sc	LD	110
	Dog	iv	LD ₅₀ *	175
	Cat	iv	LD ₅₀	175
352 Calcium acetate	Mouse	iv	LD ₅₀	226
	Mouse	iv	LD ₅₀	204
	Rat	or	LD ₅₀	428C
	Rat	iv	LD ₅₀	245

/1/Reference indicates this as an average lethal dose.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Heffter, Heffter's Hdb. 3.1: 503. Ibid Ibid Ibid	348
			Flury, Abderhalden's Hdb. 4.7b:1317. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 16:122, 1951. Flury, Abderhalden's Hdb. 4.7b:1317. Ibid Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1317.	349
			Flury, Abderhalden's Hdb. 4.7b:1317. Ibid	350
		4-5 da 2-3 da	Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Ibid Flury, Abderhalden's Hdb. 4.7b:1336. Rpt. Chemother. Leukemia, So. Res. Inst. Aug. 1949. Ibid Scott, J. Pharm. Exp. Ther. 82:89, 1944. Smith, J. Pharm. Exp. Ther. 55:200, 1935. Scott, J. Pharm. Exp. Ther. 82:89, 1944. Flury, Abderhalden's Hdb. 4.7b:1336. Kreitman, Arch. exp. Path. Pharm. 87:607, 1937. Flury, Abderhalden's Hdb. 4.7b:1335. Scott, J. Pharm. Exp. Ther. 82:89, 1944. Flury, Abderhalden's Hdb. 4.7b:1335. Ibid Ibid Salant, J. Pharm. Exp. Ther. 1:572, 1910. Flury, Abderhalden's Hdb. 4.7b:1335. Salant, J. Pharm. Exp. Ther. 1:572, 1910. Ibid Flury, Abderhalden's Hdb. 4.7b:1335. Ibid Ibid Salant, J. Pharm. Exp. Ther. 1:572, 1910. Flury, Abderhalden's Hdb. 4.7b:1335. Ibid Ibid Ibid Salant, J. Pharm. Exp. Ther. 1:572, 1910. Pilcher, J. Pharm. Exp. Ther. 3:19, 1911-12. Soilmann, J. Pharm. Exp. Ther. 3:19, 1911-12.	351
3860-4760		<1-1 hr	Welch, J. Lab. Clin. Med. 29:811, 1944. Cole, J. Pharm. Exp. Ther. 71:1, 1941. Smyth, unpublished data. Mellon Inst. Cole, J. Pharm. Exp. Ther. 71:1, 1941.	352

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
353	Calcium arsenate	Rat	or	LD	20
		Rabbit	or	LD	40
354	Calcium chlorate	Rat	or	LD ₅₀	4500 ¹
		Rat	ip	LD ₅₀	625 ¹
355	Calcium chloride	Rat	or	LD ₅₀	4000 ¹
		Rat	ip	LD ₅₀	500 ¹
		Rat	iv	MLD	168.7
		Rabbit	or	LD	1384
		Rabbit	sc	LD	472
		Rabbit	iv	LD	274
		Cat	sc	LD	249
		Cat	iv	LD	249
		Dog	sc	LD	274
		Dog	iv	LD	274
356	Calcium fluoride	Frog	sc	LD	>25,000
		Guinea pig	or	LD	>5000
		Guinea pig	sc	LD	>5000
357	Calcium hydroxide	Rat	or	LD ₅₀	7340
358	Calcium silicofluoride	Frog	sc	LD	375
		Guinea pig	or	LD	250
		Guinea pig	sc	LD	450
359	Camphor	Frog	sc	LD	3000-3400
		Mouse	sc	LD	2200-2400
		Rat	sc	MLD	2200 ²
		Rat	sc	MLD	1700 ³
		Rat	ip	LD ₅₀	900 ⁴
		Cat	ip	LD	400
360	Cantharidin	Rabbit	sc	LD	100
361	Capronitrile	Frog	sc	MLD	1600 ⁵
		Rabbit	sc	LD	0.25 cc ⁶
		Pigeon	im	MLD	290 ⁵
362	Captan	Rat	or	LD ₅₀	15,000
		Rat	ip	LD ₅₀	50-100
363	Carbamylcholine chloride	Mouse	or	LD ₅₀	15
		Mouse	sc	LD ₅₀	3
		Mouse	iv	LD ₅₀	0.3
		Rat	or	LD ₅₀	40
		Rat	sc	LD ₅₀	4
		Rat	iv	LD ₅₀	0.1
		Guinea pig	sc	LD	0.075
364	Carbarsone	Rat	or	LD ₅₀	510440 ⁷
		Rat	or	MLD	6500
		Rat	or	MLD	>7000
		Rat	im	MLD	400
		Rat	iv	MLD	300
		Rat	iv	MLD	1500

/1/ Anhydrous salt. /2/ 20% solution of natural camphor in olive oil. /3/ 20% solution of synthetic n-capronitrile. /7/ Trivalent analogue of Carbarsone: p-Carbamidophenylarsenous acid.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Fers. Comm. Food and Drug Adm. Ibid	353
		1 hr 1 hr	Ulrich, J. Pharm. Exp. Ther. <u>35</u> :1, 1929. Ibid	354
		1 hr 1 hr	Ulrich, J. Pharm. Exp. Ther. <u>35</u> : 1, 1929. Ibid Cole, J. Pharm. Exp. Ther. <u>71</u> :1, 1941. Flury, Abderhalden's Hdb. <u>4.7b</u> :1316. Ibid Ibid Ibid Ibid Ibid	355
			Simonin, C. rend. Soc. biol. <u>124</u> :133, 1937. Ibid Ibid	356
4,830-11,140			Smyth, unpublished data, Mellon Inst.	357
			Simonin, C. rend. Soc. biol. <u>124</u> :133, 1937. Ibid Ibid	358
	Par oil Olive oil Olive oil Olive oil Oil	24-36 hr 6 hr 42 hr	Fühner, Arch. exp. Path. Pharm. <u>166</u> :445, 1932. Ibid Christensen, J. Am. Pharm. Assoc. <u>26</u> :786, 1937. Ibid Sampson, J. Pharm. Exp. Ther. <u>65</u> :275, 1939. Flury, Abderhalden's Hdb. <u>4.7b</u> :1318. Flury, Abderhalden's Hdb. <u>4.7b</u> :1318.	359
			Verbrugge, Arch. int. pharmacod. <u>5</u> :161, 1899. Lang, Arch. exp. Path. Pharm. <u>34</u> :252, 1894. Meurice, Arch. int. pharmacod. <u>7</u> :11, 1900.	360 361
			Smyth, unpublished data, Mellon Inst. Ibid	362
		24 hr 24 hr 24 hr 24 hr 24 hr	Mollitor, J. Pharm. Exp. Ther. <u>58</u> :337, 1936. Ibid Ibid Ibid Ibid Ibid Kreitmair, Arch. exp. Path. Pharm. <u>164</u> :346, 1932.	363
	H ₂ O		Anderson, Fed. Proc. <u>5</u> :1, 1946. Gabalton, Am. J. Hyg. <u>23</u> :122, 1936. Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1938. Ibid Ibid Gabalton, Am. J. Hyg. <u>23</u> :122, 1936.	364

camphor in olive oil. /4/20% solution in olive oil. /5/Isocaproitrile. /6/Per animal;

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
365	Carbazole	Rat	or	LD ₅₀	>5000
366	Carbitol	Mouse	or	LD ₅₀	6600
		Mouse	or	LD ₅₀	6580
		Mouse	or	LD ₅₀	12,375
		Mouse	sc	LD ₅₀	2500-6000
		Mouse	ip	LD ₅₀	>2000
		Mouse	iv	LD ₅₀	4257
		Rat	or	LD ₅₀	6500-9770
		Rat	or	LD ₅₀	5540
		Rat	sc	LD ₅₀	6000
		Guinea pig	or	LD ₅₀	3670-4970
		Guinea pig	or	LD ₅₀	6580
		Rabbit	iv	LD ₅₀	2500
		Cat	sc	LD ₅₀ *	1500
		Cat	iv	LD ₅₀ *	4200
		Dog	iv	LD ₅₀	3000
367	Carbitol acetate	Rat	or	LD ₅₀	11,000
368	Carbitol solvent	Rat	or	LD ₅₀	9050
369	2-Carbomethoxy-5-acetaminofuran	Rat	or	LD ₅₀	1200
370	Carbon disulfide	Rabbit	sc	LD	300
371	Carbon tetrachloride	Mouse	or	LD ₅₀	12,800 ¹
		Mouse	sc	LD	32,000
		Rat	or	LD ₅₀	7460
		Rat	ct	LD ₅₀	6670
		Rabbit	or	LD	6380-9975
		Cat	sc	LD ₃₃	4785
		Dog	or	LD	4000
		Dog	or	LD	25,000
		Dog	iv	MLD	125
372	2-Carboxymethylmercaptobenzene- stibonic acid	Mouse	or	LD ₅₀	5000
		Mouse	sc	LD ₅₀	2520 ²
		Mouse	iv	LD ₅₀	965 ²
		Guinea pig	ip	LD ₅₀	350 ²
		Rabbit	iv	LD ₅₀	186 ²
		Hamster	ip	LD ₅₀	550 ²
373	Caronamide	Mouse	or	LD ₅₀	2450±219
		Mouse	sc	LD ₅₀	1650±103
		Mouse	iv	LD ₅₀	1405±40
		Rabbit	iv	LD	1320
		Dog	iv	LD	1575
374	Carvacrol	Frog	sc	LD	75
		Rabbit	or	LD	100
		Rabbit	sc	LD	1000
		Cat	or	LD	100

/1/Pure. /2/Calcium salt.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	365
5940-7630		3 hr	Hanzlik, J. Ind. Hyg. Tox. 29:190, 1947. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Latven, J. Pharm. Exp. Ther. 65:89, 1939. Hanzlik, J. Ind. Hyg. Tox. 29:190, 1947. Ibid	366
5330-5730		3 hr	Latven, J. Pharm. Exp. Ther. 65:89, 1939. Hanzlik, J. Ind. Hyg. Tox. 29:190, 1947. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Hanzlik, J. Ind. Hyg. Tox. 29:190, 1947. Ibid	
5940-7630			Laug, J. Ind. Hyg. Tox. 21:173, 1939. Hanzlik, J. Ind. Hyg. Tox. 29:190, 1947. Ibid Ibid Ibid	
10,400-11,590			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	367
8430-9720			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	368
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	369
			Lewin, Arch. path. anat. 78:113, 1879.	370
5730-9770 5070-8780		24 hr	Dybing, Acta. pharm. tox. 2:233, 1946. Fühner, Arch. exp. Path. Pharm. 97:86, 1923. Smyth, unpublished data, Mellon Inst. Ibid	371
	Oil	24 hr	Lamson, J. Pharm. Exp. Ther. 22:215, 1923. Cantarow, J. Pharm. Exp. Ther. 63:153, 1938. Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	
		30 min	Lamson, J. Pharm. Exp. Ther. 22:215, 1923. Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	
	G arabic H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O		Schnitzer, Arch. int. pharmacod. 85:100, 1951. Ibid Ibid Ibid Ibid Ibid	372
			Beyer, J. Pharm. Exp. Ther. 91:263, 1947. Ibid Ibid Ibid Ibid	373
			Kochmann, Arch. exp. Path. Pharm. 161:196, 1931. Ibid Ibid Ibid	374

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
375 Castrix	Rat	or	LD ₅₀ *	1.7
376 Catechol	Frog	sc	LD	160-180
	Mouse	sc	LD	140-160
	Mouse	ip	LD	31.3-2000
	Rat	or	LD ₅₀	3890
	Rat	sc	LD	200-250
	Guinea pig	sc	LD	200-250
	Guinea pig	ip	LD	150
	Rabbit	or	LD*	1000
	Dog	iv	LD	40-50
377 Caudoside	Cat	iv	LD ₅₀	0.9592
378 Ceepryn chloride	Mouse	ip	LD ₅₀ *	5-10
	Mouse	ip	LD ₅₀	10
	Rat	or	LD ₅₀	200
	Rat	sc	LD ₅₀	250
	Rat	ip	LD ₅₀	6
	Rat	ip	LD ₅₀ *	25
	Rat	iv	LD ₅₀	30
	Guinea pig	ip	LD ₅₀	15
	Guinea pig	ip	LD ₅₀ *	10
	Rabbit	or	LD ₆₆	500
	Rabbit	or	LD ₅₀	400
	Rabbit	sc	LD ₅₀	300
	Rabbit	ip	LD ₅₀ *	20-25
	Rabbit	ip	LD ₅₀	25
	Rabbit	iv	LD ₅₀	35
379 Celliamine	Rabbit	iv	LD	5-7
380 Cephalaine HCl	Rat	sc	LD	6.5
	Rat	ip	LD ₅₀	9.91
	Guinea pig	sc	LD	8
381 Cerium chloride	Frog	sc	LD	300-1000
	Mouse	sc	LD	1000-5000
	Rat	sc	LD	4000
	Rat	iv	MLD	87.5-105
	Guinea pig	sc	LD	1000-2000
382 Cesium bromide	Rat	ip	LD ₅₀	1400
383 Cesium chloride	Mouse	ip	LD ₅₀	1683
	Rat	ip	LD ₅₀	1500
384 Cesium hydroxide	Rat	ip	LD ₅₀	100
385 Cesium iodide	Rat	ip	LD ₅₀	1400
386 Cesium nitrate	Rat	ip	LD ₅₀	1200
387 Cevadine	Frog	sc	LD	15-30
	Frog	sc	LD	1.5
	Mouse	ip	LD ₅₀	3.5
	Rabbit	sc	LD	0.5-1.3

/1/ 5% solution.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	375
2080-7260		2-3 da Sev hr	Fühner, Arch. exp. Path. Pharm. 166:446, 1932.	376
			Ibid	
			Rpt. Chemother. Leukemia, So. Res. Inst.	
			Smyth, unpublished data, Mellon Inst.	
			Binet, Rev. méd. Suisse rom. 15:561, 1885.	
			Ibid	
			Chassevant, Arch. int. pharmacod. 14:93, 1905.	
			Boruttau, Dissert., Berlin, 1892.	
			Gibbs, Dubois' Arch. f. Physiol. p344, 1890.	
0.6310-1.923	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	377
			Warren, J. Pharm. Exp. Ther. 74:401, 1942.	378
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	
			Ibid	
			Ibid	
			Ibid	
			Warren, J. Pharm. Exp. Ther. 74:401, 1942.	
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	
			Ibid	
			Warren, J. Pharm. Exp. Ther. 74:401, 1942.	
			Ibid	
		1-6 da	Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	
		1-6 da	Warren, J. Pharm. Exp. Ther. 74:401, 1942.	
		6-96 hr	Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	
		30-35 min	Warren, J. Pharm. Exp. Ther. 74:401, 1942	
			Franzen, Arch. exp. Path. Pharm. 159:183, 1931.	379
	H ₂ O		Walters, J. Pharm. Exp. Ther. 10:73, 1917.	380
			Radomski, J. Pharm. Exp. Ther. 104:421, 1952.	
			Walters, J. Pharm. Exp. Ther. 10:73, 1917.	
			Flury, Abderhalden's Hdb. 4.7b:1320.	381
			Ibid	
			Ibid	
			Maxwell, J. Pharm. Exp. Ther. 43:61, 1931.	
			Flury, Abderhalden's Hdb. 4.7b:1320.	
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	382
			Alles, Univ. Cal. Publ. Pharmacol. 1:187, 1939.	383
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	384
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	385
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	386
2.7-4.4			Krayer, Physiol. Rev. 26:383, 1946.	387
			Ibid	
			Swiss, Proc. Soc. Exp. Biol. Med. 76:847, 1951.	
			Krayer, Physiol. Rev. 26:383, 1946.	

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
388	Cevine	Mouse	iv	LD ₅₀	87
		Rat	ip	LD ₅₀	67
389	Chelidonium sulfate	Frog	sc	LD	300-400
		Mouse	sc	LD	300-400
		Rat	sc	LD	300-400
		Guinea pig	sc	LD	300-400
		Rabbit	sc	LD	300-400
390	Chiniofon	Frog	sc	LD	240
		Mouse	sc	LD	630
		Rat	or	MLD	3000
		Rat	sc	MLD	600
		Rat	im	MLD	1000
		Rat	iv	MLD	500
		Guinea pig	or	LD ₅₀	900
		Rabbit	sc	LD	600 ¹
		Cat	sc	LD	360
391	Chloral acetamide	Rat	or	LD ₅₀	3100
392	Chloral hydrate	Frog	sc	LD	900-950
		Mouse	sc	LD	800-850
		Mouse	ip	MLD	600-700
		Rat	or	LD	1100 ²
		Rat	or	LD ₅₀	800
		Rat	or	LD	1500-2000
		Rat	or	LD ₅₀	500
		Rat	sc	LD	620
		Rabbit	or	LD	1400
		Rabbit	or	LD ₁₀₀	1300-1500
		Rabbit	sc	LD	1000
		Rabbit	rt	LD	1000
		Cat	or	LD ₂₅	500
		Cat	or	MLD	440
		Dog	or	LD ₈₀	1100
393	2-Chlorallylidene-3, 3-diacetate	Rat	or	LD ₅₀	320
		Rabbit	ct	LD ₅₀	980
394	Chloralose	Rat	or	LD ₁₀₀ [*]	400
		Rat	sc	LD ₁₀₀	200
		Rabbit	sc	LD	80
		Cat	or	LD [*]	600
		Cat	ip	LD [*]	150
		Dog	or	LD [*]	600
		Dog	iv	LD	120
395	Chlorcyclozine HCl	Mouse	ip	LD ₅₀	137
396	Chlordan(e)	Mouse	or	LD ₅₀	430
		Rat	or	LD ₅₀	200-250
		Rat	or	LD ₅₀	470
	(continued on next page)	Rat	or	LD ₅₀	590

/1/ Wide variation in experimental data. /2/ 3% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Krayer, J. Pharm. Exp. Ther. 82:167, 1944. Krayer, Physiol. Rev. 26:383, 1946.	388
			Hanzlik, J. Am. Med. Assoc. 75:1324, 1920. Ibid Ibid Ibid	389
			Schübel, Klin. Wochr. 318: 1924. Ibid Nelson, J. Pharm. Exp. Ther. 63:122, 1938. Schübel, Klin. Wochr. 318: 1924. Nelson, J. Pharm. Exp. Ther. 63:122, 1938. Ibid Anderson, Proc. Soc. Exp. Biol. Med. 28:484, 1931. Schübel, Klin. Wochr. 318: 1924. Ibid	390
			Finnegan, Fed. Proc. 10:294, 1951.	391
	H ₂ O	Sev hr 1 hr 30 min	Fühner, Arch. exp. Path. Pharm. 166:441, 1932. Ibid Franklin, J. Pharm. Exp. Ther. 42:1, 1931. Burtner, J. Pharm. Exp. Ther. 63:183, 1938. Adams, J. Pharm. Exp. Ther. 78:340, 1943. Bräutigam, Arztl. Forsch. 7:115, 1953. Finnegan, Fed. Proc. 10:294, 1951. Gros, Arch. exp. Path. Pharm. 182:348, 1936. Lendle, Arch. exp. Path. Pharm. 132:214, 1928. Adams, J. Pharm. Exp. Ther. 78:340, 1943. Lewin, Zschr. exp. Path. Ther. 18:61, 1916. Lendle, Arch. exp. Path. Pharm. 132:214, 1928. Adams, J. Pharm. Exp. Ther. 78:340, 1943. Sollmann, J. Am. Med. Assoc. 51:437, 1908. Adams, J. Pharm. Exp. Ther. 78:340, 1943.	392
210-500 680-1400			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	393
			Camus, C. rend. Soc. Biol. 54:268, 1902. Ibid Heffter, Berl. klin. Wochr. 30:475, 1893. Henriot, Arch. Int. Pharmacod. 3:191, 1897. Ibid Ibid	394
			Castillo, J. Pharm. Exp. Ther. 96:388, 1949.	395
	Olive oil Cot oil		Div. Pharm. F. & D. Adm. Q. Rpt. 3, March 1947. Stohman, Arch. Ind. Hyg. Occ. Med. 1:13, 1950. Div. Pharm. F. & D. Adm. Q. Rpt. 3, March 1947. Ambrose, Fed. Proc. 12:298, 1953.	396

	Compound	Animal	Route	Dose	Dosage mg/ kg
					Value
396	Chiordan(e) (concluded)	Rat Rabbit Rabbit Rabbit Rabbit	ip or or ct iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₇₄	200 300 100 <780 20
397	Chlorethamine	Rat	im	LD ₅₀	150
398	Chloretone	Frog Rabbit Dog	sc or or	MLD MLD MLD	800 213 238
399	Chloroacetic acid	Mouse Rat Guinea pig	or or or	LD ₅₀ LD ₅₀ LD ₅₀	255 76 80
400	4-Chloro-2-aminobenzothiazole	Mouse Mouse	or iv	LD ₅₀ LD ₅₀	2400±145 71±2
401	5-Chloro-2-aminobenzothiazole	Mouse	iv	LD ₅₀	92±6
402	6-Chloro-2-aminobenzothiazole	Mouse Mouse	or iv	LD ₅₀ LD ₅₀	398±113 76±4
403	7-Chloro-2-aminobenzothiazole	Mouse	iv	LD ₅₀	77±5
404	Chloroarsen	Mouse	ip	LD ₅₀	41±1.8
405	N-(p-Chlorobenzhydryl)-N-methyl-piperazine HCl	Mouse Mouse Mouse Mouse Rat Guinea pig Cat Dog	or sc ip iv ip ip ip ip	LD ₅₀ LD ₅₀ LD ₅₀ * LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	300 200 100 35 100 100 75 125-150
406	(3-m-Chlorobenzoxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	11.0±2.2
407	(3-p-Chlorobenzoxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	13.75±2.0
408	1-Chlorobutane	Rat	or	LD ₅₀	2670
409	p-Chloro-m-cresol	Mouse Mouse Rat	sc iv sc	LD ₅₀ LD ₅₀ LD ₅₀	360 70 400
410	3-Chloro-6-dimethylamino-4,4-diphenylheptane	Mouse	sc	LD ₅₀	325
411	2-Chloroethylacrylate	Rat	or	LD	180
412	2-Chloroethyl vinyl ether	Rat	or	LD ₅₀ LD ₅₀	210 2410

Dosage mg/kg	Vehicle	Time of Drath	Reference	
Range				
	Olive oil Olive oil Tween 20		Stohlman, Arch. Ind. Hyg. Occ. Med. <u>1</u> :13, 1950. Ibid Ibid Lehman, Q. Bull. Assoc. F. & D. Off. No. 3, 1952. Stohlman, Arch. Ind. Hyg. Occ. Med. <u>1</u> :13, 1950.	396
			Boyd, Exp. Med. Surg. <u>4</u> :223, 1951.	397
			Impens, Arch. int. pharmacod. <u>8</u> :77, 1901. Ibid Ibid	398
196-334 70.7-82.2 71.8-88.6		36 hr 36 hr 36 hr	Woodard, J. Ind. Hyg. Tox. <u>23</u> :78, 1941. Ibid Ibid	399
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952. Ibid	400
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	401
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952. Ibid	402
			Domino, J. Pharm. Exp. Ther. <u>105</u> :486, 1952.	403
			Beck, Proc. Soc. Exp. Biol. Med. <u>78</u> :392, 1951.	404
			Roth, Arch. int. pharmacod. <u>80</u> :378, 1949. Ibid Ibid Ibid Ibid Ibid Ibid	405
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950.	406
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950.	407
2320-3060			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954.	408
		5-10 min	Wien, Q. J. Pharm. Pharmacol. <u>12</u> :212, 1939. Ibid Ibid	409
			Eddy, J. Pharm. Exp. Ther. <u>98</u> :121, 1950.	410
			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951.	411
180-250 1970-2940			Smyth, unpublished data, Mellon Inst. Ibid	412

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
413	Chloroform	Mouse Rat Rabbit Rabbit Dog Dog	sc or or sc or iv	LD LD ₅₀ LD LD* MLD MLD	909 2180 9827 900-1000 2250 90
414	p-Chloromercuribenzoate	Mouse	sc	LD ₅₀	75.9±2.7
415	Chloro-β-naphthol	Mouse	sc	LD	540
416	1-Chloro-1-nitroethane	Rabbit	or	MLD	100-150
417	1-Chloro-1-nitropropane	Rat	or	LD	50-100
418	2-Chloro-2-nitropropane	Rabbit	or	LD	500-750
419	m-Chlorophenol	Frog Rat Rat Rabbit	sc or sc iv	LD LD LD LD	250 570 ¹ 1390 ¹ 65
420	o-Chlorophenol	Frog Rat Rat Rabbit	sc or sc iv	LD LD LD LD	400 670 ² 950 ² 120
421	p-Chlorophenol	Frog Mouse Rat Rat Rabbit Rabbit	sc sc or sc sc iv	LD MLD LD LD LD LD	150 60 67 ³ 1030 ² 950 65
422	3-(p-Chlorophenyl)-1,1-dimethylurea	Rat	or	LD ₅₀ *	3500
423	Chlorophyllin	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	400 285
424	Chloropicrin	Rabbit Rabbit Cat	ip iv sc	LD MLD LD*	500 10 ⁴ 10
425	1-Chloro-2-propanol	Rabbit	ct	LD ₅₀	480
426	1-Chloropropene	Rat	or	LD ₅₀	1950
427	2-Chloropropylidimethylamine	Mouse	sc	LD ₅₀	200
428	Chlorostyrene	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	5200 20,000
429	Chlorethion	Rat Rat	or ip	LD ₅₀ * LD ₅₀ *	1500 750
430	2-Chloro-1,1,3-triethoxypropane	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	1320 8000
431	2-Chloro-1,1,2-trifluoroethylmethyl ether	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	5130 200
432	Chlorprophenpyridamine	Mouse	ip	LD ₅₀	150

/1/ 20% solution in olive oil. /2/ 50% solution in olive oil. /3/ 25% solution in olive oil.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
1140-4220	Oil G acacia Olive oil	5 hr 2 da 24 hr 24 hr 30 min	Fühner, Arch. exp. Path. Pharm. 97:86, 1923. Smyth, unpublished data, Mellon Inst. Fühner, Arch. exp. Path. Pharm. 97:86, 1923. Althausen, Arch. Int. Med. 50:257, 1932. Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934. Ibid	413
		48 hr	Beck, Proc. Soc. Exp. Biol. Med. 78:392, 1951.	414
			Bechold, Zachr. Hyg. Infkr. 64:113, 1909.	415
			Machle, J. Ind. Hyg. Tox. 27:95, 1945.	416
			Machle, J. Ind. Hyg. Tox. 27:95, 1945.	417
			Machle, J. Ind. Hyg. Tox. 27:95, 1945.	418
	Olive oil Olive oil		Kuroda, Arch. exp. Path. Pharm. 112:60, 1926. Deichmann, Fed. Proc. 2:76, 1943. Ibid Kuroda, Arch. exp. Path. Pharm. 112:60, 1926.	419
	Olive oil Olive oil		Kuroda, Arch. exp. Path. Pharm. 112:60, 1926. Deichmann, Fed. Proc. 2:76, 1943. Ibid Kuroda, Arch. exp. Path. Pharm. 112:60, 1926.	420
	Olive oil Olive oil		Kuroda, Arch. exp. Path. Pharm. 112:60, 1926. Klarmann, J. Lab. Clin. Med. 19:835, 1934. Deichmann, Fed. Proc. 2:76, 1943. Ibid Karpow, Arch. sc. biol. St. Petersburg 2:304, 1893. Kuroda, Arch. exp. Path. Pharm. 112:60, 1926.	421
			Bucha, Science 114:493, 1951.	422
			Heinrichs, Arzneimittelforsch. 4:19, 1954. Ibid	423
	H ₂ O Alcohol	1/3-2 hr 6 da	Mayer, C. rend. Acad. sc. 171:1396, 1920. Gildemeister, Zachr. ges. exp. Med. 13:291, 1921. Ibid	424
340-670			Smyth, unpublished data, Mellon Inst.	425
1400-2720			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	426
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	427
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	428
			DaBois, Arch. Ind. Hyg. Occ. Med. 8:350, 1953. Ibid	429
			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	430
3910-6743			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	431
143-157			Way, J. Pharm. Exp. Ther. 104:115, 1952.	432

/4/ Emulsion.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
433	Cholic acid	Frog	sc	LD*	1600
434	Choline	Frog	sc	LD	2500
		Mouse	sc	LD	700
		Rabbit	sc	LD	500
		Cat	sc	LD	400-500
		Cat	iv	LD	35
435	Choline chloride	Mouse	ip	LD	31.3
436	Chromic acetate	Frog	iv	MLD	6185
		Mouse	iv	M.L.D	2290
		Rabbit	iv	MLD	1604
437	Chromic chloride	Frog	iv	MLD	187
		Mouse	iv	MLD	801
		Rabbit	iv	MLD	288
438	Chromium sulfate	Frog	iv	MLD	37
		Mouse	iv	MLD	246.8
		Rabbit	iv	MLD	215
439	Chromium trioxide	Dog	sc	LD	330
440	Cicutoxin	Cat	or	LD	7
		Cat	iv	LD	50
441	Cinchonidine	Rat	ip	LD ₅₀	206
442	Cinchonine	Frog	sc	MLD	200
		Mouse	sc	MLD	400
		Rat	ip	LD ₅₀	152
443	Cinchophen	Frog	sc	MLD	228
		Guinea pig	sc	MLD	900
		Rabbit	or	MLD	1000
		Rabbit	sc	MLD	950
		Dog	or	MLD	1250
		Dog	sc	MLD	620
444	Cinchophen sodium	Frog	sc	LD	>1333
		Mouse	sc	LD ₅₀	1000
		Guinea pig	sc	MLD	900
		Rabbit	or	LD	1000
		Rabbit	sc	MLD	950
		Cat	or	LD	977
		Cat	sc	LD	977
		Dog	or	LD	977
		Dog	sc	MLD	620
445	(3-Cinnamoxyphenyl)trimethyl- ammonium bromide	Mouse	iv	LD ₅₀	11.2±0.45
446	Cis-bicyclo(2,2,1-heptene-2,3- dicarboxylic acid)methyl ester	Mouse	or	LD ₅₀	1.4 cc
		Rat	or	LD ₅₀	1 cc
447	Citraconic anhydride	Rat	or	LD ₅₀	2600
		Guinea pig	ct	LD ₅₀	1000

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Flury, Abderhalden's Hdb. 4.7b:1350.	433
			Trendelenburg, Heffter's Hdb. 1.1:593. Flury, Abderhalden's Hdb. 4.7b:1329. Trendelenburg, Heffter's Hdb. 1.1:593. Ibid Ibid	434
			Rpt. Chemother. Leukemia, So. Res. inst.	435
		24 hr	Cavalli, Arch. int. pharmacod. 62:330, 1939. Ibid Ibid	436
		10 da	Cavalli, Arch. int. pharmacod. 62:330, 1939. Ibid Ibid	437
		24 hr 24 hr 1 hr	Cavalli, Arch. int. pharmacod. 62:330, 1939. Ibid Ibid	438
		4 hr	Eichler, Heffter's Hdb. 3.3:1521.	439
			Flury, Abderhalden's Hdb. 4.7b:1330. Ibid	440
			Johnson, Acta. pharm. tox. 4:265, 1949.	441
			Bonemann, Arch. exp. Path. Pharm. 205:129, 1948. Ibid Johnson, Acta. pharm. tox. 4:265, 1949.	442
		8 hr	Rotter, Zschr. exp. Path. 19:176, 1918. Risi, Arch. int. pharmacod. 42:117, 1932. Fuerth, J. Pharm. Exp. Ther. 38:71, 1930. Risi, Arch. int. pharmacod. 42:117, 1932. Barbour, J. Lab. Clin. Med. 8:217, 1923. Risi, Arch. int. pharmacod. 42:117, 1932.	443
			Flury, Abderhalden's Hdb. 4.7b:1310. Haeper, Arch. Path. 41:592, 1946. Risi, Arch. int. pharmacod. 42:117, 1932. Flury, Abderhalden's Hdb. 4.7b:1310. Risi, Arch. int. pharmacod. 42:117, 1932. Flury, Abderhalden's Hdb. 4.7b:1310. Ibid Ibid Risi, Arch. int. pharmacod. 42:117, 1932.	444
			Randall, J. Pharm. Exp. Ther. 99:16, 1950.	445
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	446
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid	447

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
448 Citric acid	Mouse	ip	LD ₅₀	1050
	Mouse	iv	LD ₅₀	46.2 ¹
	Rat	ip	LD ₅₀	975
	Rabbit	iv	LD ₅₀	360 ²
449 Cobaltous chloride, CoCl ₂ ·6H ₂ O	Frog	sc	LD	150-200
	Mouse	sc	MLD	100-120
	Rabbit	sc	MLD	200
450 Cobaltous nitrate, Co(NO ₃) ₂ ·6H ₂ O	Frog	sc	LD	150
	Frog	sc	LD	1000
	Rabbit	or	LD	250 ³
	Rabbit	sc	LD	200-400
	Rabbit	sc	LD	75 ³
	Pigeon	im	LD	50-100
451 Cobra venom ⁴	Rat	im	LD	2
	Rabbit	sc	LD	0.25
	Rabbit	iv	MLD	0.15
	Cat	sc	LD	0.0035
	Cat	im	LD	1.5-2.0
	Cat	iv	LD	0.0015
	Cat	im	LD	0.5-1.0
	Pigeon	im	LD	0.5
452 Cocaine	Frog	sc	MLD	660
	Mouse	sc	MLD	189
	Mouse	sc	MLD	150
	Mouse	sc	LD	100
	Mouse	iv	MLD	30
	Rat	sc	LD ₅₀	250
	Rat	ip	LD ₅₀	70
	Rat	iv	LD ₅₀	17.5
	Rat	iv	LD	12.5
	Guinea pig	sc	MLD	50
	Guinea pig	ip	MLD	60
	Guinea pig	iv	MLD	20
	Rabbit	sc	MLD	126
	Rabbit	iv	LD ₅₀	17
	Cat	sc	MLD	31.9
	Cat	iv	MLD	14.6
	Dog	sc	MLD	35
453 Codeine HCl	Mouse	sc	LD ₅₀	300
	Guinea pig	or	MLD	120
	Rabbit	or	LD ₁₀₀	100
	Rabbit	sc	LD ₅₀	32
	Dog	sc	LD [*]	200
454 Codeine phosphate	Rabbit	or	MLD	100
	Rabbit	sc	LD	100
455 Colchicine	Mouse	ip	LD ₅₀	84

/1/ Rapid injection. /2/ Slow injection. /3/ Anhydrous. /4/ Toxicity of venom varies

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Gruber, J. Pharm. Exp. Ther. 94:65, 1948. Ibid Ibid Ibid	448
		24 hr 3 hr	Hendrych, Heffter's Hdb. 3.2:1444. Ibid Ibid	449
		48 hr 1 hr	Hendrych, Heffter's Hdb. 3.2:1444 Ibid Flury, Abderhalden's Hdb. 4.7b:1331. Ibid Ibid Ibid	450
		4-12 hr 24 hr 2-4 hr 4-12 hr 4-8 hr	Chopra, Ind. J. M. Res. 18:1113, 1931. Cushny, Philos. Tr. Roy. Soc. Lond. 208B:1, 1916. Ibid Epstein in Chopra, Ind. J. M. Res. 18:1113, 1931. Chopra, Ind. J. M. Res. 18:1113, 1931. Epstein in Chopra, Ind. J. M. Res. 18:1113, 1931. Chopra, Ind. J. M. Res. 18:1113, 1931. Ibid	451
			Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Rose, J. Lab. Clin. Med. 15:731, 1930. Fromherz, Arch. exp. Path. Pharm. 158:368, 1930. Bacharach, Q. J. Pharm. Pharmacol. 14:356, 1941. Rose, J. Lab. Clin. Med. 15:731, 1930. Ibid Ibid Hooper, Am. J. Physiol. 68:120, 1924. Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid Ibid Rose, J. Lab. Clin. Med. 15:731, 1930. Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid	452
			Eddy, J. Pharm. Exp. Ther. 67:127, 1939. Flury, Abderhalden's Hdb. 4.7b:1334. Ibid Eddy, J. Pharm. Exp. Ther. 67:127, 1939. Flury, Abderhalden's Hdb. 4.7b:1334.	453
			Flury, Abderhalden's Hdb. 4.7b:1334. Ibid	454
	G acacia	10-13 ds	Goldberg, Cancer 3:124, 1950.	455

for different samples and cobra species.

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
456 Colchicine	Frog	sc	LD	1.2-2.0
	Frog	sc	LD	20
	Mouse	or	LD	66.5
	Mouse	sc	LD	3.0-3.5
	Mouse	sc	LD ₅₀	3.10±0.2 ¹
	Mouse	sc	LD ₅₀	2.32±0.2 ²
	Mouse	sc	LD ₅₀	3.8
	Mouse	ip	MLD	1.3
	Mouse	ip	LD ₅₀	3.5
	Mouse	ip	LD ₅₀	3.5
	Rat	sc	LD ₅₀	4±1
	Rat	iv	LD ₅₀	1.7
	Rabbit	sc	MLD	5-10
	Rabbit	iv	MLD	5-6
	Cat	or	LD	0.125
	Cat	sc	LD	0.57-1.0
	Cat	iv	LD ₅₀	0.25
	Dog	or	LD	0.125
	Dog	sc	LD	0.571
	Chicken	sc	MLD	0.0015
457 Columbium chloride	Rat	ip	LD ₅₀	40 ³
458 Congo red	Rat	iv	LD ₅₀	190
	Rabbit	iv	LD ₅₀	250
	Cat	iv	LD ₅₀ [*]	125
	Pigeon	iv	LD ₅₀	150
459 Conhydrine	Guinea pig	sc	LD	>400
460 7-Coniceine	Guinea pig	sc	LD	150
461 Conine	Frog	sc	LD	15-20
	Mouse	sc	LD	75 ⁴
	Guinea pig	or	LD	150
	Guinea pig	sc	LD	40
	Guinea pig	sc	LD	50
	Rabbit	or	LD	56
	Rabbit	sc	LD	25
	Rabbit	sc	LD	90
	Rabbit	iv	LD	15-20 ⁵
	Dog	sc	LD	50 ⁵
	Pigeon	sc	LD	>40 ⁴
462 Convallamarin	Frog	or	MLD	200
	Frog	sc	MLD	15
	Mouse	sc	MLD	600
	Guinea pig	iv	LD	40
	Rabbit	or	LD	320-1500
	Rabbit	sc	LD	10-40
	Rabbit	iv	LD	6-40

(continued on next page)

/1/ At 25°-35° C. /2/ At 4° C. /3/ 50% solution in H₂O. /4/ Hydrochloride. /5/ Hydro-

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
	N saline	12-15 hr 3-13 da 1-2 da	Flury, Abderhalden's Hdb. 4.7b:1337. Arvy, C. rend. Soc. biol. 134:452, 1940. Goldberg, Cancer 3:124, 1950. Fühner, Arch. exp. Path. Pharm. 166:437, 1932. Streicher, Proc. Soc. Exp. Biol. Med. 76:536, 1951. Ibid Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Rpt. Chemother. Leukemia, So. Res. Inst. Goldberg, Cancer 3:124, 1950. U. of Chicago Toxic. Lab. Rpt. 23. Santovy, Arch. int. pharmacod. 84:257, 1950. Ferguson, J. Pharm. Exp. Ther. 106:261, 1952. Maurel, C. rend. Soc. biol. 67:768, 1909. Ibid Flury, Abderhalden's Hdb. 4.7b:1337. Ibid Ferguson, J. Pharm. Exp. Ther. 106:261, 1952. Flury, Abderhalden's Hdb. 4.7b:1337. Ibid Arvy, C. rend. Soc. biol. 134:452, 1940.	456
	H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	457
			Richardson, Am. J. Med. Sc. 198:73, 1939 Ibid Ibid Ibid	458
			Albahary, C. rend. Acad. sc. 147:996, 1908.	459
		10 min	Albahary, C. rend. Acad. sc. 147:996, 1908.	460
		10-28 min 29 min 15-40 min	Gürber, Arch. Anat. Physiol. 401, 1890. Flury, Abderhalden's Hdb. 4.7b:1337. Thaddeus, Arch. exp. Path. Pharm. 162:385, 1931. Ibid. Albahary, C. rend. Acad. sc. 147:996, 1908 Hadra, Dissert., Hamburg 1936. Ibid Granger, Ber. deut. chem. Ges. 30:1060, 1897. Flury, Abderhalden's Hdb. 4.7b:1337. Ibid Ibid	461
			Flury, Abderhalden's Hdb. 4.7b:1338. Ibid Lendle, Heffter's Hdb. E.1:78. Ibid Ibid Ibid Ibid	462

bromide.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
462	Convallamarin (concluded)	Cat Pigeon Pigeon	iv or sc	LD MLD MLD	1.7 100 3
463	Convallarin	Frog Mouse Guinea pig Rabbit Rabbit Rabbit	sc sc iv or sc iv	LD LD LD LD LD LD	0.7 70 5 2000 4 1.5
464	Convallatoxin	Frog Cat	iv iv	MLD MLD	0.3 0.077
465	Convallotoxol	Cat	iv	LD ₅₀	0.0869
466	Copellidine	Frog	sc	LD	375
467	Copper carbonate	Rat	or	LD ₅₀ *	159
468	Copper chloride	Rat Guinea pig	or sc	LD ₅₀ * LD	140 100
469	Copper nitrate	Rat	or	LD ₅₀	940
470	Copper sulfate	Frog Mouse Rat Guinea pig Rabbit	iv iv cr iv iv	LD LD LD ₅₀ * LD LD	25-37 50 300 2 4-5
471	Coramine	Frog Frog Mouse Rat Rat Rat Rat Guinea pig Guinea pig Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Dog Dog	sc sc sc sc sc ip ip sc ip or sc sc ip iv iv im iv	LD LD LD MLD LD ₅₀ LD LD ₅₀ LD LD LD LD LD LD ₅₀ MLD LD LD LD	1000 2000 295 470 240 450 300 300 250 650 300-400 400 225 150 250 150-200 150-200
472	Corchoroside A	Cat	iv	LD ₅₀	0.0768
473	Corchoroside B	Cat	iv	LD ₅₀	0.1415
474	Coryamyrtn (continued on next page)	Frog Mouse Rat	sc iv sc	MLD MLD MLD	10 1.1 1

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Lendle, Heffter's Hdb. E. 1:78. Flury, Abderhalden's Hdb. 4. 7b:1338. Ibid	462
			Lendle, Heffter's Hdb. E. 1:78. Ibid Ibid Ibid Ibid	463
			Lendle, Heffter's Hdb. E. 1:78. Ibid	464
0.0597-0.1050	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	465
			Gürber, Arch. Anat. Physiol. 401, 1890.	466
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	467
		5-8 hr	Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Sellei, Biochem. Zachr. 49:466, 1913.	468
610-1430			Smyth, unpublished data. Mellon Inst.	469
			Eichholtz, Heffter's Hdb. 3.3:1967. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Eichholtz, Heffter's Hdb. 3.3:1967. Ibid	470
			Hildebrandt, Heffter's Hdb. E. 5:1939. Lagier, Thèse, Genève 1922. Behrens, Klin. Wochr. 12:1860, 1933. Albus, Arch. exp. Path. Pharm. 182:471, 1936. Brasda, Proc. Soc. Exp. Biol. Med. 62:19, 1946. Kohn, Arch. exp. Path. Pharm. 179:448, 1935. Hildebrandt, Heffter's Hdb. E. 5:1939. Ibid Ibid Ibid Ibid Lagier, Thèse, Genève 1922. Hildebrandt, Heffter's Hdb. E. 5:1939. Werner, J. Pharm. Exp. Ther. 66:260, 1939. Lagier, Thèse, Genève 1922. Hildebrandt, Heffter's Hdb. E. 5:1939. Ibid	471
0.0522-0.1054	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	472
0.0752-0.1815	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	473
			Swanson, J. Pharm. Exp. Ther. 57:410, 1936. Ibid Ibid	474

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
474 Coryamyrтин (concluded)	Rat	iv	MLD	0.7
	Rabbit	sc	MLD	1.2
	Rabbit	iv	MLD	0.4
475 Corynantheine	Mouse	iv	MLD	35.8 ¹
	Mouse	iv	MLD	75.3 ²
	Guinea pig	ip	LD ₅₀	150
476 Corynantheine tartrate ³	Guinea pig	ip	LD ₅₀	83
477 Corynanthine HCl	Mouse	iv	MLD	76.7
	Guinea pig	ip	LD ₅₀	158
478 Corynanthine tartrate	Guinea pig	ip	LD ₅₀ [*]	75
479 Cotoin(e)	Frog	sc	LD	8
480 m-Cresol	Frog	sc	LD	250
	Mouse	sc	LD	450
	Mouse	ip	LD ₅₀	168
	Rat	or	LD ₅₀	2020
	Rat	sc	LD	900
	Guinea pig	sc	LD	300-400
	Guinea pig	ip	LD	100
	Rabbit	or	LD	1400 ⁴
	Rabbit	sc	LD	500-600
	Rabbit	iv	LD	280 ⁵
	Cat	sc	LD	180 ⁶
	Dog	iv	LD	150
481 o-Cresol	Frog	sc	LD	200
	Mouse	sc	LD	350
	Rat	or	LD ₅₀	1350
	Rat	sc	LD	650
	Guinea pig	sc	LD	350-400
	Guinea pig	ip	LD	350
	Rabbit	or	LD	940 ⁷
	Rabbit	iv	LD	180 ⁵
	Rabbit	sc	LD	450-500
	Cat	sc	LD	55 ⁶
	Dog	iv	LD	80
482 p-Cresol	Frog	sc	LD	150
	Mouse	sc	LD	150
	Mouse	ip	LD ₅₀	24.8
	Rat	or	LD ₅₀	1800
	Rat	sc	LD	500
	Guinea pig	sc	LD	200-300
	Guinea pig	ip	LD	100
	Rabbit	or	LD	620 ⁷
	Rabbit	sc	LD	300-400
	Rabbit	iv	LD	180 ⁵
	Cat	sc	LD	80 ⁶

/1/ Base. /2/ Hydrochloride. /3/ Crystalline. /4/ 20% solution in H₂O. /5/ 0.5% solu-

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Swanson, J. Pharm. Exp. Ther. 57:410, 1936. Ibid Ibid	474
			Röthlin, Arch. exp. Path. Pharm. 178:305, 1935. Ibid Hamet, C. rend. Soc. biol. 146:1042, 1952.	475
			Hamet, C. rend. Soc. biol. 146:1042, 1952.	476
			Röthlin, Arch. exp. Path. Pharm. 178:305, 1935. Hamet, C. rend. Soc. biol. 146:1042, 1952.	477
			Hamet, C. rend. Soc. biol. 146:1042, 1952.	478
			Jodlbauer, Biochem. Zschr. 74:340, 1916.	479
		12-24 hr	Tollens, Arch. exp. Path. Pharm. 52:220, 1905. Ibid Harvey, Q. J. Pharm. Pharmacol. 5:497, 1953. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944 Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Chassevant, Arch. int. pharmacod. 14:93, 1905. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Binet, Rev. méd. Suisse rom. 15:561, 1895. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Ibid Gibbs, Dubois' Arch. f. Physiol. Suppl. p271, 1889.	480
	H ₂ O H ₂ O Olive oil	6-8 hr 4 hr 2-12 hr 15 hr 27 hr		
			Tollens, Arch. exp. Path. Pharm. 52:220, 1905. Ibid Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Chassevant, Arch. int. pharmacod. 14:93, 1905. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Ibid Binet, Rev. méd. Suisse rom. 15:561, 1895. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Gibbs, Dubois' Arch. f. Physiol. Suppl. p271, 1889.	481
	H ₂ O H ₂ O Olive oil	70 min 4 hr 8 hr <2-3 hr 60 hr		
			Tollens, Arch. exp. Path. Pharm. 52:220, 1905. Ibid Harvey, Q. J. Pharm. Pharmacol. 5:497, 1953. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944 Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Chassevant, Arch. int. pharmacod. 14:93, 1905. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Binet, Rev. méd. Suisse rom. 15:561, 1895. Deichmann, J. Pharm. Exp. Ther. 80:233, 1944. Ibid	482
	H ₂ O H ₂ O Olive oil	6-22 hr 4 hr 12-36 hr 14 hr 120 hr		

tion in H₂O. /6/ 10% solution in olive oil. /7/ 20% emulsion in H₂O.

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
483 Crotonaldehyde	Mouse	sc	LD ₅₀	160
	Rat	or	LD ₅₀	300
	Rat	sc	LD ₅₀	140
	Rabbit	ct	LD ₅₀	380
484 Crotonamide	Rat	or	LD ₅₀	2830
485 Crotonic acid	Rat	or	LD ₅₀	1000
	Guinea pig	ct	LD ₅₀	600
486 Crotonic acid vinyl ester	Rat	or	LD ₅₀	6500
487 Cryolite	Rat	or	LD ₅₀ *	200
488 Cryptenamine ¹	Mouse	iv	LD ₅₀	0.64 ²
	Mouse	iv	LD ₅₀	0.6 ³
489 Crystal violet	Mouse	ip	LD ₁₀₀	20
	Mouse	iv	LD ₇₅ *	20
	Rat	ip	LD ₇₅ *	15
	Guinea pig	ip	LD ₁₀₀	10
490 Cumene	Rat	or	LD ₅₀	2910
491 Cumertilin	Mouse	sc	LD ₅₀	83±3
	Mouse	iv	LD ₅₀	41±2
	Rat	or	LD ₅₀	238±11
	Rat	im	LD ₅₀	12.3±0.5
	Rat	iv	LD ₅₀	9.8±0.08
	Rabbit	im	LD ₅₀	13±1
	Rabbit	iv	LD ₅₀	7.4±1.4
492 Curare	Rat	sc	LD	20-25
	Rabbit	or	LD	266-333
	Rabbit	sc	LD	2.6-3.3
	Rabbit	iv	LD ₅₀	1.3
	Dog	iv	LD ₅₀	1.2
493 Curarine	Frog	sc	LD	8.4
	Mouse	sc	LD	0.38-0.41
	Mouse	sc	LD ₅₀	0.6±0.02
	Mouse	sc	LD ₅₀	0.7±0.1 ⁴
	Mouse	sc	LD ₅₀	1.25
	Mouse	ip	LD ₅₀	0.5±0.034
	Mouse	iv	LD ₅₀	0.18±0.01
	Mouse	iv	LD	0.10-0.125
	Mouse	iv	LD ₅₀	0.2
	Mouse	iv	LD ₅₀	0.136
	Guinea pig	sc	MLD	0.09-0.11
	Rabbit	sc	MLD	0.34
	Rabbit	iv	MLD	0.08-0.12
	Rabbit	iv	LD ₅₀	0.187±0.012
	Rabbit	iv	LD ₅₀	0.16-0.25
	Cat	sc	MLD	0.34

(continued on next page)

/1/ An alkaloid of Veratrum. /2/ Second fraction. /3/ Third fraction. /4/ Curarine chloride. 1948.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
270-520		24 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, J. Ind. Hyg. Tox. 26:269, 1944.	483
2320-3440		24 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	
			Smyth, unpublished data, Mellon Inst.	484
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid	485
4950-8530			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	486
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	487
			O'Dell, Proc. Soc. Exp. Biol. Med. 85:400, 1954. Ibid	488
			Anderson, Proc. Soc. Exp. Biol. Med. 31:825, 1934. Ibid Ibid Ibid	489
2500-3320			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	490
			Blumberg, J. Pharm. Exp. Ther. 105:336, 1952. Ibid Ibid Ibid Ibid Ibid	491
			Boldyreff, J. Pharm. Exp. Ther. 46:407, 1932. Fühner, Arch. exp. Path. Pharm. 61:284, 1909. Ibid Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid	492
			Flury, Abderhalden's Hdb. 4.7b:1339. Ibid Hoppe, J. Pharm. Exp. Ther. 100:333, 1950. Ibid Bovet & Bovet-Nitti. ⁵ Berger, J. Pharm. Exp. Ther. 93:362, 1948. Hoppe, J. Pharm. Exp. Ther. 100:333, 1950. Everett, J. Pharm. Exp. Ther. 92:236, 1948. Bovet & Bovet-Nitti. ⁵ Pelikan, Proc. Pharm. Soc. Fall Meet. p64, 1951. Flury, Abderhalden's Hdb. 4.7b:1339. Ibid Ibid Hoppe, J. Pharm. Exp. Ther. 100:333, 1950. Bovet & Bovet-Nitti. ⁵ Flury, Abderhalden's Hdb. 4.7b:1339.	493

/5/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York: S. Karger.

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
493 Curarine (concluded)	Dog	sc	LD ₅₀	0.5
	Dog	sc	MLD	0.34
	Pigeon	im	MLD	0.618
494 Cyanine ²	Mouse	or	LD ₅₀	7.9 ³
	Rat	or	LD ₅₀	161 ³
495 Cyanogen chloride	Mouse	sc	LD	39.07
	Rabbit	sc	LD	20.036
	Pigeon	sc	LD	43.53
496 Cyanogen iodide	Frog	sc	LD	111-143
	Mouse	sc	LD	27-36
	Rat	sc	LD	44
	Rabbit	or	LD	23.5
	Rabbit	sc	LD	19-40
	Rabbit	iv	LD	15
	Cat	or	LD	18
	Cat	sc	LD	23
	Dog	sc	LD	19-30
497 Cyanomethyl acetate	Rat	or	LD ₅₀	32
	Rabbit	ct	LD ₅₀	43
498 Cyanomethyl butyrate	Rat	or	LD ₅₀	120
499 Cyclethrin	Rat ♂	or	LD ₅₀	1400-2800 ⁴
	Rat ♂	or	LD ₅₀	3300-4900 ⁵
	Rabbit	ct	LD ₅₀	10,000
500 Cyclohexane	Rabbit	or	MLD	5500-6000
	Rabbit	iv	LD	77
501 Cyclohexanecarboxylic acid-1-hydroxycyclophenyl ester	Mouse	or	LD ₅₀	3.2
	Rat	or	LD ₅₀	2.6
502 Cyclohexanol	Rat	or	LD ₅₀	2060
	Rabbit	or	MLD	2200-2600
	Rabbit	ct	MLD	12,400-22,700
	Rabbit	ip	LD	1420
503 Cyclohexanone	Mouse	ip	MLD	1300-1500
	Rat	or	LD ₅₀	3460
	Rabbit	or	MLD	1600-1900
	Rabbit	ct	MLD	10,200-23,000
504 β-6-1, 2-Cyclohexenylisopropylamine	Mouse	ip	LD	90
505 Cyclohexylacetoacetate	Mouse	or	LD ₅₀	7.2 cc
506 Cyclohexylamine	Rat?	ip	LD ₅₀	200
507 DL-1-Cyclohexyl-2-aminopropane HCl	Rat	ip	LD ₅₀	65
	Guinea pig	ip	LD ₅₀	50-70
	Rabbit	ip	LD ₅₀	100-115
508 Cyclohexylammonium formate	Rat?	ip	LD ₅₀	580
509 Cyclohexylammonium stearate	Rat?	ip	LD ₅₀	4000

/1/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York: S. Karger.
/5/ 20% solution in paraffin oil.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Bovet & Bovet-Nitti. ¹ Flurv. Abderhalden's Hdb. 4, 7b:1339. Ibid	493
	G acacia G acacia		Weston, J. Pharm. Exp. Ther. 107:315, 1953. Ibid	494
			Hunt, Heffter's Hdb. 1.1:779. Ibid Ibid	495
		12 hr	Hunt, Heffter's Hdb. 1.1:779. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	496
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	497
85-160			Smyth, unpublished data, Mellon Inst.	498
6,800-14,800	Par oil		Carpenter, Arch. Ind. Hyg. Occ. Med. 10:162, 1954. Ibid Ibid	499
			Treon, J. Ind. Hyg. Tox. 25:199, 1943. Sato, Jap. J. M. Sc., IV Pharm. 3:(1), 1, 1928.	500
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	501
1950-2180			Smyth, unpublished data, Mellon Inst. Treon, J. Ind. Hyg. Tox. 25:199, 1943. Ibid Sato, Jap. J. M. Sc., IV Pharm. 3:(1), 1, 1928.	502
2810-4260			Jacob, Arch. exp. Path. Pharm. 50:199, 1903. Smyth, unpublished data, Mellon Inst. Treon, J. Ind. Hyg. Tox. 25:199, 1943. Ibid	503
			Gunn, J. Physiol. 97:453, 1940.	504
			Draize, J. Pharm. Exp. Ther. 93:26, 1948.	505
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	506
			Fellows, J. Pharm. Exp. Ther. 100:267, 1950. Ibid Ibid	507
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	508
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	509

1948. /2/ Cyanine dye No. 715. /3/ 1% suspension in gum acacia solution. /4/ Undiluted.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
510	α -Cyclohexyl- α -ethylamine	Mouse	ip	LD	180
511	α -Cyclohexyl- β -ethylamine	Mouse	ip	LD	120
512	α -Cyclohexylisopropylamine	Mouse	ip	LD ₅₀	160
513	Cyclohexylmethylamine	Mouse	ip	LD	360
514	DL-1-Cyclohexyl-2-methylamino- propane HCl	Rat	ip	LD ₅₀	65-75
		Guinea pig	ip	LD ₅₀	85
		Rabbit	ip	LD ₅₀	80-90
515	Cyclohexyl sulfamate sodium	Mouse	or	LD ₅₀	10,000-12,000
		Mouse	iv	LD ₅₀	4000
		Rat	or	LD ₅₀	12,000
		Rat	iv	LD ₅₀ *	3500
516	Cyclotrimethylenetrinitramine	Rat	or	LD ₅₀	200 ¹
517	Cymarín	Frog	sc	LD	0.7-2.0
		Cat	sc	LD	0.5
		Cat	iv	LD	0.125
		Cat	iv	LD ₅₀	0.0954
		Dog	iv	LD	0.215
518	Cymene	Guinea pig	ip	LD*	2100
519	Cystamin(e)	Mouse	sc	LD	450
		Rat	sc	LD	200
		Guinea pig	sc	LD	300
		Cat	sc	LD	200
520	Cytisine nitrate	Frog	sc	LD	25
		Rat	sc	LD	70
		Guinea pig	sc	LD	7
		Cat	sc	LD	3
		Dog	sc	LD	4
		Chicken	sc	LD	10
		Pigeon	sc	LD	6.3-13.0
521	2,4-D	Mouse	or	LD ₅₀	375
		Mouse	sc	LD ₅₀	280
		Mouse	ip	LD ₅₀	375
		Rat	or	LD ₅₀	666
		Rat	ip	LD ₅₀	666
		Guinea pig	or	LD ₅₀	1000
		Guinea pig	ip	LD ₅₀	666
		Rabbit	or	LD ₅₀	800
		Rabbit	ct	LD ₅₀	1400 ²
		Rabbit	ip	LD ₅₀	400
		Rabbit	iv	LD ₅₀	400
		Dog	or	LD ₅₀	100
522	DDD	Mouse	or	LD	2280
		Rat	or	LD	3360
		Rat	or	LD ₅₀ *	3400

/1/ 4% suspension in H₂O. /2/ Ammonium salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Gunn, J. Physiol. <u>97:453</u> , 1940.	510
			Gunn, J. Physiol. <u>97:453</u> , 1940.	511
			Gunn, J. Physiol. <u>97:453</u> , 1940.	512
			Gunn, J. Physiol. <u>97:453</u> , 1940.	513
			Fellows, J. Pharm. Exp. Ther. <u>100:267</u> , 1951. Ibid Ibid	514
		24 hr Few min	Richards, J. Am. Pharm. Assoc. <u>40:1</u> , 1951. Ibid Ibid Ibid	515
	H ₂ O	24 hr	Von Oettingen, J. Ind. Hyg. Tox. <u>31:21</u> , 1949.	516
			Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid Chen, Proc. Pharm. Soc. <u>3:13</u> , 1940. Lendle, Heffter's Hdb. <u>E. 1:78</u> .	517
			Classervant, C. rend. Soc. biol. <u>55:1255</u> , 1903.	518
			Robber, Arch. exp. Path. Pharm. <u>185:461</u> , 1937. Ibid Ibid Ibid	519
			Flury, Abderhalden's Hdb. <u>4.7b:1342</u> . Ibid Ibid Ibid Ibid Ibid Ibid	520
		3 da	Hill, J. Ind. Hyg. Tox. <u>29:85</u> , 1947. Bucher, Proc. Soc. Exp. Biol. Med. <u>63:204</u> , 1946. Hill, J. Ind. Hyg. Tox. <u>29:85</u> , 1947. Ibid Ibid Ibid Ibid Ibid Lehman, Q. Bull. Assoc. F. & D. Off. <u>16:3</u> , 1952. Hill, J. Ind. Hyg. Tox. <u>29:85</u> , 1947. Ibid Drill, Arch. Ind. Hyg. Occ. Med. <u>7:61</u> , 1953.	521
			Div. Pharm. F. & D. Adm. Q. Rpt. <u>2</u> , Dec. 1946. Div. Pharm. F. & D. Adm. Q. Rpt. <u>3</u> , Mar. 1947. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951.	522

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
523 DDT	Frog	sc	LD	50
	Mouse	or	LD ₅₀ *	180
	Mouse	or	LD ₅₀	200 ¹
	Rat	or	LD ₅₀	420 ¹
	Rat	or	LD ₅₀	800
	Rat	or	LD ₅₀ *	200
	Rat	ct	LD ₅₀	3000
	Rat	sc	LD ₅₀	1500
	Rat	ip	LD	100-200
	Rat	iv	LD ₅₀	40-50 ²
	Guinea pig	or	LD ₅₀	400
	Guinea pig	or	LD ₄₀	282-355
	Guinea pig	ct	LD ₅₀	1000
	Guinea pig	sc	LD ₅₀	900
	Rabbit	or	LD ₅₀	300
	Rabbit	or	LD ₅₀	400
	Rabbit	or	LD ₅₀	250
	Rabbit	ct	LD ₅₀	300
	Rabbit	sc	LD ₅₀	>3200
	Rabbit	ip	LD ₅₀	2100
	Rabbit	iv	LD	40-45
	Cat	or	LD ₅₀	400-500 ²
	Cat	iv	LD	40-75 ²
	Dog	iv	LD	60-75 ²
	Monkey	iv	LD ₅₀	50-60 ²
	Monkey	iv	LD ₁₀₀	75
	Chicken	or	LD ₅₀	>300
524 Decaborane	Mouse	ip	LD ₅₀	33
	Rat	ip	LD ₅₀	23
	Rabbit	ip	LD ₅₀	28
	Rabbit	ct	LD ₅₀	113
	Rabbit	ct	LD ₅₀	71
	Dog	ip	LD	<16
525 Decahydronaphthalene	Rat	or	LD ₅₀	4170
	Rat	ct	LD ₅₀	5900
526 Decane-1,10-diamine 2HCl	Mouse	ip	LD ₅₀	122.5-171.6
	Rat	ip	LD ₅₀	98.1-122.5
	Guinea pig	ip	LD ₅₀	98.1-122.5
527 Decapryn succinate	Mouse	or	LD ₅₀	470±32
	Mouse	sc	LD ₅₀	460±52
	Mouse	iv	LD ₅₀	62±4
	Rat	sc	LD ₅₀	440±34
	Rabbit	or	LD ₅₀	250±42
	Rabbit	iv	LD ₅₀	49±1.4
528 Decylthiocyanate	Mouse	sc	LD	18,000
	Rat	sc	LD	20,700
	Cat	or	LD	4550

/1/ Toxicity varies with different solvents. /2/ Emulsion in H₂O. /3/ Or kerosene.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Par oil Par oil Ether Par oil H ₂ O Ether ³ Par oil Par oil Ether ³ Olive oil Olive oil H ₂ O H ₂ O H ₂ O H ₂ O		Hoffmann, Arch. exp. Path. Pharm. 205:223, 1948. Woodard, J. Pharm. Exp. Ther. 82:152, 1944. Von Oettingen, J. Pharm. Exp. Ther. 88:400, 1946. Woodard, J. Pharm. Exp. Ther. 82:152, 1944. Cameron, Brit. Med. J. 1:865, 1945. Philips, J. Pharm. Exp. Ther. 86:213, 1946. Cameron, Brit. Med. J. 1:865, 1945. Ibid Hoffmann, Arch. exp. Path. Pharm. 205:223, 1948. Deichmann & Heyroth, unpublished data, 1950. Cameron, Brit. Med. J. 1:865, 1945. Woodard, J. Pharm. Exp. Ther. 82:152, 1944. Cameron, Brit. Med. J. 1:865, 1945. Ibid Ibid Woodard, J. Pharm. Exp. Ther. 82:152, 1944. Cameron, Brit. Med. J. 1:865, 1945. Ibid Deichmann & Heyroth, unpublished data, 1950. Ibid Philips, J. Pharm. Exp. Ther. 86:213, 1946. Ibid Ibid Ibid Ibid Ibid	523
		24 hr 48 hr	Krackow, Arch. Ind. Hyg. Occ. Med. 8:335, 1953. Ibid Ibid Krackow, Chem. Corps Med. Lab. Rpt. 8, 1951. Ibid Willis, Chem. Corps Med. Lab. Rpt. 15, 1953.	524
3360-5160 3840-9060			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	525
			Alles, J. Pharm. Exp. Ther. 107:332, 1953. Ibid Ibid	526
		2-24 hr 2-24 hr 2-24 hr 2-24 hr 2-24 hr	Brown, J. Lab. Clin. Med. 33:325, 1948. Ibid Ibid Ibid Ibid Ibid	527
		2' -4 ds 4 1/2-72 hr	Von Oettingen, J. Ind. Hyg. Tox. 18: 310, 1936. Ibid Ibid	528

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
529 Dehydroacetic acid	Mouse	ip	LD ₅₀	2000
	Rat	or	LD ₅₀	1000
	Rat	or	LD ₅₀	570 ²
	Dog	or	LD	400 ²
	Dog	iv	LD	400 ²
530 Delvinal	Rat	or	LD ₅₀	130
	Dog	or	LD ₅₀	60
531 Demerol HCl	Frog	sc	MLD	250-300
	Frog	sc	LD ₅₀	515
	Mouse	or	LD ₅₀	221
	Mouse	or	LD ₅₀	178
	Mouse	sc	MLD	160
	Mouse	sc	LD ₅₀	195
	Mouse	sc	LD ₅₀	165±6.9
	Mouse	sc	LD ₅₀	150
	Mouse	ip	MLD	125
	Mouse	ip	LD ₅₀	147
	Mouse	ip	LD ₅₀	145±7.4
	Mouse	ip	LD ₅₀	152
	Mouse	ip	LD ₅₀	141.04±8.71
	Mouse	iv	LD ₅₀	40.8±1.4
	Mouse	iv	LD ₅₀	49.67±1.35
	Mouse	iv	LD ₅₀	60
	Rat	or	LD ₅₀	170
	Rat	sc	LD ₅₀	200
	Rat	ip	LD ₅₀	93
	Rat	iv	LD ₅₀	34
	Rabbit	or	LD ₅₀	500
	Rabbit ³	iv	LD ₅₀	32
	Rabbit ⁴	iv	LD ₅₀	20
	Rabbit	iv	LD ₅₀	30
532 Derris root ⁵	Mouse	or	LD ₅₀	350
	Rat	or	LD ₁₀₀	400
	Rat	or	LD ₅₀ [*]	1500
	Guinea pig	or	LD ₁₀₀	100
	Rabbit	or	LD ₁₀₀	700
	Dog	or	LD ₁₀₀	250
533 Desacetyl-tanghinin	Cat	iv	LD ₅₀	0.2311
534 Desgluco-cheiroside A	Cat	iv	LD ₅₀	1.332
535 Desgluco-hellebrol	Cat	iv	LD ₅₀	0.0922
536 Desgluco-transvaalin	Cat	iv	LD ₅₀	0.1847
537 Desoxycorticosterone	Rat	ip	LD [*]	325.5
538 DFDT	Rat	or	LD ₅₀ [*]	1120

/1/Olive oil emulsion in gum arabic. /2/Given as Na salt; calculated as acid equivalent.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
910-1100 510-610	Olive oil ¹ H ₂ O H ₂ O H ₂ O		Brodersen, Acta pharm. tox. 2:109, 1946. Spencer, J. Pharm. Exp. Ther. <u>99</u> :57, 1950. Ibid Seevers, J. Pharm. Exp. Ther. <u>99</u> :69, 1950. Ibid	529
		24 hr	Hendrix, J. Pharm. Exp. Ther. <u>66</u> :22, 1940. Ibid	530
368-720 165-193 142-204 167-240 28-41 380-660 25-35			Winthrop Chem. Corp. 1944. Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951. Gruber, J. Pharm. Exp. Ther. <u>73</u> :319, 1941. Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951. Winthrop Chem. Corp. 1944. Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951. Way, J. Pharm. Exp. Ther. <u>87</u> :265, 1946. Duguid, Q. J. Pharm. Pharmacol. <u>13</u> :318, 1940. Winthrop Chem. Corp. 1944. Gruber, J. Pharm. Exp. Ther. <u>73</u> :319, 1941. Way, J. Pharm. Exp. Ther. <u>87</u> :265, 1946. Caratola, Prensa Méd. Arg. <u>29</u> :1599, 1942. Calesnick, J. Pharm. Exp. Ther. <u>102</u> :138, 1951. Scott, Current Res. Anes. <u>26</u> :12, 1947. Scott, J. Pharm. Exp. Ther. <u>84</u> :184, 1945. Duguid, Q. J. Pharm. Pharmacol. <u>13</u> :318, 1940. Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951. Ibid Gruber, J. Pharm. Exp. Ther. <u>73</u> :319, 1941. Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951. Ibid Gruber, J. Pharm. Exp. Ther. <u>73</u> :319, 1941. Ibid Barlow, J. Pharm. Exp. Ther. <u>103</u> :147, 1951.	531
		24 hr 24 hr 24 hr 24 hr	Haag, Proc. Soc. Exp. Biol. Med. <u>54</u> :140, 1943. Ambrose, Indust. Engin. Chem. <u>28</u> :815, 1936. Lehman, Q. Bull. Assoc. F. & D. <u>OW</u> <u>15</u> :122, 1951. Ambrose, Indust. Engin. Chem. <u>28</u> :815, 1936. Ibid Ibid	532
0.1636-0.3321	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	533
0.9941-2.2627	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	534
0.0780-0.1133	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	535
0.1484-0.2339	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	536
	Peanut oil	6 hr	Selye, Proc. Soc. Exp. Biol. Med. <u>66</u> :116, 1941.	537
			Lehman, Q. Bull. Assoc. F. & D. <u>OW</u> <u>15</u> :122, 1951.	538

/3/ Young. /4/ Adult. /5/ Powdered.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
539	Diacetin	Mouse Mouse Mouse Rat	or sc iv sc	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	8.5 cc ¹ 2.5 cc 2.3 cc ¹ 4 cc
540	Diacetone alconol	Rat Rabbit Rabbit Rabbit	or c im iv	LD ₅₀ LD ₅₀ LD LD	4000 14.5 cc >3000 3.25 cc
541	1,1-Diacetoxypopene-2	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	250 320
542	Diacetylcholine	Mouse	iv	LD ₅₀	0.55
543	Di-(acetylcyanide)	Rat Rabbit	or or	MLD MLD	20-30 10.3-18.0
544	Dial	Frog Rat Rat Rabbit Rabbit Rabbit	sc sc sc or sc iv	LD LD MLD LD LD LD	250 110 110-150 50 100 70
545	Diallyl acetic acid	Rat Rat	or iv	LD ₅₀ * LD ₅₀	630 630
546	Diallyl ether	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	320 600
547	Diallyl maleate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	300 1150
548	Diallyl phthalate	Mouse Rat Rat Rabbit Rabbit Rabbit	ip or or or sc ct	LD ₅₀ * LD LD LD LD LD ₅₀	671 ² 786 ³ 1679 1679 1119 3357
549	4,4'-Diamidinostilbene	Mouse Hamster	ip ip	LD ₅₀ LD ₅₀	43-53 50
550	3,6-Diaminocarbazole 2HCl	Rat	or	LD ₅₀	1035
551	Diamylphenol	Rat?	ip	LD ₅₀	620
552	Diatrin HCl	Mouse	ip	LD ₅₀	117
553	Diazinon	Rat Rat	or or	LD ₅₀ LD ₅₀	32 ⁴ 1150 ⁵
554	Dibenamine	Mouse	sc	LD ₅₀	800
555	Dibenzazepine	Mouse	iv	LD ₅₀	52±1.6

/1/ Undiluted. /2/ 5% solution in oil. /3/ 25% solution in oil. /4/ Technical grade, 95%.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		1/2 hr 1, 3-4 hr 24 hr 1/3-4 hr	Latven, J. Pharm. Exp. Ther. 65:89, 1939. Li, Proc. Soc. Exp. Biol. Med. 46:26, 1941. Latven, J. Pharm. Exp. Ther. 65:89, 1939. Li, Proc. Soc. Exp. Biol. Med. 46:26, 1941.	539
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid Walton, J. Pharm. Exp. Ther. 33:175, 1928. Ibid	540
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	541
			Castillo, J. Pharm. Exp. Ther. 99:458, 1950.	542
			Treon, Arch. Ind. Hyg. Occ. Med. 4:573, 1951. Ibid	543
		1 hr+	Flury, Abderhalden's Hdb. 4.7b:1342. Vogt, Arch. exp. Path. Pharm. 152:341, 1930. Gros, Arch. exp. Path. Pharm. 182:348, 1936. Flury, Abderhalden's Hdb. 4.7b:1342. Ibid Ibid	544
			Hagan, Fed. Proc. 8:299, 1948. Ibid	545
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	546
250-350 910-1450			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	547
	Oil Oil	3 hr	McOmie, Univ. Cal. Publ. Pharmacol. 2:17, 1949. Ibid Ibid McOmie, Fed. Proc. 5:191, 1946. Ibid McOmie, Univ. Cal. Publ. Pharmacol. 2:17, 1949.	548
			Soong, Fed. Proc. 1:167, 1942. Ibid	549
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	550
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	551
			Castillo, J. Pharm. Exp. Ther. 96:388, 1949.	552
			Bruce, Fed. Proc. 13:339, 1954. Ibid	553
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	554
			Randall, J. Pharm. Exp. Ther. 103:10, 1951.	555

/5/ 23% wettable powder.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
556	N, N'-Dibenzylethylenediamine 2HCl	Mouse	or	LD ₅₀	630
		Mouse	ip	LD ₅₀	103.9
557	1, 4-Dibromo-2-butene	Rat	or	LD ₅₀	75
558	1, 4-Dibromobutene	Rat	or	LD ₅₀	75
559	Dibromosalicyl	Rat	ip	LD ₅₀ *	125
		Rat	ip	LD ₅₀	>1200
		Rat	ip	LD ₅₀ *	1550
560	1, 1-Dibutoxyethane	Rat	or	LD ₅₀	8790
561	1, 2-Dibutoxyethane	Rat	or	LD ₅₀	3250
562	Dibutyl adipate	Rat	or	LD ₅₀	12,900
		Rabbit	ct	LD ₅₀	20,000
563	n-Dibutylamine	Rat	or	LD ₅₀	550
		Rabbit	ct	LD ₅₀	1.01 cc
564	Dibutylaminoethanol	Rat	or	LD ₅₀	1070
		Rabbit	ct	LD ₅₀	1.69 cc
565	Dibutyl fumarate	Rat	or	LD ₅₀	8530
		Rabbit	ct	LD ₅₀	15,900
566	2-Di-n-butyl-4-hydroxymethyl-1, 3-moxolane	Mouse	ip	LD ₅₀	82944±82.08
567	Dibutyl phosphite	Rat	or	LD ₅₀	3200
		Rabbit	ct	LD ₅₀	2000
568	Dibutyl phthalate	Mouse	ip	LD ₅₀	4140
569	Dibutyl sebacate	Rat	or	LD	1600-3200
570	2, 2'-Dichloroacetic acid	Mouse	or	LD ₅₀	5520
		Rat	or	LD ₅₀	4480
		Rabbit	ct	LD ₅₀	510
571	2, 2'-Dichloroacetyl chloride	Rat	or	LD ₅₀	2460
		Rabbit	ct	LD ₅₀	650
572	p-Dichloroacrylonitrile	Mouse	ip	LD ₅₀	6.7
573	o-Dichlorobenzene	Rabbit	iv	LD	326-652
574	p-Dichlorobenzene	Rat	ip	LD ₀	2562
575	1, 4-Dichlorobutene-2	Rat	or	LD ₅₀	89
		Rabbit	ct	LD ₅₀	620
576	p, p'-Dichlorodiphenylmethylether of Dimethylaminoethanol	Mouse	ip	LD ₅₀	72±2
577	1, 1-Dichloroethane	Rat	or	LD ₅₀	14,100
		Dog	or	MLD	2500
		Dog	iv	MLD	175
578	1, 2-Dichloroethane	Mouse	or	LD ₅₀	910
		Rat	or	LD ₅₀	770
		Rabbit	or	LD ₅₀	910
		Rabbit	ct	LD ₅₀	3890

(continued on next page)

/1/ Buffered with borate. /2/ 10%. /3/ 3%.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
92.8-116.4			Seifter, Antibiotics 1:504, 1951. Ibid	556
57-97			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	557
57-97			Smyth, unpublished data, Mellon Inst.	558
	H ₂ O ¹ G arabic ² Mucin ³	48 hr 48 hr 48 hr	Quadbeck, Klin Wschr. 27:449, 1949. Ibid Ibid	559
7960-9700			Smyth, unpublished data, Mellon Inst.	560
2820-3740			Smyth, unpublished data, Mellon Inst.	561
9,900-17,000			Smyth, J. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	562
480-620 0.68-1.49 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	563
980-1170 1.20-2.36 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	564
6,120-11,900 7,820-32,200			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	565
			Berger, Arch. int. pharmacod. 85:474, 1951.	566
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	567
			Karel, Fed. Proc. 6:342, 1947.	568
			Smyth, Arch. Ind. Hyg. Occ. Med. 7:310, 1953.	569
3810-8000 4290-4690 390-670		36 hr 36 hr	Woodard, J. Ind. Hyg. Tox. 23:78, 1941. Ibid Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	570
1830-3230 530-810			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	571
		2/3-24hr	U. of Chicago Toxic. Lab. Rpt. 23, 1948.	572
			Cameron, J. Path. Bact. 44:281, 1937.	573
±0.0125(SE)			Zupke, J. Am. Pharm. Assoc. 38:124, 1949.	574
41-196 470-810			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	575
			Ensor, J. Pharm. Exp. Ther. 112:318, 1954.	576
11,700-17,100	Oil Oil	24 h- 30 min	Smyth, unpublished data, Mellon Inst. Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934. Ibid	577
870-950 670-890 860-970 3400-4460			Smyth, unpublished data, Mellon Inst. Ibid Ibid Ibid	578

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
578	1, 2-Dichloroethane (concluded)	Rabbit	sc	MLD	1600
		Dog	or	MLD	2500
		Dog	iv	LD	95-314
579	2, 2 -Dichloroethoxymethane	Rat	or	LD ₅₀	65
		Guinea pig	or	LD ₅₀	60
		Rabbit	ct	LD ₅₀	410
580	2, 2'-Dichloroethyl ether	Mouse	or	LD ₅₀	136
		Rat	or	LD ₅₀	105
		Rabbit	or	LD ₅₀	126
		Rabbit	ct	LD ₅₀	410
581	2, 2'-Dichloroisopropyl ether	Rat	or	LD ₅₀	240
		Guinea pig	or	LD ₅₀	450
		Rabbit	ct	LD ₅₀	3000
582	Dichloromethane	Rabbit	or	LD	1896
		Rabbit	sc	MLD	2700
		Dog	or	MLD	3000 ¹
		Dog	iv	MLD	200
583	Dichloro-β-naphthol	Mouse	sc	LD	700
584	1, 1-Dichloro-1-nitroethane	Rabbit	or	LD	150-200
585	2, 4-Dichlorophenol-1	Rat	or	LD ₅₀	580 ²
		Rat	sc	LD	1730
586	Dichlorophenoxyethanediol	Rat	or	LD ₅₀	1070
		Rabbit	ct	LD ₅₀	420
587	1, 1-Dichloropropane	Rat	or	LD ₅₀	6500
588	1, 2-Dichloropropane	Mouse	or	LD ₅₀	860
		Rat	or	LD ₅₀	2270
		Rat	or	LD ₅₀	1330
		Rabbit	ct	LD ₅₀	8750
589	2, 3-Dichloropropanol	Rat	or	LD ₅₀	90
		Rabbit	ct	LD ₅₀	200
590	2, 3-Dichloropropionaldehyde	Rat	or	LD ₅₀	160
		Rabbit	ct	LD ₅₀	78
591	3, 9-Dichloropropylenebenzazepine	Mouse	ip	LD ₅₀	316
		Mouse	iv	LD ₅₀	47
592	γ-Dichroine	Mouse	or	LD ₅₀	2.74±0.41
		Mouse	iv	LD ₅₀	10.0±0.5
593	Dicodid(e) (base)	Mouse	sc	LD ₅₀	8.57
594	Di-o-cresylphosphate (continued on next page)	Rat	iv	MLD	800

/1/ Emulsion in H₂O. /2/ 20% solution in fuel oil.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Oil	24 hr	Barscum, Q. J. Pharm. Pharmacol. 7:205, 1934.	578
	Oil	24 hr	Ibid	
		8-24 hr	Kistler, Current Res. Anes. 8:65, 1929.	
60-70 54-66 360-460			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Smyth, unpublished data, Mellon Inst. Ibid	579
112-165 95-116 117-135 350-480			Smyth, unpublished data, Mellon Inst. Ibid Ibid Ibid	580
220-270 410-500 1780-5040			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Smyth, unpublished data, Mellon Inst. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	581
	Oil H ₂ O Oil	24 hr 24 hr 30 min	Fühner, Arch. exp. Path. Pharm. 97:86, 1923. Barscum, Q. J. Pharm. Pharmacol. 7:205, 1934. Ibid Ibid	582
			Bechold, Zschr. Hyg. Infkr. 64:112, 1909.	583
			Machle, J. Ind. Hyg. Tox. 27:95, 1945.	584
	Fuel oil		Deichmann, Fed. Proc. 2:76, 1943. Ibid	585
700-1650 250-710			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	586
4950-8530			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	587
600-1220 1930-2660 990-1800 8310-9200			Smyth, unpublished data, Mellon Inst. Ibid Ibid Ibid	588
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	589
140-190 54-112			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	590
			Randall, J. Pharm. Exp. Ther. 103:10, 1951. Ibid	591
		2-3 da 2-3 da	Henderson, J. Pharm. Exp. Ther. 95:191, 1949. Ibid	592
			Eddy, J. Pharm. Exp. Ther. 52:468, 1934.	593
			Smith, J. Pharm. Exp. Ther. 51:217, 1934.	594

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
594	Di-o-cresylphosphate (concluded)	Rabbit	iv	MLD	500-700
		Cat	iv	MLD	300
595	Dicumarol	Mouse	or	LD ₅₀	232.8±46.56
		Mouse	ip	LD ₅₀	<350
		Mouse	iv	LD ₅₀	64.3±6.11
		Rat	or	LD ₅₀	541.6±67.7
		Rat	iv	LD ₅₀	52.13±1.79
		Guinea pig	iv	LD ₅₀	58.6±2.29
		Dog	iv	LD	40
596	Dicyan	Frog	sc	LD	43-47
		Rabbit	sc	LD	13
597	Di-(2-cyanoethyl)amine	Rat	or	LD ₅₀	2700
		Rabbit	ct	LD ₅₀	10,000
598	Di-(2-cyanoethyl)sulfide	Rat	or	LD ₅₀	4210
		Rabbit	ct	LD ₅₀	4500
599	p-Di-β-diethylaminoethoxybenzene-diethiodide	Mouse	sc	LD ₅₀	2.8±0.2
600	Di-2,5-dimethylphenoxyethyl-β-chloroethanolamine	Mouse	ip	LD ₅₀	>1000
601	Di-3,5-dimethylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀	>1000
602	Meldrin	Rat	or	LD ₅₀	50-55
		Rat	or	LD ₅₀ *	87
		Rabbit	ct	LD ₅₀	>1501
		Dog	or	LD ₅₀	65-95
		Chicken	or	LD ₅₀	25
603	1,2,3,4-Diepoxybutane	Rat	or	LD ₅₀	78
		Rabbit	ct	LD ₅₀	0.089 cc
604	Diethamine	Mouse	sc	LD ₅₀	4.7±0.4
605	1,2-Diethoxyethane	Rat	or	LD ₅₀	4390
		Guinea pig	or	LD ₅₀	2440
		Rabbit	or	LD ₅₀	2520
		Rabbit	ct	LD ₅₀	8000
606	Diethoxythiophosphoric acid ester of 2-Ethyl-mercaptoethanol (Tech. grade)	Rat	ip	LD ₅₀	3
607	Diethylamine	Rat	or	LD ₅₀	540
		Rabbit	ct	LD ₅₀	820
608	3-Diethylamino-1,1-di-(2'-thienyl)butane HCl	Mouse	or	LD	293
		Mouse	sc	LD	196
609	3-Diethylamino-1,1-di-(2'-thienyl)butene HCl	Mouse	or	LD ₅₀	195-203
		Mouse	sc	LD ₅₀	101

/1/ 4% solution.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Smith, J. Pharm. Exp. Ther. <u>51:217</u> , 1934. Ibid	594
			Rose, Proc. Soc. Exp. Biol. Med. <u>50:228</u> , 1942. Brodersen, Acta pharm. tox. <u>2:109</u> , 1946. Rose, Proc. Soc. Exp. Biol. Med. <u>50:228</u> , 1942. Ibid Ibid Ibid	595
		30-40 min	Walim, Surg. Gyn. Obst. <u>76:323</u> , 1943.	
			Ileymans, Arch. int. pharmacod. <u>3:77</u> , 1897. Ibid	596
			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	597
			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	598
			Winter, J. Pharm. Exp. Ther. <u>100:489</u> , 1950.	599
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	600
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	601
	H ₂ O		Lidov, Advances Chem. <u>1:175</u> , 1951. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951. Lehman, Q. Bull. Assoc. F. & D. Off. <u>16:3</u> , 1952. Princi, Arch. Ind. Hyg. Occ. Med. <u>3:67</u> , 1951. Eden, J. Econ. Entomol. <u>44:1013</u> , 1951.	602
59-102 0.055-0.144 cc			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	603
			Winter, J. Pharm. Exp. Ther. <u>100:489</u> , 1950.	604
3650-5310 2220-2690 2400-2640 5,920-10,820			Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Ibid Smyth, unpublished data, Mellon Inst. Ibid	605
			DuBois, Arch. Ind. Hyg. Occ. Med. <u>6:9</u> , 1952.	606
350-830 530-1260			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Ibid	607
280-307 186-207			Eddy, J. Pharm. Exp. Ther. <u>107:385</u> , 1953. Ibid	608
95-107			Eddy, J. Pharm. Exp. Ther. <u>107:385</u> , 1953. Ibid	609

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
610	Diethylaminoethanol- α -allyl-diphenylacetate HCl	Mouse	ip	LD ₅₀	185
611	Diethylaminoethylbenzazepine	Mouse	ip	LD ₅₀	205±9
		Mouse	iv	LD ₅₀	25±6.5
612	N-Diethylaminoethyl chloride	Rat	or	LD ₅₀	17
		Rabbit	ct	LD ₅₀	300
613	β -Diethylaminoethylcumate HCl	Mouse	ip	LD ₅₀	370±18.2
614	β -Diethylaminoethyl-9,10-dihydro-anthracene-9-carboxylate HCl	Rat	or	LD ₅₀	>400
615	Diethylaminomethylbenzodioxan	Frog	sc	LD	250
		Mouse	sc	LD	500
		Guinea pig	or	LD	400
		Guinea pig	sc	LD	400
		Rabbit	sc	LD	300
		Rabbit	iv	LD	20
		Rooster	sc	LD	150
616	Diethylaminopropylcumate HCl	Mouse	ip	LD ₅₀	238±15.5
617	Diethylammonium-p-aminobenzoate	Mouse	ip	LD	1550
		Rat	im	LD	2000
		Rat	ip	LD	1610
		Rat	iv	LD	520
618	Diethyl-bis(dimethylamido)-pyrophosphate (asymmetric)	Mouse♂	ip	LD ₅₀ *	4.9
		Mouse♀	ip	LD ₅₀ *	4.7
		Rat♀	or	LD ₅₀ *	3.8
		Rat♂	ip	LD ₅₀ *	2.7
		Rat♀	ip	LD ₅₀ *	2.4
		Guinea pig	ip	LD ₅₀ *	5-7
		Dog	iv	LD ₅₀ *	10-15
619	Diethyl-bis(dimethylamido)-pyrophosphate (symmetric)	Mouse♂	ip	LD ₅₀	16.4
		Mouse♀	ip	LD ₅₀	17
		Rat♀	or	LD ₅₀	12.4
		Rat♂	ip	LD ₅₀	11.5
		Rat♀	ip	LD ₅₀	10
		Guinea pig	ip	LD ₅₀	13-16
		Dog	iv	LD ₅₀	25-30
620	Diethyl- β -chloroethylamine	Mouse	sc	LD ₅₀	100
		Mouse	iv	LD ₅₀	100
		Rabbit	iv	LD ₅₀	40-100
621	Diethyl-2-chlorovinyl phosphate (con. Inued on next page)	Mouse♂	or	LD ₅₀	32.9
		Mouse♀	or	LD ₅₀	18
		Rat♂	or	LD ₅₀	10

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952.	610
			Randall, J. Pharm. Exp. Ther. <u>103</u> :10, 1951. Ibid	611
11-27			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	612
			Williams, J. Am. Pharm. Assoc. <u>40</u> :471, 1951	613
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	614
			Bovet, Arch. int. pharmacod. <u>55</u> :15, 1934. Ibid Zunz, Arch. int. pharmacod. <u>48</u> :287, 1934. Ibid Ibid Ibid	615
			Williams, J. Am. Pharm. Assoc. <u>40</u> :471, 1951.	616
			Mainardi, Boll. soc. ital. biol. sper. <u>27</u> :275, 1951 Ibid Ibid Ibid	617
			DuBois, J. Pharm. Exp. Ther. <u>107</u> :444, 1953. Ibid Ibid Ibid Ibid Ibid Ibid	618
			DuBois, J. Pharm. Exp. Ther. <u>107</u> :444, 1953. Ibid Ibid Ibid Ibid Ibid Ibid	619
			Anslow, J. Pharm. Exp. Ther. <u>91</u> :224, 1947. Ibid Ibid	620
31.1-34.9 15.2-21.2 9.4-10.7			Kotama, Arch. Ind. Hyg. Occ. Med. <u>9</u> :45, 1954. Ibid Ibid	621

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
621	Diethyl-2-chlorovinyl phosphate (concluded)	Rat?	or	LD ₅₀	10.5
		Rat?	or	LD ₅₀	9
		Rabbit?	or	LD ₅₀ *	3.37
		Rabbit	ct	LD ₅₀ *	17.6
622	Diethylene glycol	Mouse	or	LD ₅₀	26,828
		Mouse	sc	LD*	5660
		Mouse	ip	LD ₅₀	9737
		Rat	or	LD ₅₀	16,980
		Rat	or	LD ₅₀	16,980
		Rat	or	LD ₅₀	12,565
		Rat	im	LD ₅₀	7924
		Rat	ip	LD ₅₀ *	12,500
		Rat	iv	LD ₅₀	6565 ¹
		Guinea pig	or	LD ₅₀	13,210
		Rabbit	im	LD	4528
		Rabbit	iv	LD	2264
		Dog	or	LD	16,980 ¹
623	Diethylene glycol ethyl ether	Rat	or	LD ₅₀	8690
624	Diethylene glycol monobutyl ether acetate	Mouse	or	LD ₅₀	6.6 cc
		Rat	or	LD ₅₀	7.1 cc
		Guinea pig	or	LD ₅₀	2.7 cc
		Rabbit	or	LD ₅₀	2.8 cc
		Chicken	or	LD ₅₀	5.0 cc
625	Di-(2-ethylhexyl)amine	Rat	or	LD ₅₀	1640
		Rabbit	ct	LD ₅₀	1190
626	Di-(2-ethylhexyl)phthalate	Rat	or	LD ₅₀	30,600
		Rat	ip	LD ₅₀	30,700
		Rabbit	or	LD ₅₀	33,900
627	2,2-Diethyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	1059.2±99.2
628	Diethyl ketone	Rat	or	LD ₅₀	2140
		Rabbit	ct	LD ₅₀	2000
629	O-s-Diethyl-O-(p-nitrophenyl)- phosphate	Frog	sc	MLD	50-100
		Mouse	sc	MLD	25-60
		Mouse	sc	MLD	20
		Rat	or	MLD	50-100
630	O,O-Diethyl-s-(p-nitrophenyl)- phosphate	Frog	sc	MLD	10
		Mouse	sc	MLD	2.5-5.0
		Mouse	sc	MLD	1.25
		Rat	or	MLD	2.5-5.0
631	Diethyl-p-nitrophenylthiophosphate	Frog	sc	MLD	200
		Mouse	sc	MLD	20
		Mouse	sc	MLD	10.0-12.5
		Mouse	sc	LD ₅₀	15-25
		Rat	or	MLD	6.4
		Rabbit	ct	LD ₁₀₀	140 ²

/1/ 70% solution in H₂O. /2/ At 150-250° C.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
9.9-11.1 7.4-11.3 2.29-4.45 8.0-27.2			Kodama, Arch. Ind. Hyg. Occ. Med. 9:45, 1954 Ibid Ibid Ibid	621
11,640-14,990	H ₂ O	1-5 da	Laug, J. Ind. Hyg. Tox. 21:173, 1939. Von Oettingen, J. Pharm. Exp. Ther. 42:355, 1931. Karel, Fed. Proc. 6:342, 1947. Haag, J. Pharm. Exp. Ther. 59:93, 1937.	622
		2-5 da	Gelling, J. Am. Med. Assoc. 109:1532, 1939. Poe, Proc. Soc. Exp. Biol. Med. 37:559, 1938. Haag, J. Pharm. Exp. Ther. 59:93, 1937. Poe, Proc. Soc. Exp. Biol. Med. 37:559, 1938. Weatherby, J. Am. Pharm. Assoc. 28:12, 1939. Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Haag, J. Pharm. Exp. Ther. 59:93, 1937.	
		1-14 da 3-4 da	Ibid Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	
7,250-10,410			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	623
1440-1870 850-1670			Draize, J. Pharm. Exp. Ther. 93:26, 1951. Ibid Ibid Ibid Ibid	624
			Smyth, J. Ind. Tox. 31:60, 1949 Smyth, unpublished data, Mellon Inst.	625
			Shaffer, J. Ind. Hyg. Tox. 27:130, 1945. Ibid Ibid	626
			Serger, Arch. int. pharmacod. 85:474, 1951.	627
1540-2990			Smyth, unpublished data, Mellon Inst. Ibid	628
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. 211:264, 1950. Ibid Ibid Ibid	629
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. 211:264, 1950. Ibid Ibid Ibid	
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. 211:264, 1950. Ibid Ibid Uhry, Arch. mal. profess. 11:589, 1950. Hecht, Arch. exp. Path. Pharm. 211:264, 1950. Uhry, Arch. mal. profess. 11:589, 1950.	

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
632	Diethyl phthalate	Mouse	ip	LD ₅₀	2750
		Guinea pig	sc	LD	3000
		Rabbit	or	LD	1000 ¹
		Rabbit	iv	LD	100 ²
		Dog	iv	LD	280
633	2,2-Diethyl-1,3-propandiol	Mouse	or	LD ₅₀	1550±110
		Mouse	ip	LD ₅₀	1220±92
		Mouse	iv	LD ₅₀	1170±67
		Rat	or	LD ₅₀	1400±181
		Rat	or	LD ₅₀	850
		Rat	ip	LD ₅₀	700±67
		Rat	iv	LD ₅₀	635±48
		Rabbit	ct	LD ₅₀	4.24 cc
634	Diethylstilbestrol	Mouse	or	LD	2500-5000
		Mouse	sc	LD	500-1000
635	N,N-Diethylsuccinamide-n-propylester	Mouse	or	LD ₅₀	6.3
		Rat	or	LD ₅₀	6.6
636	Diethyl succinate	Rat	or	LD ₅₀	8530
637	Diethyl sulfate	Rat	or	LD ₅₀	880
638	N,N-Diethylthymoxyacetamidine HCl	Rat	iv	LD ₅₀	38.4 ³
639	Digitanid	Cat	iv	MLD	0.34
640	Digitalein	Frog	sc	LD	5-32
		Mouse	sc	LD	11-65
		Cat	iv	LD	3.0-3.5
641	Digitalin	Frog	sc	LD	6-22
		Rat	sc	LD	120
		Guinea pig	sc	LD	5-16
		Rabbit	or	LD	20
		Rabbit	sc	LD	15
		Rabbit	iv	LD	3
		Cat	sc	LD	4
		Cat	iv	LD	0.97-8.0
		Cat	iv	LD	1.362
		Pigeon	or	LD	7.5 ⁴
		Pigeon	sc	LD	0.5 ⁴
642	Digitonin	Mouse	or	LD	90
		Mouse	sc	LD	200
		Mouse	iv	LD	10
643	Digitoxigenin	Cat	iv	LD	0.42
644	Digitoxin	Frog	sc	LD	3.3-6.0
		Toad	sc	LD	0.3
		Mouse	sc	LD	14
		Rat	iv	LD	12.2 ⁵
		Rabbit	or	LD	100

(continued on next page)

/1/ 6% suspension in gum acacia solution. /2/ 10% emulsion in H₂O. /3/ Injected over
tion in 40% alcohol.

Dosage ng/kg	Vehicle	Time of Death	Reference	
Range				
	G acacia H ₂ O N saline		Karel, Fed. Proc. 6:342, 1947. Kemp, Dissert., Würzburg 1934. Ibid Ibid Blickensdorfer, J. Am. Pharm. Assoc. 19:1179, 1930.	632
780-930 3.01-5.95 cc			Berger, J. Pharm. Exp. Ther. 100:27, 1950. Ibid Ibid Ibid Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Berger, J. Pharm. Exp. Ther. 100:27, 1950. Ibid Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	633
	Ses oil	1 hr 10-16 da	Kreitmaier, Klin. Wochr. 18:156, 1939. Ibid	634
			Draize, J. Pharm. Exp. Ther. 93:23, 1948. Ibid	635
6,110-11,900			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	636
760-1010			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	637
			Craver, Am. J. Dig. Dis. 18:241, 1951.	638
			Röthlin, Münch. med. Wochr. 80:726, 1933.	639
			Lendle, Heffter's Hdb. E.1:78. Ibid Ibid	640
	Dil alc		Lendle, Heffter's Hdb. E.1:78. Ibid Ibid Ibid Ibid Ibid Ibid Ibid White, J. Pharm. Exp. Ther. 52:1, 1934. Flury, Abderhalden's Hdb. 4.7b:1343. Ibid	641
		2 da 1 da 2 da	Flury, Abderhalden's Hdb. 4.7b:1395. Ibid Ibid	642
		45 min	Mehnert, Arch. exp. Path. Pharm. 184:181, 1936.	643
	Alcohol Alcohol		Lendle, Heffter's Hdb. E.1:78. Flury, Abderhalden's Hdb. 4.7b:1343. Lendle, Heffter's Hdb. E.1:78. Heubner, Arch. exp. Path. Pharm. 177:60, 1934. Lendle, Heffter's Hdb. E.1:78.	644

period of 30 minutes. /4/ Uncertain whether data are per kilo or per animal. /5/ 0.1% solu-

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
644 Digitoxin (concluded)	Rabbit	iv	LD	1-6
	Cat	or	LD	0.25
	Cat	sc	LD	0.35
	Cat	iv	LD	0.3-0.41
	Dog	sc	LD	0.5
645 Digitoxoside	Cat	iv	LD ₅₀	0.478±0.03
646 Diglycol chlorhydrine	Rat	or	LD ₅₀	6300
	Guinea pig	ct	LD ₅₀	3000
647 Digoxin ¹	Guinea pig	im	LD ₅₀	0.63
	Rabbit	iv	LD ₅₀	3.56
	Cat	iv	LD ₅₀	0.442
648 Dihexylamine	Rat	or	LD ₅₀	380
	Guinea pig	or	LD ₅₀	95
	Rabbit	ct	LD ₅₀	170
649 1, 2-Dihydrazinophthalazine	Mouse	ip	LD ₅₀	290±9
650 Dihydroergotamine	Mouse	iv	LD ₅₀	118
	Rat	iv	LD ₅₀	110
	Rabbit	iv	LD ₅₀	25
	Cat	sc	LD ₅₀	68
651 Dihydroerythroene	Mouse	sc	LD	9.3
652 Dihydro-β-erythroidine	Rat	iv	LD ₅₀	8.9
	Rabbit	iv	LD ₅₀	2.1
	Dog	iv	LD ₅₀	1.1
653 Dihydromorphine HCl	Mouse	sc	LD ₅₀	133.1 ²
	Rabbit	sc	LD ₅₀	160
654 Dihydrorotenone	Rat	or	LD ₅₀ [*]	2500
	Rat	or	LD ₅₀ [*]	330
655 Dihydroxyephedrine	Rabbit	iv	LD	10
656 2, 4-Dihydroxyphenylpropanolamine	Rabbit	iv	LD	12
657 3, 4-Dihydroxyphenylpropanolamine	Rabbit	iv	LD	11
658 (2, 5-Dihydroxyphenyl)trimethyl-ammonium bromide	Mouse	iv	LD ₅₀	38±2
659 Diisobutylcarbinol	Rat	or	LD ₅₀	3560
	Rabbit	ct	LD ₅₀	5660
660 Diisobutylene oxide	Rat	or	LD ₅₀	4920
	Rabbit	ct	LD ₅₀	14.1 cc
661 2, 2-Diisobutyl-4-hydroxymethyl-1, 3-dioxolane	Mouse	ip	LD ₅₀	529.2±43.2
662 Diisobutyl ketone	Rat	or	LD ₅₀	5750
	Rabbit	ct	LD ₅₀	20,000
663 1, 2-Diisopropoxy-2-propanolglyceryl-α-γ-diisopropylether	Mouse	or	LD ₅₀	1.86±0.06 cc

/1/ From *Digitalis lanata*. /2/ As the base. /3/ Bovet and Bovet-Nitti, "Médicaments du

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Lendle, Heffter's Hdb. E. 1:78. Ibid Ibid Ibid Ibid	644
			Peterfalvi, Arch. int. pharmacod. 87:425, 1951.	645
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid	646
	Alc sal Alc sal	24 hr 12-30 min	White, J. Pharm. Exp. Ther. 52:1, 1934. Walker, J. Pharm. Exp. Ther. 70:239, 1940. White, J. Pharm. Exp. Ther. 52:1, 1934.	647
280-500 76-118 120-240			Smyth, unpublished data. Mellon Inst. Ibid Ibid	648
			Walker, J. Pharm. Exp. Ther. 101:369, 1951.	649
			Röthlin, Helvet. physiol. acta 2:48, 1944. Ibid Ibid Ibid	650
			Unna, J. Pharm. Exp. Ther. 80:39, 53, 1944.	651
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	652
150-290			Eddy, J. Pharm. Exp. Ther. 52:448, 1934. Eddy, J. Pharm. Exp. Ther. 66:182, 1939.	653
			Ambrose, J. Am. Pharm. Assoc. 42:364, 1953. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	654
			Bovet & Bovet-Nitti. ³	655
			Hartung, J. Am. Chem. Soc. 53:4149, 1931.	656
			Hartung, J. Am. Chem. Soc. 53:4149, 1931.	657
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	658
1430-8860 2, 510-12, 800			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	659
3750-6460 8.7-22.9 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	660
			Berger, Arch. int. pharmacod. 85:474, 1951.	661
4690-7060			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	662
		10 da	Mine, Arch. Ind. Hyg. Occ. Med. 2:579, 1950.	663

Système Nerveux Végétatif, " New York: S. Karger, 1948.

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
664 Diisopropylamine	Rat	or	LD ₅₀	770
665 Diisopropyl fluorophosphate	Mouse	or	LD ₅₀	36.8±0.98
	Mouse	ct	LD ₅₀	72 ¹
	Mouse	sc	LD ₅₀	4.67±0.28 ²
	Mouse	sc	LD ₅₀	3.22±0.31 ³
	Mouse	sc	LD ₅₀	3.71-4.0
	Rat♀	or	LD ₅₀	7.7±0.64
	Rat♂	or	LD ₅₀	13.5±0.35
	Rat	or	LD ₅₀	5-10
	Rat	sc	LD ₅₀	3
	Rat	im	LD ₅₀	2
	Rabbit	or	LD ₅₀	4.0-9.78
	Rabbit	ct	LD	117 ¹
	Rabbit	im	LD ₅₀	0.75
	Rabbit	sc	LD ₅₀	1
	Rabbit	io	LD ₅₀	1.15 ¹
	Rabbit	ip	LD ₅₀	1
	Rabbit	iv	LD ₅₀	0.34±0.01
	Rabbit	iv	2/10 ⁴	0.3
	Rabbit	iv	10/12 ⁴	0.4
	Rabbit	iv	10/10 ⁴	0.5
	Rabbit	im	0/2 ⁴	0.5
	Rabbit	im	1/2 ⁴	0.75
	Rabbit	im		1
	Cat	iv		1.63±0.03
	Dog	sc	LD ₅₀	
	Dog	iv	LD ₅₀	3.43±0.62
	Monkey	iv	LD ₅₀	0.25-0.30
	Goat	sc	LD ₅₀	1
	Goat	iv	LD ₅₀	0.8
666 α,γ-Diisopropylglyceryl ether	Mouse	or	LD ₅₀	1860±58
667 2,2-Diisopropyl-4-hydroxy-methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	729.44±73.32
668 Di-2-isopropyl-5-methylphenoxy-ethyl-β-chloroethylamine	Mouse	sc	LD ₅₀	>1000
669 Diisopropyl tartrate	Mouse	or	LD ₅₀	6.3 cc
	Rat	or	LD ₅₀	6 cc
670 Dilantin	Mouse	ip	LD ₅₀	190±13
	Mouse	ip	LD ₅₀	200
	Rat	or	MLD	>2200
	Rat	ip	LD ₅₀	280
	Rat	iv	MLD	160
	Rabbit	iv	LD ₅₀	125
	Dog	iv	MLD	90
671 Dilaudid HCl	Mouse	sc	LD ₅₀	84.26 ⁵
	Mouse	iv	LD ₅₀	80-96

/1/ Pure. /2/ At 23°-25° C. /3/ At 4° C. /4/ No. animals died/no. animals tested. /5/ Base.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
610-940			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	664
	H ₂ O	48 hr	Horton, J. Pharm. Exp. Ther. 87:414, 1946.	665
		48 hr	Ibid	
	N saline	48 hr	Streicher, Proc. Soc. Exp. Biol. Med. 76:536, 1951.	
			Ibid	
	H ₂ O	48 hr	Horton, J. Pharm. Exp. Ther. 87:414, 1946.	
	H ₂ O		Frawley, J. Pharm. Exp. Ther. 105:156, 1952.	
	H ₂ O		Ibid	
	H ₂ O		Horton, J. Pharm. Exp. Ther. 87:414, 1946.	
	H ₂ O		Ibid	
	H ₂ O		Ibid	
	H ₂ O		Ibid	
	H ₂ O		McNamara, J. Pharm. Exp. Ther. 88:27, 1946.	
	H ₂ O		Horton, J. Pharm. Exp. Ther. 87:414, 1946.	
	Triacetin		Ibid	
	N saline		Ibid	
		3 1/4-4 hr	McNamara, J. Pharm. Exp. Ther. 88:27, 1946.	
		1/4-2 hr	Ibid	
		5-21 min	Ibid	
			Ibid	
		83 min	Ibid	
		3/4-4 1/2 hr	Ibid	
	Prop gly		Horton, J. Pharm. Exp. Ther. 87:414, 1946.	
	H ₂ O		Ibid	
	Prop gly		Ibid	
	N saline		Ibid	
	H ₂ O		Ibid	
	N saline		Ibid	
			Loeb, Fed. Proc. 8:316, 1949.	666
			Berger, Arch. int. pharmacod. 85:474, 1951.	667
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	668
			Draize, J. Pharm. Exp. Ther. 93:26, 1948.	669
			Ibid	
		72 hr	Way, J. Pharm. Exp. Ther. 81:265, 1946.	670
			Gruber, J. Pharm. Exp. Ther. 68:433, 1940.	
			Gruhsit, Arch. Path. 28:761, 1939.	
		2-72 hr	Gruber, J. Pharm. Exp. Ther. 68:433, 1940.	
			Gruhsit, Arch. Path. 28:761, 1939.	
			Gruber, J. Pharm. Exp. Ther. 68:433, 1940.	
			Gruhsit, Arch. Path. 28:761, 1939.	
		2-24 hr	Eddy, J. Pharm. Exp. Ther. 52:448, 1934.	671
			Buchwald, J. Pharm. Exp. Ther. 71:197, 1941.	

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
672	1,1-Dimethoxyethane	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	6500 20,000
673	6,7-Dimethoxy-1-(4'-ethoxy-3'-methoxybenzyl)-3-methylisoquinoline	Mouse Rat Rat	iv or or	LD ₅₀ LD ₅₀ LD ₅₀	112.7 ¹ 1961 ² 2060 ¹
674	Di-2-methoxyphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	40
675	3,4-Dimethoxyphenylethylamine	Mouse	ip	LD	420
676	Dimethylamine	Mouse Rabbit	sc iv	LD LD	2000 3000-5000
677	2-Dimethylaminobenzimidazole	Mouse	iv	LD ₅₀ *	80
678	2-Dimethylaminobenzothiazole	Mouse	iv	LD ₅₀	131±5
679	3-Dimethylamino-1,1-diphenyl-1-butanol	Mouse	sc	LD ₅₀	300
680	1-3-Dimethylamino-1,1-diphenyl-butylethylsulfone	Mouse	sc	LD ₅₀	175
681	6-Dimethylamino-4,4-diphenyl-3-heptanol	Mouse	sc	LD ₅₀	140
682	6-Dimethylamino-4,4-diphenyl-3-heptanone	Mouse	sc	LD ₅₀	40
683	6-Dimethylamino-4,4-diphenyl-3-heptanone	Mouse	sc	LD ₅₀	40
684	6-Dimethylamino-4,4-diphenyl-3-heptanone	Mouse	sc	LD ₅₀	40
685	7-Dimethylamino-4,4-diphenyl-3-heptanone	Mouse	sc	LD ₅₀	80
686	6-Dimethylamino-4,4-diphenyl-heptanone-3-acetylamine	Mouse	sc	LD ₅₀	600
687	6-Dimethylamino-4,4-diphenyl-3-heptanone methochloride	Mouse	sc	LD ₅₀	175
688	6-Dimethylamino-4,4-diphenyl-2-heptene	Mouse	sc	LD ₅₀	600
689	6-Dimethylamino-4,4-diphenyl-3-hexanone	Mouse	sc	LD ₅₀	65
690	3-Dimethylamino-1,1-diphenyl-3-methylbutane	Mouse	sc	LD ₅₀	80
691	4-Dimethylamino-2,2-diphenyl-3-methylbutanoate ethylester	Mouse	sc	LD ₅₀	150
692	4-Dimethylamino-2,2-diphenyl-3-methylbutyronitrile	Mouse	sc	LD ₅₀	400

/1/ Phosphate. /2/ Hydrochloride. /3/ Bovet and Bovet-Nitti. "Médicaments du Système

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
5680-7460			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	672
			Henderson, J. Am. Pharm. Assoc. <u>40:207</u> , 1951. Ibid Ibid	673
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	674
			Epstein, J. Physiol. <u>76:224</u> , 1932.	675
			Bovet & Bovet-Nitti. ³ Ibid	676
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	677
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	678
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	679
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	680
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	681
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	682
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	683
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	684
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	685
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	686
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	687
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	688
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	689
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	690
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	691
			Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950.	692

Nerveux Végétatif," New York: S. Karger, 1948.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
693	6-Dimethylamino-4,4-diphenyl-5-methyl-3-hexanol	Mouse	sc	LD ₅₀	160
694	6-Dimethylamino-4,4-diphenyl-5-methyl-3-hexanone	Mouse	ip	LD ₅₀	150
695	6-Dimethylamino-4,4-diphenyl-5-methyl-3-hexanone	Mouse	sc	LD ₅₀	70
696	6-Dimethylamino-4,4-diphenyl-5-methyl-3-hexanone	Mouse	sc	LD ₅₀	60
697	6-Dimethylamino-4,4-diphenyl-5-methylhexanone-3-acetylamine	Mouse	sc	LD ₅₀	300
698	6-Dimethylamino-4,4-diphenyl-5-methylhexanone-3-ketimine	Mouse	sc	LD ₅₀	150
699	6-Dimethylamino-4,4-diphenyl-5-methyl-3-hexanone methochloride	Mouse	sc	LD ₅₀	175
700	3-Dimethylamino-1,1-diphenyl-3-methylpropane	Mouse	sc	LD ₅₀	200
701	3-Dimethylamino-1,1-diphenyl-2-methyl-1-propanol	Mouse	sc	LD ₅₀	325
702	4-Dimethylamino-2,2-diphenylpentanoate ethylester	Mouse	sc	LD ₅₀	110
703	4-Dimethylamino-2,2-diphenylpentanoate isopropylester	Mouse	sc	LD ₅₀	200
704	4-Dimethylamino-2,2-diphenylpentanoate methylester	Mouse	sc	LD ₅₀	90
705	4-Dimethylamino-2,2-diphenylvaleronitrile	Mouse	sc	LD ₅₀	150
706	3-Dimethylamino-1,1-di-(2'-thienyl)butane	Mouse	or	LD ₅₀	233 ¹
		Mouse	sc	LD ₅₀	158 ¹
707	3-Dimethylamino-1,1-di-(2'-thienyl)butene	Mouse	or	LD ₅₀	199 ¹
		Mouse	sc	LD ₅₀	98 ¹
708	β-Dimethylaminoethylcumate	Mouse	ip	LD ₅₀	376±18.8
709	Dimethyl-bis-β-chloroethylammonium chloride	Mouse	sc	LD ₅₀	100-200
710	N,N'-Dimethyl-N,N'-bis-(β-chloroethyl)-piperazinumdichloride	Mouse	sc	LD ₅₀	500
711	Dimethyl-1-carbomethoxy-1-propen-2-yl phosphate	Mouse ¹	or	LD ₅₀	7.8
		Mouse ²	or	LD ₅₀	4.32
		Rat ¹	or	LD ₅₀	6.8
		Rat ²	or	LD ₅₀	6

/1/ Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	693
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	694
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	695
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	696
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	697
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	698
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	699
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	700
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	701
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	702
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	703
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	704
			Eddy, J. Pharm. Exp. Ther. <u>98:121, 1950.</u>	705
227-239 149-168			Eddy, J. Pharm. Exp. Ther. <u>107:385, 1953.</u> Ibid	706
184-215 93-103			Eddy, J. Pharm. Exp. Ther. <u>107:385, 1953.</u> Ibid	707
			Williams, J. Am. Pharm. Assoc. <u>40:449, 1951.</u>	708
			Anslow, J. Pharm. Exp. Ther. <u>91:224, 1947.</u>	709
			Anslow, J. Pharm. Exp. Ther. <u>91:224, 1947.</u>	710
6.8-8.9 2.7-6.9 5.4-8.6 5.2-7.0			Kodama, Arch. Ind. Hyg. Occ. Med. <u>9:45, 1954.</u> Ibid Ibid Ibid	711

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
711	Dimethyl-1-carbomethoxy-1-propen-2-yl phosphate (concluded)	Rat? Rabbit	ip ct	LD ₅₀ LD ₅₀	1.51 33.8
712	N, N'-Dimethyl-2-chloro-2-phenylethylamine	Rat Cat	iv iv		3.9±0.3 2.1±0.2
713	4, 6-Dimethylcoumalin	Mouse	ip	LD ₅₀	750
714	2, 6-Dimethyl-1, 1-diethylpiperidinium bromide	Mouse Mouse Rat Dog	or ip or iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	365±40 40±6 2000±310 20-25
715	Dimethyldiethylpyrophosphate	Mouse	ip	LD ₅₀	1.1
716	Dimethyldiisopropylpyrophosphate	Mouse	ip	LD ₅₀	2.5
717	Dimethyldioxane	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3000 >10,000
718	o-m'-Dimethyldiphenylmethylether of β-Dimethylaminoethanol	Mouse	ip	LD ₅₀	90±2
719	Dimethylformamide	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	7000 5000
720	Dimethylfuran	Rat Guinea pig	or ct	LD ₅₀ LD ₅₀	300 1000
721	2, 6-Dimethylheptanol-4	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3160 >10,000
722	2, 2-Dimethyl-4-hydroxymethyl-1, 3-dioxolane	Mouse	ip	LD ₅₀	>2112
723	(2, 4-Dimethyl-3-hydroxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	16±1
724	(2, 4-Dimethyl-5-hydroxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	14±2
725	(3, 4-Dimethyl-5-methoxyphenyl)-trimethylammonium iodide	Mouse	iv	LD ₅₀	5±1
726	Dimethylnicotinium diiodide	Mouse Rabbit	ip iv	LD LD	435 >200
727	Dimethyl-p-nitrophenyl phosphate	Frog Mouse Mouse Rat	sc sc sc or	MLD MLD MLD MLD	50 2.7 1.4-2.0 3.4-6.8
728	O, O-Dimethyl-S-(p-nitrophenyl)-phosphate (continued on next page)	Frog Mouse	sc sc	MLD MLD	50-75 7.5-10.0

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
1.34-1.71 12.6-55.0			Kodama, Arch. Ind. Hyg. Occ. Med. 9:45, 1954. Ibid	711
			Ferguson, J. Pharm. Exp. Ther. 100:100, 1950. Ibid	712
			Brodersen, Acta pharm. tox. 2:109, 1946.	713
			Cook, J. Pharm. Exp. Ther. 99:435, 1950. Ibid Ibid Ibid	714
			DuBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952.	715
			DuBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952.	716
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	717
			Ensor, J. Pharm. Exp. Ther. 112:318, 1954.	718
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	719
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid	720
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	721
			Berger, Arch. int. pharmacod. 85:474, 1951.	722
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	723
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	724
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	725
			Larson, J. Pharm. Exp. Ther. 77:343, 1943. Ibid	726
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+cello		Hecht, Arch. exp. Path. Pharm. 7:1:264, 1950. Ibid Ibid Ibid	727
	H ₂ O+cello H ₂ O+cello		Hecht, Arch. exp. Path. Pharm. 211:264, 1950. Ibid	728

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
728	O, O-Dimethyl-S-(p-nitrophenyl)-phosphate (concluded)	Mouse Rat	sc or	MLD MLD	20-50 45
729	O, S-Dimethyl-O-(p-nitrophenyl)-phosphate	Frog Mouse Mouse Rat	sc sc sc or	MLD MLD MLD MLD	70-80 90-100 35 200
730	Dimethyl-p-nitrophenylthiophosphate	Frog Mouse Mouse Rat	sc sc sc or	MLD MLD MLD MLD	250 50-100 30 15-20
731	O, sym. - Dimethyl-p-nitrophenyl-phosphate	Frog Mouse Mouse Rat	sc sc sc or	MLD MLD MLD MLD	70-80 90-100 35 200
732	Dimethylparathion	Rat Rabbit	or ct	LD ₅₀ * LD ₅₀ *	15.2 300-400
733	Di-2-methylphenoxyethylamine	Mouse	sc	LD ₅₀ *	850
734	Di-2-methylphenoxyethylaminoethanol	Mouse	sc	LD ₅₀ *	>1000
735	Di-2-methylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀	>1000
736	Di-3-methylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
737	Di-4-methylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	1000
738	3,4-Dimethylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
739	Di-2-methylphenoxyethyl-β-ethanolamine	Mouse	sc	LD ₅₀	>1000
740	3,4-Dimethylphenoxyethylbenzyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
741	3,5-Dimethylphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
742	Di-2-methylphenoxyethylethylamine	Mouse	sc	LD ₅₀ *	1000
743	3,4-Dimethylphenoxyethyl-ethyl-β-chloroethylamine	Mouse	sc	LD ₅₀	35
744	2,5-Dimethylphenylisopropylamine	Mouse	ip	LD ₅₀	200
745	3,4-Dimethylphenylisopropylamine	Mouse	ip	LD ₅₀	83
746	1,1-Dimethyl-4-phenylpiper-azinium iodide	Mouse Rabbit	im iv	LD ₅₀ LD ₅₀ *	27.5 1

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Oil H ₂ O+det		Hecht, Arch. exp. Path. Pharm. <u>211:264</u> , 1950. Ibid	728
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. <u>211:264</u> , 1950. Ibid Ibid Ibid	729
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. <u>211:264</u> , 1950. Ibid Ibid Ibid	730
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. <u>211:264</u> , 1950. Ibid Ibid Ibid	731
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951. Ibid	732
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	733
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	734
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	735
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	736
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	737
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	738
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	739
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	740
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	741
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	742
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	743
			Marsh, J. Pharm. Exp. Ther. <u>100:290</u> , 1950.	744
			Marsh, J. Pharm. Exp. Ther. <u>100:290</u> , 1950.	745
		20 min 2 min	Chen, J. Pharm. Exp. Ther. <u>101:330</u> , 1951. Ibid	746

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
747	Di-2-methylphenylthioethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
748	Dimethyl phthalate	Mouse	or	LD ₅₀	7.2 cc
		Mouse	sc	MLD*	6000
		Mouse	ip	LD ₅₀	3640
		Rat	or	LD ₅₀	6.9 cc
		Guinea pig	or	LD ₅₀	2.4 cc
		Rabbit	or	LD ₅₀	4.4 cc
		Chicken	or	LD ₅₀	8.5 cc
749	2,5-Dimethylpiperazine	Rat	or	LD ₅₀	3510
		Rabbit	ct	LD ₅₀	800
750	Dimethyl selenide	Mouse	ip	LD ₅₀	1800
		Rat	ip	LD ₅₀	2200
751	Dimethyl sulfate	Rat	or	LD ₅₀	440
		Rabbit	or	LD	50
		Rabbit	sc	LD	50
		Rabbit	sc	LD	50-60
		Rabbit	iv	LD	55 ¹
752	2,4-Dimethylsulfolane	Mouse	ip	LD ₅₀	81
753	Dimethyltetrahydrophthalate	Rat	or	LD ₅₀	700
754	3,5-Dimethyltetrahydropyrone-1,4	Rat	or	LD ₅₀	3400
755	N,N-Dimethylthymoxycetamide HCl	Rat	iv	LD ₅₀	46 ²
756	p-Dinitrobenzene	Cat	or	LD	29.4
757	4,6-Dinitro-o-cresol	Mouse	sc	LD ₅₀	24.2
		Rat	or	LD ₅₀	30
		Rat	or	LD ₅₀ *	26
		Rat	sc	LD ₅₀	24.6
		Guinea pig	ct	LD ₁₀₀	500
		Dog	iv	LD	15
		Dog	im	LD	5
		Dog	ip	LD	10
		Pigeon	im	LD	5
758	4,6-Dinitro-o-cresol sodium	Rat	or	LD ₁₀₀	40
		Rat	sc	LD ₅₀ *	30
759	2,4-Dinitro-6-cyclohexylphenol	Mouse	or	MLD	50-125
		Mouse	sc	MLD	30-45
		Rat	or	LD ₁₀₀	180
		Guinea pig	or	LD ₁₀₀	125
		Guinea pig	sc	LD ₃₀	20
		Guinea pig	ct	LD ₁₀₀	>1000
		Dog	sc	LD	8
		Pigeon	im	LD	5
		Pigeon	iv	LD	6-7

/1/ Neutral. /2/ Injected over period of 31 minutes.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	747
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Eller, Dissert., Wurzburg 1939. Karel, Fed. Proc. <u>6:342</u> , 1947. Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid Ibid Ibid	748
3180-3880			Smyth, unpublished data, Mellon Inst. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	749
			McConnell, Proc. Soc. Exp. Biol. Med. <u>79:230</u> , 1952. Ibid	750
430-450		17 hr 2 hr 3-4 hr 4 hr	Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Weber, Arch. exp. Path. Pharm. <u>47:113</u> , 1902. Ibid Michels, Arch. int. pharmacod. <u>21:467</u> , 1911. Weber, Arch. exp. Path. Pharm. <u>47:113</u> , 1902.	751
			McOnie, Fed. Proc. <u>6:357</u> , 1947.	752
			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	753
			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	754
			Craver, Am. J. Dig. Dis. <u>10:241</u> , 1951.	755
		24 hr	White, Lancet <u>2:582</u> , 1901.	756
21.5-27.3 25-37 23.1-26.1	Alcohol	1-2 hr 50 min	Parker, Brit. J. Indust. M. <u>8:226</u> , 1951. Spencer, J. Ind. Hyg. Tox. <u>30:10</u> , 1948. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951. Parker, Brit. J. Indust. M. <u>8:226</u> , 1951. Spencer, J. Ind. Hyg. Tox. <u>30:10</u> , 1948. Heymans, Arch. int. pharmacod. <u>50:20</u> , 1935. Ibid Ibid Tainter, J. Pharm. Exp. Ther. <u>53:58</u> , 1935.	757
		1-8 hr 2-2½ hr	Ambrose, J. Pharm. Exp. Ther. <u>76:245</u> , 1942. Ibid	758
	Oil Oil Oil Oil	1-2 hr 30 min 8-10 min	Hrenoff, Univ. Cal. Publ. Pharmacol. <u>1:151</u> , 1939. Ibid Spencer, J. Ind. Hyg. Tox. <u>30:10</u> , 1948. Hrenoff, Univ. Cal. Publ. Pharmacol. <u>1:151</u> , 1939. Ibid Spencer, J. Ind. Hyg. Tox. <u>30:10</u> , 1948. Heymans, Arch. int. pharmacod. <u>50:20</u> , 1935. Tainter, J. Pharm. Exp. Ther. <u>53:58</u> , 1935. Heymans, Arch. int. pharmacod. <u>50:20</u> , 1935.	759

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
760	2, 4-Dinitro-o-cyclohexylphenol- dicyclohexylamine	Rat	or	LD50 *	330
761	2, 4-Dinitro-a-naphthol	Frog Guinea pig Dog Pigeon Pigeon	sc sc iv im ip	LD LD LD LD50 LD	60 80-100 30-60 18.5 15
762	2, 4-Dinitrophenol	Frog Rat Rat Rabbit Rabbit Rabbit Dog Dog Dog Dog Dog Pigeon Pigeon	sc or sc or sc ip or sc sc im iv im iv	LD LD50 LD50 LD50 LD LD LD50 LD50 LD50 LD50 LD50 LD LD	10 ¹ 30 25 200 30 100 20-30 22 10 ¹ 20 30 7 15-20 ¹
763	2, 4-Dinitrotoluene	Cat Cat	or sc	MLD LD	27 50-500
764	2, 6-Dinitrotoluene	Cat	ip	LD	60
765	Diocanol-2-phthalate	Mouse	ip	LD50 *	920
766	Diodrast	Dog	iv	LD	2000
767	Dionin	Frog Mouse Guinea pig	sc sc sc	LD LD LD	130 200 150
768	Dioxalane	Rat	or	LD50	3000
769	1, 4-Dioxane	Mouse Mouse Rat Rat Rat Guinea pig Guinea pig Rabbit Rabbit	or ip or or or or or or et	LD50 LD50 LD50 LD50 * LD50 LD50 LD50 LD50 LD50	5830 790 5325 6000 7120 3150 4017 2170 7600
770	4, 6-Dioxo-2-methylidihydropyran	Mouse	ip	LD50	>3000
771	Diparcol (base)	Mouse Mouse Mouse Mouse Mouse Rabbit	or sc sc iv iv sc	LD50 LD50 LD50 LD50 LD50 LD50	450 450 450 5 40-50 150-200

(continued on next page)

/1/ Sodium salt.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	760
		30 min 15-30 min 30 min	Mathews, J. Pharm. Exp. Ther. 2:200, 1910. Cazeneuve & Lépine quoted by Mathews. Ibid Tainter, J. Pharm. Exp. Ther. 53:58, 1935. Heymans, Arch. int. pharmacod. 50:20, 1935.	761
22-40		3½ hr 1-2 hr 40 min 3 hr 36 min	Magne, Ann. physiol., Par. 8:1, 1932. Spencer, J. Ind. Hyg. Tox. 30:10, 1948. Tainter, J. Pharm. Exp. Ther. 49:187, 1933. Magne, Ann. physiol., Par. 8:1, 1932. Tainter, J. Pharm. Exp. Ther. 49:187, 1933. Magne, Ann. physiol., Par. 8:1, 1932. Tainter, J. Pharm. Exp. Ther. 49:187, 1933. Ibid Magne, Ann. physiol., Par. 8:1, 1932. Tainter, J. Pharm. Exp. Ther. 49:187, 1933. Ibid Ibid Heymans, Arch. int. pharmacod. 50:20, 1935.	762
	Oil	2-23 da	White, Lancet 2:582, 1901. Kuhls, Dissert., Würzburg 1905.	763
			Von Bredow, Arch. exp. Path. Pharm. 200:335, 1942.	764
		24 hr	Hodge, Proc. Soc. Exp. Biol. Med. 49:471, 1942.	765
		20 min	Henthcote, Brit. J. Radiol. 6:304, 1933.	766
			Flury, Abderhalden's Hdb. 4. 76:1344. Ibid Ibid	767
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	768
6015-5655 5686-4985 6380-8050 2720-3650 3800-4244 1820-2580 5930-9730		1-5 da 1-5 da 2 wk 1-5 da	Laug, J. Ind. Hyg. Tox. 21:173, 1939. Karel, Fed. Proc. 6:342, 1947. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Smyth, unpublished data, Mellon Inst. Smyth, J. Ind. Hyg. Tox. 23:239, 1941. Ibid Laug, J. Ind. Hyg. Tox. 21:173, 1939. Smyth, unpublished data, Mellon Inst. Ibid	769
			Brodersen, Acta pharm. tox. 2:109, 1946.	770
			Bovet, Therapie 21:115, 1947. Ibid Fournel, J. physiol., Par. 42:877, 1950. Bovet, Therapie 21:115, 1947. Fournel, J. physiol., Par. 42:877, 1950. Bovet, Therapie 21:115, 1947.	771

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
771	Diparcol (base) (concluded)	Rabbit	iv	LD ₅₀	25
772	Diphenoxethylbenzyl- <i>p</i> -chloroethylamine	Mouse	sc	LD ₅₀ *	125
773	Diphenoxethyl- <i>p</i> -chloroethylamine	Mouse	sc	LD ₅₀ *	25
774	a, a-Diphenyl- γ -dimethylamino- valeramide HCl	Mouse	or	LD ₅₀	395.82 $\pm$ 48.6
		Mouse	iv	LD ₅₀	34.73 $\pm$ 2.0
775	a, a-Diphenyl- γ -dimethylamino- valeramidemethylodide	Mouse	or	LD ₅₀	>600
		Mouse	iv	LD ₅₀	19.41 $\pm$ 1.4
776	Diphenylguanidine	Rat	sc	MLD	50
		Guinea pig	sc	MLD	200
		Dog	iv	MLD	25
777	Diphenylmethyl ether of β -Methylaminoethanol	Mouse	ip	LD ₅₀	73 $\pm$ 1
778	Diphenylthiourea	Rabbit	or	MLD	1500
779	Dipropamine	Mouse	sc	LD ₅₀	2.2 $\pm$ 0.3
780	Dipropylene glycol	Mouse	ip	LD ₅₀	4600
		Rat	or	LD ₅₀	14,850
		Rat	ip	LD ₅₀	10,590
		Rat	iv	LD ₅₀	5800
		Dog	iv	LD	11,787
781	Dipropylene glycol methyl ether	Rat	or	LD ₅₀	5.4 cc
782	2, 2-Di-n-propyl-4-hydroxymethyl- 1, 3-dioxolone	Mouse	ip	LD ₅₀	729.44 $\pm$ 69.5
783	N, N-Dipropylsuccinamic acid ethylester	Mouse	or	LD ₅₀	3.6 cc
		Rat	or	LD ₅₀	6.2 cc
784	Disodium phosphate	Rat	ip	LD	2000
785	Disulfur decafluoride, S ₂ F ₁₀	Rabbit	iv	LD ₅₀	5.79 $\pm$ 0.61 ¹
786	Dithane	Rat	or	LD ₅₀ *	5000
787	Dithane D14	Rat	or	LD ₅₀	395 $\pm$ 12
788	Dithane Z78	Rat	or	LD ₅₀	>5200
789	Di-o-toluythiourea	Rabbit	or	MLD	3000
790	Divaricoside	Cat	iv	LD ₅₀	0.1653
791	Dolan	Mouse	or	LD ₅₀	1100
		Mouse	ip	LD ₅₀	950
792	Dormison	Mouse	or	LD ₅₀	698
		Rat	or	LD ₅₀	300-900
		Guinea pig	or	LD ₅₀	534

71/ Emulsion.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Bovet, <i>Thérapie</i> 21:115, 1947.	771
		10 da	Nickerson, <i>J. Pharm. Exp. Ther.</i> 101:379, 1951.	772
		10 da	Nickerson, <i>J. Pharm. Exp. Ther.</i> 101:379, 1951.	773
			Cazort, <i>J. Pharm. Exp. Ther.</i> 100:325, 1950. Ibid	774
			Cazort, <i>J. Pharm. Exp. Ther.</i> 100:325, 1950. Ibid	775
	Prop gly Prop gly	15 min	Alles, <i>J. Pharm. Exp. Ther.</i> 28:251, 1926. Valade, <i>C. rend. Soc. biol.</i> 143:815, 1949. Ibid	776
			Ensor, <i>J. Pharm. Exp. Ther.</i> 112:318, 1954.	777
			Hanslik, <i>J. Pharm. Exp. Ther.</i> 17:349, 1921.	778
			Winter, <i>J. Pharm. Exp. Ther.</i> 100:489, 1950.	779
10,650-20,720 15,940-17,930	N saline		Karel, <i>Fed. Proc.</i> 6:342, 1947. Shaffer, <i>Arch. Ind. Hyg. Occ. Med.</i> 3:448, 1951. Ibid Hanslik, <i>J. Pharm. Exp. Ther.</i> 67:101, 1939.	780
4.9-5.9 cc			Rowe, <i>Arch. Ind. Hyg. Occ. Med.</i> 9:509, 1954.	781
			Berger, <i>Arch. int. pharmacod.</i> 85:474, 1951.	782
			Draize, <i>J. Pharm. Exp. Ther.</i> 93:26, 1948. Ibid	783
			Abelles, <i>Biochem. Zachr.</i> 163:226, 1925.	784
			Saunders, <i>Arch. Ind. Hyg. Occ. Med.</i> 8:436, 1953.	785
			Lehman, <i>Q. Bull. Assoc. P. & D. Off.</i> 15:120, 1951.	786
			Smith, <i>Fed. Proc.</i> 11:391, 1952.	787
			Smith, <i>J. Pharm. Exp. Ther.</i> 109:159, 1953.	788
	N saline		Hanslik, <i>J. Pharm. Exp. Ther.</i> 17:349, 1921.	789
Q1210-Q2349	Alcohol		Chen, <i>J. Pharm. Exp. Ther.</i> 111:365, 1954.	790
			Spencer, <i>Fed. Proc.</i> 12:368, 1953. Ibid	791
			Schering advertisement. Schaffarick, <i>Science</i> 116:663, 1952. Schering advertisement.	792

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
793	Dowicide	Rat	or	LD ₅₀	2.7
794	Dromoran HBr	Mouse	sc	LD ₅₀	153±12
		Mouse	ip	LD ₅₀	120±18
		Mouse	iv	LD ₅₀	41±5
		Rat	sc	LD ₅₀	125±11
		Rabbit	iv	LD ₅₀	19±1.7
795	Dulcin	Dog	or	LD	1000
796	Dypnone	Rat	or	LD ₅₀	3600
		Rabbit	ct	LD ₅₀	6300
797	E 838	Mouse	or	LD ₅₀	98.5±5.0
		Rat ^o	or	LD ₅₀	42.0±3.1
		Rat ⁹	or	LD ₅₀	19.0±2.5
		Guinea pig	or	LD ₅₀	25.0±2.3
		Rabbit	ct	LD ₅₀ *	300
798	Echubioside	Cat	iv	LD ₅₀	0.2902
799	Echujin	Cat	iv	LD ₅₀	0.3035
800	EFED	Rat?	ip	LD ₅₀	250
801	EL-60	Rat?	ip	LD ₅₀	6000
802	Emcol 888	Mouse	or	LD ₅₀	470
		Mouse	iv	LD ₅₀	8
903	Emetine	Frog	or	MLD	20 ¹
		Frog	sc	MLD	20 ¹
		Frog	iv	MLD	10 ¹
		Mouse	sc	MLD	20 ¹
		Mouse	ip	LD ₅₀	62±2.3
		Rat	or	MLD	<100 ²
		Ra ^o	sc	LD	12
		Rat	sc	MLD	20 ¹
		Rat	im	MLD	<15
		Rat	ip	LD ₅₀	17.2±1.4
		Rat	iv	MLD	<15
		Guinea pig	or	MLD	20 ¹
		Guinea pig	sc	MLD	20 ¹
		Guinea pig	sc	LD	16
		Guinea pig	im	MLD	20 ¹
		Guinea pig	iv	MLD	3 ¹
		Guinea pig	iv	LD	7
		Rabbit	or	MLD	15-20 ²
		Rabbit	or	MLD	20 ¹
		Rabbit	sc	MLD	15-20 ¹
		Rabbit	sc	MLD	30
		Rabbit	im	MLD	15 ¹
		Rabbit	iv	MLD	5
		Rabbit	iv	MLD	2.5 ¹
		Cat	or	LD	15-20 ²

(continued on next page)

/1/ 2.5% solution in H₂O. /2/ Hydrochloride.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
2.4-3.1			Hodge, J. Pharm. Exp. Ther. <u>104</u> :202, 1952.	793
			Rardall, J. Pharm. Exp. Ther. <u>99</u> :163, 1950.	794
			Ibid	
			Ibid	
			Ibid	
			Flury, Abderhalden's Hdb. 4.7b:1345.	795
			Smyth, J. Ind. Hyg. Tox. <u>31</u> :60, 1949.	796
			Ibid	
			Frawley, J. Pharm. Exp. Ther. <u>105</u> :156, 1952.	797
			Ibid	
			Ibid	
			Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>16</u> :3, 1952.	
0.2159-0.4152	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	798
0.2275-0.3634	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	799
			Mallette, Arch. Ind. Hyg. Occ. Med. <u>5</u> :311, 1952.	800
			Mallette, Arch. Ind. Hyg. Occ. Med. <u>5</u> :311, 1952.	801
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>18</u> :43, 1954.	802
			Ibid	
	H ₂ O	24 hr	Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	803
	H ₂ O	24 hr	Ibid	
	H ₂ O	1-3 min	Ibid	
	H ₂ O	24 hr	Ibid	
			Gimble, J. Pharm. Exp. Ther. <u>94</u> :431, 1948.	
			Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1938.	
			Walters, J. Pharm. Exp. Ther. <u>10</u> :73, 1917.	
	H ₂ O	24 hr	Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
			Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1938.	
			Gimble, J. Pharm. Exp. Ther. <u>94</u> :431, 1948.	
			Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1938.	
	N saline		Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
			Walters, J. Pharm. Exp. Ther. <u>10</u> :73, 1917.	
	H ₂ O	24 hr	Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
	H ₂ O		Ibid	
			Flury, Abderhalden's Hdb. 4.7b:1346.	
		15 da	Anderson, Am. J. Trop. Med. <u>10</u> :249, 1930.	
	H ₂ O	24 hr	Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
	H ₂ O	24 hr	Ibid	
			Flury, Abderhalden's Hdb. 4.7b:1346.	
	H ₂ O	24 hr	Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
		2-4 da	Walters, J. Pharm. Exp. Ther. <u>94</u> :431, 1948.	
	H ₂ O		Guglielmetti, Presse Méd. <u>26</u> :43, 1918.	
		15 da	Anderson, Am. J. Trop. Med. <u>10</u> :249, 1930.	

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
803 Emetine (concluded)	Cat	sc	MLD	20 ¹
	Dog	or	MLD	7.5-10 ¹
	Dog	sc	MLD	5.0-7.5 ¹
	Dog	im	MLD	5.0-7.5 ¹
	Dog	iv	MLD	2.5-3.5 ¹
	Pigeon	sc	MLD	20 ¹
	Pigeon	im	MLD	20 ¹
804 Emulsept	Mouse	or	LD ₅₀	2500
	Mouse	iv	LD ₅₀	20
805 Endothal	Rat	or	LD ₅₀ *	35.5
	Rabbit	ct	LD ₅₀ *	100 ²
806 Eosin (YS, yellowish)	Frog	sc	LD	1000
	Mouse	sc	LD	450
	Rat	ip	LD ₅₀ *	500
	Guinea pig	or	LD	5000
	Guinea pig	sc	LD	300
	Guinea pig	ip	LD	250
	Rabbit	iv	LD ₅₀ *	300
807 Ephedrine	Frog	sc	MLD	530-690
	Frog	sc	MLD	600
	Mouse	or	LD	400
	Mouse	sc	LD	1000
	Mouse	sc	LD	500 ³
	Mouse	ip	MLD*	400 ³
	Mouse	iv	LD	200
	Rat	or	MLD	160
	Rat	ip	LD	800
	Rat	iv	MLD	135-140
	Rat	sc	MLD	1500
	Guinea pig	sc	LD	400
	Guinea pig	sc	MLD	400-425
	Rabbit	or	MLD	590
	Rabbit	sc	MLD	320-400 ³
	Rabbit	sc	MLD	300-460 ⁴
	Rabbit	ip	MLD	310-430 ³
	Rabbit	im	MLD	340 ³
	Rabbit	iv	MLD	66-70 ³
	Rabbit	iv	MLD	50-70 ³
	Cat	iv	MLD	60
	Cat	iv	MLD	75 ³
	Dog	sc	MLD	220 ⁴
	Dog	iv	MLD	70-75 ³
808 Epinephrine	Frog	sc	LD	800-850 ⁵
	Frog	sc	LD	440-460 ⁶
	Mouse	or	LD	50

(continued on next page)

/1/ 2.5% solution in H₂O. /2/ 2% solution in H₂O. /3/ Ephedrine sulfate. /4/ Ephedrine Nittl, "Médicaments du Système Nerveux Végétatif," New York: S. Karger, 1948.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
	H ₂ O	24 hr	Guglielmetti, Presse Méd. 26:43, 1918.	803
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
	H ₂ O	24 hr	Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	804
			Ibid	
	H ₂ O		Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	805
			Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952.	
			Flury, Abderhalden's Hdb. 4.7b:1347.	806
			Ibid	
		7-19 hr	Emerson, Leprosy 2:257, 1934.	
			Flury, Abderhalden's Hdb. 4.7b:1347.	
		24 hr	Ibid	
			Emerson, Int. J. Leprosy 2:257, 1934.	807
		15-20 hr	Chen, J. Pharm. Exp. Ther. 27:61, 1926.	
		3 hr	Kreitmaier, Arch. exp. Path. Pharm. 120:189, 1927.	
			Ibid	
			Chen, J. Am. Med. Assoc. 87:836, 1926.	
		2 min	Rowe, J. Am. Pharm. Assoc. 16:912, 1927.	
			Kreitmaier, Arch. exp. Path. Pharm. 120:189, 1927.	
			Hauschild, Arch. exp. Path. Pharm. 191:465, 1926.	
			Ibid	
		24 hr	Chen, J. Pharm. Exp. Ther. 27:61, 1926.	
		15-20 hr	Kreitmaier, Arch. exp. Path. Pharm. 187:607, 1937.	
			Kreitmaier, Arch. exp. Path. Pharm. 120:189, 1927.	
			Chen, J. Pharm. Exp. Ther. 27:61, 1926.	
			Ibid	
			Chen, J. Am. Med. Assoc. 87:836, 1926.	
			Ibid	
			Ibid	
			Ibid	
			Kreitmaier, Arch. exp. Path. Pharm. 120:189, 1927.	
			Ibid	
			Chen, J. Am. Med. Assoc. 87:836, 1926.	
			Ibid	
			Ibid	
			Fühner, Arch. exp. Path. Pharm. 166:455, 1932.	808
			Ibid	
			Bovet & Bovet-Nitti. 7	

hydrochloride. /5/ Epinephrine bitartrate. /6/ Epinephrine base. /7/ Bovet and Bovet-

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
808 Epinephrine (concluded)	Mouse	sc	LD	1-1.5
	Mouse	sc	LD	7.1-8.2 ²
	Mouse	id	LD ₅₀	4 ³
	Rat	or	LD	30
	Rat	sc	LD	5-10
	Rat	ip	LD	10
	Rat	iv	LD	0.005-0.05
	Guinea pig	sc	LD	0.8-2.0
	Guinea pig	iv	LD	0.1-0.2
	Guinea pig	iv	LD	0.1-0.2
	Rabbit	or	LD	30
	Rabbit	sc	LD	10-20
	Rabbit	iv	LD	0.2-0.3
	Rabbit	iv	LD	0.1-0.2
	Cat	sc	LD	20
	Cat	iv	LD	0.5-8.0
	Cat	iv	LD	0.5-0.8
	Dog	sc	LD	5-6
	Dog	iv	LD	0.2-2.0
	Dog	iv	LD	0.1-0.2
809 D-Epinephrine	Mouse	sc	LD ₅₀	12.56±0.77
	Rat	sc	LD ₅₀	80-120
	Rabbit	sc	LD	6.3-7.0
810 DL-Epinephrine	Mouse	sc	LD	16
	Mouse	sc	LD	12-16
	Rabbit	iv	LD	0.25-0.3
	Rabbit	iv	LD	0.5-0.6
811 L-Epinephrine	Mouse	sc	LD	6
	Mouse	sc	LD ₅₀	1.47±0.14
	Rat	sc	LD	5
	Rat	sc	LD	10-20
	Guinea pig	sc	LD	1
	Rabbit	sc	LD	10-20
	Rabbit	iv	LD	0.05-0.4
	Cat	iv	LD	0.5-0.8
	Dog	sc	LD	5-6
	Dog	iv	LD	1-2
812 EPN	Mouse	or	LD ₅₀	45.5±3.1
	Rat♀	or	LD ₅₀	14.5±1.6
	Rat♂	or	LD ₅₀	91.0±8.6
	Guinea pig	or	LD ₅₀	79.0±7.6
813 1,2-Epoxy-3-chloropropane	Rat	or	LD ₅₀	90
814 Epoxymethylphenylacrylic acid ethyl ester	Mouse	or	LD ₅₀	5.6 cc
	Rat	or	LD ₅₀	6.1 cc
815 Erbium nitrate, Er(NO ₃) ₃ ·6H ₂ O	Rat	iv	LD ₁₀₀	82.8-96.6 ⁴
816 Ergobasine (continued on next page)	Mouse	iv	MLD	0.145
	Mouse	iv	MLD	250
	Mouse	iv	LD ₅₀	144±3.5

/1/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York: S. erblum metal.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		3-5 da	Bovet & Bovet-Nitti. ¹ Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Lands, J. Pharm. Exp. Ther. 90:110, 1947. Bovet & Bovet-Nitti. ¹ Ibid Raab, J. Pharm. Exp. Ther. 88:268, 1946. Bovet & Bovet-Nitti. ¹ Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1293. Bovet & Bovet-Nitti. ¹ Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1293. Bovet & Bovet-Nitti. ¹ Ibid Flury, Abderhalden's Hdb. 4.7b:1293. Bovet & Bovet-Nitti. ¹ Ibid Flury, Abderhalden's Hdb. 4.7b:1293.	808
		24 hr	Marquardt, Arch. exp. Path. Pharm. 202:658, 1943. Cushny, J. Physiol. 38:259, 1909. Marquardt, Arch. exp. Path. Pharm. 202:658, 1943.	809
			Schultz, J. Pharm. Exp. Ther. 1:291, 1909. Abderhalden, Zachr. physiol. Chem. 63:290, 1909. Ibid Ibid	810
4-8		24 hr	Marquardt, Arch. exp. Path. Pharm. 202:658, 1943. Ibid Flury, Abderhalden's Hdb. 4.7b:1294. Cushny, J. Physiol. 38:259, 1909. Flury, Abderhalden's Hdb. 4.7b:1294. Ibid Ibid Ibid Ibid	811
			Freasley, J. Pharm. Exp. Ther. 105:156, 1952. Ibid Ibid Ibid	812
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	813
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	814
			Maxwell, J. Pharm. Exp. Ther. 43:61, 1931.	815
			Röthlin, C. rend. Soc. biol. 119:1302, 1935. Davis, J. Pharm. Exp. Ther. 54:398, 1955. DeJongh, J. Pharm. Exp. Ther. 105:132, 1952.	816

Karger, 1948. /2/ Epinephrine base. /3/ Epinephrine hydrochloride. /4/ 30-35 mg/kg as

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
816	Ergobasine (concluded)	Rat	sc	MLD	0.5
		Guinea pig	iv	MLD	80
		Rabbit	iv	MLD	7.5
		Rabbit	iv	LD	1.8-2.9
		Rabbit	iv	LD	6
		Rooster	im	MLD	>10
817	Ergocornine	Rabbit	iv	LD	1.17
818	Ergocristine	Rabbit	iv	LD	1.5
819	Ergocryptine	Rabbit	iv	LD	1.05
820	Ergotamine	Mouse	iv	MLD	45
		Mouse	iv	LD ₅₀	52
		Rat	sc	MLD	100-150
		Rat	iv	LD ₅₀	62
		Guinea pig	iv	LD	>36
		Rabbit	iv	LD	2-3
		Rabbit	iv	LD	3.55
		Cat	sc	LD ₅₀	11
		Rooster	im	LD	2-3
821	Ergotamine tartrate	Mouse	iv	LD ₅₀	62
		Rat	iv	LD ₅₀	80
		Rabbit	iv	LD ₅₀	3.55
		Cat	sc	LD	11
822	Ergotoxine	Mouse	sc	LD	107 ¹
		Mouse	iv	LD	33
		Rabbit	iv	LD	1.5 ¹
		Rabbit	iv	LD	1.8 ²
823	Erysodine HCl	Mouse	sc	LD	100
824	Erysopine HCl	Mouse	sc	LD	14.8
825	Erysothiopine disodium	Mouse	sc	LD	76
826	Erythramine HBr	Mouse	sc	LD	104
827	Erythrite	Dog	iv	LD	5000
828	α-Erythroidine	Mouse	sc	LD	48
		Mouse	ip	LD ₅₀	24.0±0.93
		Rat	iv	LD ₅₀	39.3
		Rabbit	iv	LD ₅₀	8.6
		Dog	iv	LD ₅₀	8.8
829	Erythrophleine	Frog	sc	LD	20
830	Erythroisine	Rat	ip	LD ₅₀ [*]	300
		Rabbit	iv	LD ₅₀ [*]	200
831	Ethanol	Frog	sc	LD	7100-7900
		Mouse	or	LD ₅₀	9488 ³
		Mouse	sc	LD ₅₀	8285 ³
		Mouse	iv	LD ₅₀	1973 ³

(continued on next page)

/1/Ergotoxine base. /2/ Ergotoxine phosphate. /3/95% ethanol.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935. Davis, J. Pharm. Exp. Ther. <u>54:398</u> , 1955. Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935. Barger, Heffter's Hdb. <u>E. 6:84</u> . Röthlin, Arch. exp. Path. Pharm. <u>181:154</u> , 1936. Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935.	816
			Röthlin, Helvet. physiol. acta <u>3:519</u> , 1945.	817
			Röthlin, Helvet. physiol. acta <u>3:519</u> , 1945.	818
			Röthlin, Helvet. physiol. acta <u>3:519</u> , 1945.	819
			Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935. Röthlin, Arch. int. pharmacod. <u>27:459</u> , 1923. Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935. Röthlin, Helvet. physiol. acta <u>2:48</u> , 1944. Barger, Heffter's Hdb. <u>E. 6:104</u> . Ibid Röthlin, Helvet. physiol. acta <u>3:519</u> , 1945. Röthlin, Helvet. physiol. acta <u>2:48</u> , 1944. Röthlin, C. rend. Soc. biol. <u>119:1302</u> , 1935.	820
			Röthlin, Bull. acad. Suisse sci. med. <u>2:No. 4, 1946-47</u> . Ibid Ibid Ibid	821
			Kreitmaier, Arch. exp. Path. Pharm. <u>176:171</u> , 1934. Ibid Röthlin, Arch. exp. Path. Pharm. <u>181:154</u> , 1936. Ibid	822
			Unna, J. Pharm. Exp. Ther. <u>80:39.53</u> , 1944.	823
			Unna, J. Pharm. Exp. Ther. <u>80:39.53</u> , 1944.	824
			Unna, J. Pharm. Exp. Ther. <u>80:39.53</u> , 1944.	825
			Unna, J. Pharm. Exp. Ther. <u>80:39.53</u> , 1944.	826
		24 hr	Flury, Abderhalden's Hdb. <u>4.7b:1422</u> .	827
		24 hr	Unna, J. Pharm. Exp. Ther. <u>80:39.53</u> , 1944. Berger, J. Pharm. Exp. Ther. <u>91:362</u> , 1940. Chase, J. Pharm. Exp. Ther. <u>82:266</u> , 1944. Ibid Ibid	828
			Lendle, Heffter's Hdb. <u>E. 1:78</u> .	829
			Emerson, Int. J. Leprosy <u>2:257</u> , 1934. Ibid	830
			Flury, Abderhalden's Hdb. <u>4.7b:1296</u> . Latven, J. Pharm. Exp. Ther. <u>65:89</u> , 1933. Ibid Ibid	831

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
831 Ethanol (concluded)	Rat	or	LD ₅₀	13,660
	Fat	ip	LD ₅₀	5000
	Guinea pig	ip	LD ₅₀	5560
	Rabbit	or	LD	7890
	Rabbit	or	LD ₅₀	6300
	Rabbit	or	LD ₅₀	9500
	Rabbit	iv	MLD	9400 ¹
	Cat	iv	LD	3945 ²
	Dog	or	LD	5500-6500
	Dog	sc	LD	6000-8000
	Dog	iv	LD	5365
832 Ethanolamine HCl	Rat	iv	MLD	860-900
833 Ethanol-2,2'-thiodi-diacetate	Mouse	or	LD ₅₀	7.2 cc
	Rat	or	LD ₅₀	8.2 cc
834 Ether	Frog	sc	LD*	1680
835 Ethoxyacetyl-K-strophanthin	Cat	iv	MLD	0.65
836 4-Ethoxy-2-aminobenzothiazole	Mouse	iv	LD ₅₀ *	80
837 Ethoxybenzazepine	Mouse	ip	LD ₅₀	135±3
	Mouse	iv	LD ₅₀	32±1.5
838 p-Ethoxy-β-dimethylaminoethoxy-benzene ethiodide	Mouse	sc	LD ₅₀	92±4.8
839 2-Ethoxyethanol acetate	Rabbit	ct	LD ₅₀	10,570
840 2(2-Ethoxyethoxy)ethanol	Rat	or	LD ₅₀	8690
	Rat	sc	LD ₅₀	7920
	Rat	iv	LD ₅₀	4080
	Guinea pig	or	LD ₅₀	3670
	Rabbit	or	LD ₅₀	3620
	Rabbit	ct	LD ₅₀	8190
841 2(2-Ethoxyethoxy)ethanol acetate	Rat	or	LD ₅₀	11,000
	Guinea pig	or	LD ₅₀	3930
	Rabbit	or	LD ₅₀	4400
	Rabbit	ct	LD ₅₀	15,190
842 Ethoxyethyltrimethylammonium iodide	Mouse	sc	LD ₅₀	32.3±6.4
843 1-Ethoxy-2-hydroxy-4-propenylbenzene	Rat	or	LD ₅₀ *	2400
844 3-Ethoxy-1,2-propandiol	Mouse	or	LD ₅₀	935±0.13 cc
845 3-Ethoxypropionaldehyde	Rat	or	LD ₅₀	90
	Rabbit	ct	LD ₅₀	1000
846 3-Ethoxypropionic acid	Rat	or	LD ₅₀	4800
	Rabbit	ct	LD ₅₀	750
847 3-Ethoxy-5,6,7,8-tetrahydrocarbazole	Rat	or	LD ₅₀	>5000
848 Ethyl acetate	Rat	or	LD ₅₀	5620
	Guinea pig	sc	LD	3000-5000
	Cat	sc	LD*	3000

/1/ Diluted with normal saline and injected at a rate of 0.5 cc per minute. /2/ Pure ethanol.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
11,170-16,710	N saline	15-48 hr	Smyth, J. Ind. Hyg. Tox. 23:253, 1941.	831
4820-6140			Barlow, J. Pharm. Exp. Ther. 56:117, 1936.	
5060-7850			Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	
			Langgaard, Zschr. exp. Path. 13:20, 1913.	
			Smyth, unpublished data, Mellon Inst.	
			Barlow, J. Pharm. Exp. Ther. 56:117, 1936.	
			Lehman, J. Pharm. Exp. Ther. 61:103, 1937.	
			Macht, J. Pharm. Exp. Ther. 16:1, 1920.	
		12-14 hr	DuJardin-Beaumetz, C. rend. Acad. sc. 81:192, 1875.	
		36-48 hr	Ibid	
			Hanzlik, J. Pharm. Exp. Ther. 67:101, 1939.	
			Ling, J. Pharm. Exp. Ther. 65:1, 1932.	832
			Draize, J. Pharm. Exp. Ther. 83:26, 1948.	833
			Ibid	
			Flury, Abderhalden's Hdb. 4.7b:1294.	834
			Neumann, Arch. exp. Path. Pharm. 185:328, 1937.	835
			Domino, J. Pharm. Exp. Ther. 105:486, 1952	836
			Randall, J. Pharm. Exp. Ther. 103:10, 1951.	837
			Ibid	
			Winter, J. Pharm. Exp. Ther. 100:489, 1950.	838
9,180-12,190			Smyth, unpublished data, Mellon Inst.	839
7,250-10,410			Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	840
7210-8300			Ibid	
3740-4440			Smyth, unpublished data, Mellon Inst.	
3140-4260			Ibid	
3210-4090			Ibid	
7210-9310			Ibid	
10,400-11,590			Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	841
3490-4310			Ibid	
4040-4790			Smyth, unpublished data, Mellon Inst.	
12,710-18,580			Ibid	
			Edwards, J. Pharm. Exp. Ther. 103:196, 1951.	842
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:82, 1951.	843
		10 da	Hine, Arch. Ind. Hyg. Occ. Med. 2:579, 1950.	844
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	845
			Ibid	
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	846
			Ibid	
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	847
4950-6390			Smyth, unpublished data, Mellon Inst.	848
			Flury, Arch. Gewerbepath. 5:1, 1934.	
			Ibid	

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
11,170-16,710	N saline	15-48 hr 12-14 hr 36-48 hr	Smyth, J. Ind. Hyg. Tox. <u>23:253</u> , 1941.	831
4820-6140			Barlow, J. Pharm. Exp. Ther. <u>56:117</u> , 1936.	
5060-7850			Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941.	
			Langgaard, Zschr. exp. Path. <u>13:20</u> , 1913.	
			Smyth, unpublished data, Mellon Inst.	
			Barlow, J. Pharm. Exp. Ther. <u>56:117</u> , 1936.	
			Lehman, J. Pharm. Exp. Ther. <u>61:103</u> , 1937.	
			Macht, J. Pharm. Exp. Ther. <u>16:1</u> , 1920.	
			DuJardin-Beaumetz, C. rend. Acad. sc. <u>81:192</u> , 1875.	
			Ibid	
			Hanzlik, J. Pharm. Exp. Ther. <u>67:101</u> , 1939.	
			Ling, J. Pharm. Exp. Ther. <u>45:1</u> , 1932.	832
			Draize, J. Pharm. Exp. Ther. <u>83:26</u> , 1948.	833
			Ibid	
			Flury, Abderhalden's Hdb. <u>4. 7b:1294</u> .	834
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937.	835
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952	836
			Randall, J. Pharm. Exp. Ther. <u>103:10</u> , 1951.	837
			Ibid	
			Winter, J. Pharm. Exp. Ther. <u>100:489</u> , 1950.	838
9,180-12,190			Smyth, unpublished data, Mellon Inst.	839
7,250-410			Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941.	840
7210			Ibid	
3740-440			Smyth, unpublished data, Mellon Inst.	
3140-4260			Ibid	
3210-4690			Ibid	
7210-9310			Ibid	
10,400-11,590			Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941.	841
3490-4310			Ibid	
4040-4790			Smyth, unpublished data, Mellon Inst.	
12,710-18,580			Ibid	
			Edwards, J. Pharm. Exp. Ther. <u>103:196</u> , 1951.	842
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:82</u> , 1951.	843
		10 da	Hine, Arch. Ind. Hyg. Occ. Med. <u>2:579</u> , 1950.	844
			Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948.	845
			Ibid	
			Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948.	846
			Ibid	
			Eagle, J. Pharm. Exp. Ther. <u>99:450</u> , 1950.	847
4950-6190			Smyth, unpublished data, Mellon Inst.	848
			Flury, Arch. Gewerbepath. <u>3:1</u> , 1934.	
			Ibid	

	Compound	Animal	Route	Dose	Dosage- mg/kg
					Value
849	Ethyl acetacetate	Rat	or	LD ₅₀	3980
		Rabbit	ct	LD ₅₀	>10,000
850	Ethyl acrylate	Rat	or	LD ₅₀	1020
		Rabbit	ct	LD ₅₀	1950
851	Ethylamine	Rat	or	LD ₅₀	400
		Rabbit	ct	LD ₅₀	0.39 cc
852	4-Ethyl-2-aminobenzothiazole	Mouse	iv	LD ₅₀	77±2
853	Ethylaminoethanol	Rat	or	LD ₅₀	1480
		Rabbit	ct	LD ₅₀	0.36 cc
854	2-Ethyl-2-(1-amiyl-4-hydroxy- methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	549.44±70.7
855	2-Ethyl-2-(n-amiyl-4-hydroxy- methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	549.4±50.5
856	Ethylaniline	Rat	or	LD ₅₀	1070
857	Ethylbenzazepine	Mouse	ip	LD ₅₀	121±7
		Mouse	iv	LD ₅₀	24±2.9
858	Ethylbenzene	Guinea pig	ip	LD	571.5
859	2-Ethylbenzimidazole	Mouse	iv	LD ₅₀ ^a	100
860	Ethyl benzoate	Rat	or	LD ₅₀	6400
861	2-Ethylbenzotriazole	Mouse	iv	LD ₅₀ ^a	125
862	2-Ethyl-butanol-1	Rat	or	LD ₅₀	1850
		Rabbit	ct	LD ₅₀	1.26 cc
863	Ethylbutylether	Rat	or	LD ₅₀	1170
864	2-Ethyl-2-butyl-4-hydroxymethyl- 1,3-dioxolane	Mouse	ip	LD ₅₀	580.9±73.32
865	Ethylbutylketone	Rat	or	LD ₅₀	2760
		Rabbit	ct	LD ₅₀	>20,000
866	Ethylbutyraldehyde	Rat	or	LD ₅₀	3980
867	Ethyl carbitol	Mouse	ip	LD ₅₀	4749
868	Ethyl cellosolve	Mouse	ip	LD ₅₀	1710
869	Ethyl Cetab	Mouse	or	LD ₅₀	600
		Mouse	iv	LD ₅₀	50
870	Ethyl chaulmoograte	Rat	sc	LD	2,500-2,600 ¹
871	Ethyl-bis-(β-chloroethyl)amine (continued on next page)	Mouse	ct	LD ₅₀	13
		Mouse	sc	LD ₅₀	1.2
		Rat	ct	LD ₅₀	17

/1/ 35 cc-40 cc per kilo.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	849
950-1100 1790-2110			Pozzani, J. Ind. Hyg. Tox. <u>31:311</u> , 1949. Ibid	850
290-560 0.28-0.55 cc			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	851
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	852
1350-1620			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	853
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	854
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	855
770-1500			Smyth, unpublished data, Mellon Inst.	856
			Randall, J. Pharm. Exp. Ther. <u>103:10</u> , 1951. Ibid	857
			Chassevant, C. rend. Soc. biol. <u>55:1255</u> , 1896.	858
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	859
5660-7420			Smyth, unpublished data, Mellon Inst.	860
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	861
1520-2240 0.85-1.87 cc			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	862
1340-2600			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	863
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	864
2560-2980			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	865
3340-4740			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	866
			Karel, Fed. Proc. <u>6:342</u> , 1947.	867
			Karel, Fed. Proc. <u>6:342</u> , 1947.	868
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>18:43</u> , 1954. Ibid	869
			Emerson, Proc. Soc. Exp. Biol. Med. <u>32:289</u> , 1936.	870
			Anslow, J. Pharm. Exp. Ther. <u>91:224</u> , 1947. Ibid Ibid	871

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
871	Ethyl-bis-(β -chloroethyl)amine (concluded)	Rat	sc	LD ₅₀	1
		Rat	iv	LD ₅₀	0.5
		Rabbit	ct	LD ₅₀ *	15
		Rabbit	iv	LD ₅₀ *	2
872	Ethyl- β -chloroethylamine	Mouse	iv	LD ₅₀ *	100
873	Ethyl- β -chloroethyl- β -(<i>o</i> -benzyl)- phenoxyethylamine	Mouse	iv	LD ₅₀	33.81±1.28
874	Ethyl- β -chloroethylethylenimonium- picryl sulfonate	Mouse	sc	LD ₅₀	2
		Rat	iv	LD ₅₀ *	0.5
		Rabbit	iv	LD ₅₀ *	3
875	Ethyl- β -chloroethyl- β -hydroxy- ethylpicryl sulfonate	Mouse	sc	LD ₅₀	8
		Mouse	iv	LD ₅₀	8
		Rabbit	iv	LD ₅₀	5-10
876	2-Ethylcrotonylurea	Rat	or	LD ₅₀	2500
		Rat	ip	LD ₅₀	900
		Guinea pig	ip	LD ₅₀	1100
		Rabbit	ip	LD ₅₀	14,000
		Dog	or	LD ₅₀	3500
		Dog	ip	LD ₅₀	900
877	Ethylcyanocyclohexyl acetate	Mouse	or	LD ₅₀	5 cc
		Rat	or	LD ₅₀	6.4 cc
878	Ethyl-di(dimethylamidophosphate	Mouse	ip	LD ₅₀	>1500
879	Ethylidioxaspirane	Mouse	ip	LD ₅₀	120±146.2
880	2-Ethylidiphenylphosphate	Rabbit	or	MLD	>24,000
		Rabbit	iv	MLD	218-272
881	Ethylene chlorohydrin	Rat	or	LD ₅₀	95
		Guinea pig	or	LD ₅₀	110
		Guinea pig	ct	LD ₅₀	85.6
		Guinea pig	ct	LD ₅₀	364
882	Ethylenediamine	Mouse	sc	LD*	750
		Rat	or	LD ₅₀	1160
		Rabbit	ct	LD ₅₀	730
		Rabbit	sc	LD	1000-2000
		Rabbit	iv	LD*	400
883	Ethylene dichloride	Rabbit		LD	3903
		Dog	r	LD	5750
		Dog	iv	LD	225
884	Ethylene glycol	Mouse	or	LD ₅₀	8348
		Mouse	sc	LD ₅₀	5208
		Mouse	ip	LD ₅₀	5620
		Mouse	iv	LD ₅₀	3339
		Rat	or	LD ₅₀	6122
		Rat	or	LD ₅₀	8540
		Rat	im	MLD	4441

(continued on next page)

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Anslo, J. Pharm. Exp. Ther. <u>91:224</u> , 1947. Ibid Ibid Ibid	871
			Anslo, J. Pharm. Exp. Ther. <u>91:221</u> , 1947.	872
			Henderson, Arch. int. pharmacod. <u>83:115</u> , 1950.	873
			Anslo, J. Pharm. Exp. Ther. <u>91:224</u> , 1947. Ibid Ibid	874
			Anslo, J. Pharm. Exp. Ther. <u>91:224</u> , 1947. Ibid Ibid	875
			Randall, Fed. Procc. <u>12:357</u> , 1953. Ibid Ibid Ibid Ibid	876
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid	877
			DuBois, Arch. Ind. Hyg. Occ. Med. <u>6: 9</u> , 1952.	878
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	879
			Treon, Arch. Ind. Hyg. Occ. Med. <u>8:170</u> , 1953. Ibid	880
67-117 77-164 71.5-101.8		24 hr 24 hr 2 hr	Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Ibid Smyth, J. Ind. Hyg. Tox. <u>27:93</u> , 1945. Ibid	881
980-1370 640-820			Barbour, J. Lab. Clin. Med. <u>5:477</u> , 1920. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Ibid Flury, Abderhalden's Hdb. <u>4.7b:1295</u> . Barbour, J. Lab. Clin. Med. <u>5:477</u> , 1920.	882
	Oil Oil Oil	24 hr 24 hr 30 min	Barsoum, Q. J. Pharm. Pharmacol. <u>7:205</u> , 1934. Ibid Ibid	883
7310-9990		1-5 dm	Latven, J. Pharm. Exp. Ther. <u>65:89</u> , 1935. Ibid Karel, Fed. Proc. <u>6:342</u> , 1947. Latven, J. Pharm. Exp. Ther. <u>65:89</u> , 1935. Calvery, J. Ind. Hyg. Tox. <u>21:173</u> , 1939. Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Hanzlik, J. Pharm. Exp. Ther. <u>41:387</u> , 1931.	884

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
884	Ethylene glycol (concluded)	Rat Rat Rat Rabbit Rabbit Rabbit Rabbit Rabbit Cat	ip iv iv or im im ip iv sc	LD LD ₅₀ LD ₅₀ LD LD LD LD LD LD	3896 ¹ 2783 2800 9000 6600 6567 1008 4400-5500 2000
885	Ethylene glycol dinitrate	Rabbit Cat	sc sc	LD ₁₀₀ LD ₁₀₀	300 100
886	Ethylene glycol methyl ether acetate	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	3930 1250
887	Ethylene glycol monoacetate	Mouse	ip	LD ₅₀	1450
888	Ethylene glycol monobutylether	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	1480 1200
889	Ethylene glycol monoethylether	Mouse Mouse Rat Rat Guinea pig Guinea pig	or or or or or or	LD LD LD ₅₀ LD LD ₅₀ LD	4.31 cc ² 5.2 cc ³ 3000 3.46 cc 1400 2.79 cc
890	Ethylene glycol nitrate	Rabbit Cat	sc sc	LD ₁₀₀ LD ₁₀₀	400 100
891	Ethyleneimine	Rat Guinea pig	or or	LD ₅₀ LD ₅₀ ^a	15 ⁴ 15 ⁴
892	Ethylene oxide	Cat Dog	sc iv	LD LD	100 444 ⁵
893	N-Ethylepinephrine	Mouse	sc	LD	6
894	Ethyl-5-fluorohexanoate	Mouse Rat Rabbit	sc im iv	LD ₅₀ LD ₅₀ LD ₅₀	4 2.3 0.2-0.5
895	Ethyl-2-furylcarbamate	Rat	or	LD ₅₀	3150
896	Ethyl glyceryl ether	Mouse	or	LD ₅₀	9350±134
897	2-Ethylhexanol	Mouse Rat Rat	ip or ip	LD ₅₀ LD ₅₀ LD ₅₀	780 3200 650
898	Ethyl-β-hydroxyethyl-ethyl- enimoniumpicryl sulfonate	Mouse Mouse Rabbit	sc iv iv	LD ₅₀ LD ₅₀ LD ₅₀	5.5 5 5-6
899	Ethyl mandelate	Mouse Rat	or or	LD ₅₀ LD ₅₀	3 cc 4.7 cc

¹/1/80% solution in H₂O. ²/2/Concentrated. ³/3/1:1 dilution in H₂O. ⁴/4/0.1% solution in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O		Page, J. Pharm. Exp. Ther. 30:313, 1927. Hanzlik, J. Pharm. Exp. Ther. 41:387, 1931. Hunt, Indust. Engin. Chem. 24:836, 1932. Lehmann & Flury, "Industrial Solvents," 1943. Hanzlik, J. Pharm. Exp. Ther. 41:387, 1931. Ajazzi-Mancini, Boll. soc. ital. biol. sper. 14:68, 1939. Page, J. Pharm. Exp. Ther. 30:313, 1926. Hanzlik, J. Pharm. Exp. Ther. 41:387, 1931. Hofbauer, Dissert., Würzburg 1933.	884
			Gross, Arch. exp. Path. Pharm. 200:271, 1942. Ibid	885
3290-4690 1080-1450			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	886
			Karel, Fed. Proc. 6:342, 1947.	887
1150-1310 960-1500			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	888
4.64-4.01 cc 5.73-4.73 cc 2510-3570 3.62-3.28 cc 1220-1600 3.02-2.57 cc	H ₂ O		Laug, J. Ind. Hyg. Tox. 21:173, 1939. Ibid Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Laug, J. Ind. Hyg. Tox. 21:173, 1939.	889
			Gross, Arch. exp. Path. Pharm. 200:271, 1942. Ibid	890
11-21	H ₂ O H ₂ O		Carpenter, J. Ind. Hyg. Tox. 30:2, 1948. Ibid	891
	H ₂ O	10-12 hr	Hofbauer, Dissert., Würzburg 1933. Stehle, Arch. exp. Path. Pharm. 104:82, 1924.	892
			Konsett, Klin. Wochr. 19:1303, 1940.	893
			Chenoweth, J. Pharm. Exp. Ther. 97:383, 1949. Ibid Ibid	894
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	895
			Loeb, Fed. Proc. 8:316, 1949.	896
			Hodge, Proc. Soc. Exp. Biol. Med. 53:20, 1943. Ibid Ibid	897
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid Ibid	898
			Div. Pharm. F. & D. Adm. Q. Rpt., Feb. 1946. Ibid	899

/5/ 20% solution.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
900 Ethylmercuric phosphate	Rat	or	LD ₅₀ *	30
901 Ethyl mercury thioglycolate	Rat	ip	MLD	30
	Rabbit	iv	MI D	20
902 Ethyl methacrylate	Rat	or	LD ₅₀	12,700
	Rabbit	or	LD	5440
903 4-Ethylmorpholine	Rat	or	LD ₅₀	1780
904 3-Ethylpent-4-en-1-yn-3-ol	Mouse	or	LD ₅₀	630
	Mouse	sc	LD ₅₀	690
905 Ethylphenylbenzazepine	Mouse	ip	LD ₅₀	155±6
906 1-Ethyl-1-phenylthiourea	Rat	ip	LD ₅₀	297±63
907 N-Ethylpiperidine	Rabbit	sc	LD	100
908 N-Ethyl-3-piperidylidiphenylacetate HCl	Mouse	or	LD ₅₀	1040±68
	Mouse	iv	LD ₅₀	26±0.12
909 2-Ethylpropyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	395.92±72.72
910 Ethyl salicylate	Guinea pig	or	MLD	1400
	Guinea pig	sc	LD	1500
911 Ethyltheobromine	Mouse	iv	LD ₅₀	61.0±2.41
	Rat	or	LD ₅₀	176±10.5
	Rat	iv	LD ₅₀	73.6±3.67
912 Ethyl thiocarbamate	Rat	ip	LD ₁₀₀ *	425
913 Ethyl thiocyanate	Mouse	sc	MLD	50
	Rat	or	LD ₅₀	40
	Rat	sc	MLD	40
	Cat	or	MLD	10
914 Ethyltrichlorosilane	Rat	or	LD ₅₀	1330
915 Ethyltriethoxysilane	Rat	or	LD ₅₀	13,720
916 Ethyltrimethylammonium iodide	Mouse	ip	LD ₅₀	43
917 Ethyl vanillin	Rat	sc	LD ₅₀	2000
	Rabbit	or	MLD	3009 ²
918 β-Eucaine	Frog	sc	MLD	1300
	Rat	iv	MLD	15-25
	Guinea pig	sc	MLD	310
	Guinea pig	ip	MLD	180
	Guinea pig	iv	MLD	30
	Rabbit	sc	MLD	400-500
	Cat	iv	MLD	10.0-12.5
919 Eucodal	Frog	sc	LD	500
	Rabbit	sc	LD	80-150
	Rabbit	iv	LD	40-45

/1/ To 5½ hours. /2/ 4-5% solution in milk.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	900
		24 hr Sudden	Cohen, J. Pharm. Exp. Ther. 35:343, 1929. Ibid	901
		1 1/2-96 hr 9 1/2 hr	Deichmann, J. Ind. Hyg. Tox. 23:343, 1941 Ibid	902
1490-2120			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	903
504-782 579-821			DuBois, J. Pharm. Exp. Ther. 107:459, 1953. Ibid	904
			Randall, J. Pharm. Exp. Ther. 103:10, 1951	905
			Saunders, Proc. Soc. Exp. Biol. Med. 76:84, 1951.	906
			Wolffenstein, Ber. deut. chem. Ges. 34:2408, 1901.	907
			Chen, J. Pharm. Exp. Ther. 104:269, 1952. Ibid	908
			Berger, Arch. int. pharmacod. 85:474, 1951.	909
			Houghton, Am. J. Physiol. 13:331, 1905. Ibid	910
		1 min	Scott, J. Pharm. Exp. Ther. 82:89, 1944. Ibid Ibid	911
		48 hr	Dille, J. Am. Pharm. Assoc. 29:195, 1940.	912
		1/2-2 hr 10 min 1-3 hr 7 hr	Von Oettingen, J. Ind. Hyg. Tox. 18:310, 1936. Ibid Ibid Ibid	913
1050-1700			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	914
11,960-15,750			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	915
			Alles, Univ. Cal. Publ. Pharmacol. 1:187, 1939.	916
	Milk	3-24 hr	Deichmann, J. Am. Pharm. Assoc. 29:425, 1940. Ibid	917
			Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid Ibid Ibid Ibid	918
			Flury, Abderhalden's Hdb. 4.7b:1347. Ibid Ibid	919

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
920	Eucupine	Mouse	sc	LD	300
		Rabbit	iv	LD	13
		Cat	sc	LD	25-50
921	Eugenol	Rat	or	LD ₅₀	1930
		Rat	sc	LD*	5000
		Rat	ip	LD	800-1000
922	Eumedrine	Frog	sc	LD	50
		Pigeon	sc	LD	40
923	Evipal	Frog	sc	LD	800
		Mouse	or	LD	500
		Mouse	sc	LD	250
		Mouse	ip	LD ₅₀	280.0±20.4
		Mouse	ip	LD ₅₀	270±17
		Mouse	iv	LD*	190
		Rat	sc	LD	404
		Rat	ip	MLD	170
		Rat	ip	MLD	280
		Guinea pig	ip	LD	100
		Rabbit	or	MLD	1200
		Rabbit	rt	MLD	175
		Rabbit	ip	MLD	200-250
		Rabbit	iv	LD ₅₀	80
		Cat	or	LD	400
		Cat	iv	LD	100
		Dog	iv	LD	100
924	Fanyline	Mouse	iv	LD ₅₀	44.9±2.9
		Mouse	or	LD ₁₀₀	70
		Rat	or	LD ₅₀	9.1±0.7
		Rat	or	LD ₁₀₀	16.1
		Guinea pig	or	LD ₁₀₀	1.3
		Rabbit	or	LD ₁₀₀	1.7
		Cat	or	LD ₁₀₀	0.5
		Dog	or	LD ₁₀₀	0.25
		Pigeon	or	LD ₅₀	7.2±0.6
		Pigeon	cr	LD ₁₀₀	12.5
925	Fencholic acid	Rabbit	ct	LD ₅₀	>9 cc
926	Ferbam	Mouse	ip	LD ₅₀	3000±230
		Rat	ip	LD ₅₀	2700±96
		Rat	ip	LD ₅₀	>17,000
		Guinea pig	ip	LD ₅₀	450-2000
		Rabbit	ip	LD ₅₀	2000-3000
927	Ferric chloride, FeCl ₃ ·6H ₂ O	Frog	sc	LD	5420
		Rat	or	LD	900
		Rabbit	iv	LD	7.2
928	Ferric sulfate, Fe ₂ (SO ₄) ₃ ·6H ₂ O	Frog	sc	LD	13,318
		Rabbit	sc	LD	>1066.8

/1/ 20% gum acacia solution.

Dosage m _g /kg Range	Vehicle	Time of Death	Reference	
		1-1.6 hr	Bylsma, Zschr. ges. exp. Med. 11:257, 1920. Hoffmann, Zbl. Chir. 45:92, 1918. Bylsma, Zschr. ges. exp. Med. 11:257, 1920.	920
		1-48 hr	Sober, Proc. Soc. Exp. Biol. Med. 73:148, 1950. Binet, Rev. méd. Suisse rom. 16:449, 1896. Ibid	921
			Flury, Abderhalden's Hdb. 4.7b:1312. Ibid	922
		24 hr	S. Schlossman, Heffter's Hdb. E.2:152. Ibid Ibid Berger, J. Pharm. Exp. Ther. 93:362, 1948. Way, J. Pharm. Exp. Ther. 87:265, 1946. Kennedy, J. Pharm. Exp. Ther. 50:347, 1934. Schlossman, Heffter's Hdb. E.2:152. Ibid Maloney, J. Pharm. Exp. Ther. 54:77, 1935. Schlossman, Heffter's Hdb. E.2:152. Werner, J. Pharm. Exp. Ther. 60:189, 1937. Ibid Maloney, J. Pharm. Exp. Ther. 54:77, 1935. Werner, J. Pharm. Exp. Ther. 60:189, 1937. Schlossman, Heffter's Hdb. E.2:152. Ibid Ibid	923
	G acacia G acacia G acacia G acacia G acacia G acacia		Karel, J. Pharm. Exp. Ther. 93:287, 1948. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	924
			Div. Pharm. F. & D. Adm. Q. Rpt., March 1947.	925
			Hodge, J. Am. Pharm. Assoc. 41:662, 1952. Ibid Ibid Ibid	926
		6 hr Instant	Starkenstein, Heffter's Hdb. 3.2:1278. Ibid Ibid	927
		Sev la	Starkenstein, Heffter's Hdb. 3.2:1278. Ibid	928

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
929 Ferrous acetate, FeAc. 4H ₂ O	Rabbit	sc	LD	492
930 Ferrous chloride, FeCl ₂ . 4H ₂ O	Frog	or	LD	1986
	Rat	or	LD	984-1986
	Rat	rt	LD	498-984
	Rabbit	or	LD	890
	Rabbit	sc	LD	188.6
	Rabbit	rt	LD	984
931 Ferrous lactate, FeLac. 3H ₂ O	Rabbit	sc	LD	577.9
	Rabbit	iv	LD	286.8
932 Ferrous nitrate, Fe(NO ₃) ₂ . 6H ₂ O	Rabbit	sc	LD	428
933 Ferrous sulfate, FeSO ₄ . 7H ₂ O	Frog	or	MLD	2778.8
	Frog	sc	MLD	996
	Frog	ip	MLD	612.5
	Rat	or	LD	1389-2778
	Rat	rt	LD	697-1389
	Rabbit	or	LD	2778.8
	Rabbit	sc	LD	277.8
	Rabbit	iv	LD	99
934 Flaxedil	Mouse	sc	LD ₅₀	17.4±1.1
	Mouse	iv	LD ₅₀	4.32
935 Fluorescein	Rat	ip	LD ₅₀ *	600
	Rabbit	or	LD	2000-3000
	Rabbit	iv	LD ₅₀ *	300
936 "Fluoroacetate"	Toad ¹	ip	LD ₅₀	>500
	Mouse ²	or	LD ₅₀	17
	Mouse ³	or	LD ₅₀	0.5
	Mouse ⁴	or	LD ₅₀	8
	Mouse ⁵	o:	LD ₅₀	4
	Mouse	sc	LD ₅₀	17
	Mouse ⁶	sc	LD ₅₀	19.3
	Mouse ⁷	sc	LD ₅₀	16
	Mouse ⁷	sc	LD ₅₀	5
	Mouse ⁷	ip	LD ₅₀	10
	Rat ⁷	or	LD ₅₀	2.5
	Rat ⁷	sc	LD ₅₀	2-3
	Rat ⁷	im	LD ₅₀	5
	Rat ⁸	or	LD ₅₀	0.5
	Rat ⁹	or	LD ₅₀	0.1
	Rat ¹⁰	or	LD ₅₀	0.1
	Rat ¹¹	ip	LD ₅₀	0.1
	Rat ¹²	ip	LD ₅₀	0.15
	Rat ¹³	or	LD ₅₀	3
	Rat ¹⁴	or	LD ₅₀	0.22
	Rat ¹⁵	ip	LD ₅₀	0.8
	Rat ¹⁶	or	LD ₅₀	1.5

(continued on next page)

1/1/South African clawed. 2/2/Curworth. 3/3/Meadow. 4/4/Mouse. 5/5/Daer. 6/6/Maple grove. Morrison. 11/11/Norway, Florida. 14/14/Norway, Maryland. 15/15/Wood, Arizona. 16/16/Wood.

Compound	Animal	Route	Dose	Dose mg/kg
				Value
936 "Fluoroacetate" (concluded)	Guinea pig	sc	LD ₁₀₀	0.25
	Guinea pig	ip	LD ₅₀	0.35
	Rabbit ¹	sc	LD ₁₀₀	0.5-1.0
	Rabbit ²	iv	LD ₅₀	0.25
	Rabbit ³	iv	LD ₅₀	0.5
	Hamster	ip	LD ₅₀	3
	Gopher ⁴	ip	LD ₁₀₀	0.05
	Gopher ⁵	ip	LD ₅₀	0.2
	Gr. squir. ⁶	or	LD ₅₀	0.3
	Gr. squir. ⁷	ip	LD ₅₀	0.4
	Gr. squir. ⁸	ip	LD ₅₀	0.9
	Cat	iv	LD ₅₀	0.2
	Dog	iv	LD ₅₀	0.06
	Dog	iv	LD ₁₀₀	0.10
	Coyote	ip	LD ₅₀	0.10
	Monkey ⁹	iv	LD ₅₀	4
	Monkey ¹⁰	iv	LD ₅₀	15
	Goat	im	LD ₅₀	0.6
	Horse	or	LD ₅₀	1
	Pig ¹¹	or	LD ₅₀	<1
	Pig ¹²	ip	LD ₅₀	0.4
	Sheep	or	LD ₅₀	2
	Chicken ¹³	or	LD ₅₀	7.5
	Chicken ¹⁴	or	LD ₅₀	5
	Chicken ¹⁵	or	LD ₅₀	5.5
	Pigeon ¹⁶	or	LD ₅₀	2.5
	Pigeon ¹⁷	or	LD ₅₀	9
	Eagle ¹⁸	or	LD ₅₀	5
	Quail ¹⁹	cr	LD ₅₀	28
	Sparrow ²⁰	or	LD ₅₀	2.5
	Vulture ²¹	or	LD ₅₀	15
937 Fluoroacetate sodium	Rat ²¹	or	LD ₅₀	0.22±0.01
	Rat ²²	or	LD ₅₀	6.9
	Dog	or	LD ₅₀	0.066
938 3-Fluoro-5-bromotyrosine	Mouse	sc	LD	78
939 γ-Fluorobutyrate methyl ester	Rabbit	iv	LD ₅₀	0.10
	Cat	iv	LD ₅₀	0.2
	Monkey ⁹	iv	LD ₅₀	1-5
940 γ-Fluorocrotonate sodium	Frog ²³	sc	LD ₅₀	25
	Mouse ²²	iv	LD ₅₀	1
	Mouse ²²	iv	LD ₁₀₀	2
	Rat ²²	ip	LD ₅₀	1
	Rabbit ²²	iv	LD ₅₀	0.15
941 1,2,4-Fluorodinitrobenzene	Mouse	sc	LD ^a	108
942 5-Fluorobenzoate ethyl ester (continued on next page)	Mouse	sc	LD ₅₀	4

^{1/1} Dutch, ^{2/2} New Zealand white, ^{3/3} New Zealand pigmented, ^{4/4} Pocket, ^{5/5} Florida,
^{9/9} Rhesus, ^{10/10} Spider, ^{11/11} Adult, ^{12/12} Young, ^{13/13} White leghorn, ^{14/14} Rhode Island red,
^{21/21} Norway, ^{22/22} Albino, ^{23/23} Rana pipiens.

[illegible]

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
942	5-Fluorohexanoate ethyl ester(concluded)	Rat Rabbit	im iv	LD ₅₀ LD ₅₀	2.3 0.2-0.5
943	3-Fluoro-4-hydroxyphenylacetic acid	Mouse	sc	LD	3500
944	1-(3-Fluoro-4-hydroxy)-phenyl- 1-methyl-2-methylaminoethane	Mouse	sc	LD	550
945	Fluorotyramine	Mouse	sc	LD	1000
946	Formaldehyde	Mouse Rat Rat Guinea pig Rabbit	sc or sc or iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD	300 800 420 260 700
947	Formalin ¹	Dog Dog	sc sc	LD LD	0.88 cc 0.55 cc
948	Formamit ⁴	Frog	sc	LD	300
949	Formic acid	Rabbit Dog Dog	iv or iv ³	MLD MLD MLD	239 4000 ² 3000 ²
950	Formic acid ethyl ester	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	4290 >20 cc
951	Fradicia (crystalline)	Mouse	ip	LD ₅₀ ⁶	4
952	Frugoside	Cat	iv	LD ₅₀	0.1611
953	Fundin	Rabbit	iv	MLD	80
954	Fuchsine (basic)	Mouse Rabbit	rt or	LD LD	25 ⁴ 150 ⁴
955	Fungicide 341-B ⁵	Mouse ⁶ Rat Rat ⁶ Rat ⁶	or or or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	5300 8400 6800 5000
956	Fungicide 341-C	Rat	or	LD ₅₀ ⁶	3720
957	Furacin	Mouse Rat Rat	or or sc	LD ₅₀ LD ₅₀ LD ₅₀	580 590 3000
958	Furfural	Frog Frog Mouse Rabbit Dog Dog	or sc sc or or iv	LD LD LD LD LD LD	3479.8 2642 13.7 927 2318 166
959	Furfuryl alcohol	Rat Rat Guinea pig Rabbit	or iv iv sc	LD ₅₀ LD ₅₀ MLD LD	275 ⁷ 650 ⁸ 210 ⁹ 600 ¹⁰

(continued on next page)

¹/1/Formalin - 37% solution of formaldehyde in H₂O. ²/2/Sodium salt. ³/3/Slow injection. ⁴/4/Daily. ⁵/5/Inulin to make 100%. ⁶/6/Animals not fasted. ⁷/7/2% solution in H₂O. ⁸/8/10% solution in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Chenoweth, Chem. Biol. Coord. Ctr. Rev. 2. Ibid	942
			Euler, Arch. exp. Path. Pharm. 206:75, 1949.	943
			Euler, Arch. exp. Path. Pharm. 206:75, 1949.	944
			Euler, Arch. exp. Path. Pharm. 206:75, 1949.	945
750-870		24 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	946
220-300		24 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	
		8 hr	Sammartino, Arch. farm. sper. 56:301, 1933.	
		24 hr Sevda	Fleig, Arch. int. pharmacod. 17:147, 1907. Ibid	947
			Gibbs, DuBois' Arch. f. Physiol. Suppl. p259, 1892.	948
			Sammartino, Arch. farm. sper. 56:301, 1933. Fleig, Arch. int. pharmacod. 17:147, 1907. Ibid	949
3070-5980			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	950
			Hickey, Science 113:261, 1951.	951
0.1107-0.2844	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	952
			Weese, Med. u. Chem., Berl. 3:413, 1936.	953
		10 da 10 da	Deschiens, C. rend. Soc. biol. 138:201, 1944. Ibid	954
4800-5700 8100-9400 6100-7600 4600-5600			Carpenter, Arch. Ind. Hyg. Occ. Med. 4:494, 1951. Ibid Ibid Ibid	955
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	956
			Downing, J. Am. Med. Assoc. 133:299, 1947. Ibid Ibid	957
		3 min 10 min 20 min 15 hr 10 min	McGuigan, J. Pharm. Exp. Ther. 21:65, 1923. Ibid Ibid Ibid Ibid Ibid	958
	H ₂ O H ₂ O H ₂ O		Gajewski, Fed. Proc. 8:294, 1949. Ibid Jeffroy, Arch. méd. exp., Par. 8:195, 1896. Erdmann, Arch. exp. Path. Pharm. 48:233, 1902.	959

/5/Contains 30% heptadecylimidazoline + 3.3% 2-heptadecyl-1-hydroxyethylimidazoline +
/9/Injected at rate of 15 mg per minute. /10/ 25% solution in H₂O.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
959	Furfuryl alcohol (concluded)	Rabbit	iv	MLD	240 ¹
		Rabbit	iv	LD	800-1400 ²
		Dog	iv	MLD	290 ¹
960	2-a-Furyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	374±15.3
961	Gallic acid	Frog	sc	LD	3000 ³
		Frog	sc	LD	2030 ⁴
		Rat	sc	LD	3500 ⁴
		Rat	sc	LD	5000 ³
		Guinea pig	sc	LD	3500 ⁴
		Guinea pig	sc	LD	5000 ³
		Rabbit	iv	LD	3320
962	Gallium ammonium sulfate	Mouse	sc	LD	100 ⁵
		Rat	sc	LD	200
		Guinea pig	sc	LD	1143
963	Gallium lactate	Rat	sc	LD ₅₀	585.6
		Rat	iv	LD ₅₀	222.6
		Rabbit	sc	LD ₅₀	474.3
		Rabbit	iv	LD ₅₀	208.1
964	Gallium nitrate	Rat	sc	LD ₁₀₀	72
965	Gastrisin lithium	Mouse	or	LD ₅₀	10,000
		Mouse	sc	LD ₅₀	5000
		Mouse	iv	LD ₅₀	2500
966	Gastrisin sodium	Mouse	or	LD ₅₀	10,000
		Mouse	ip	LD ₅₀	3200
		Rat	iv	LD ₅₀	2300
967	Gelsemine	Rabbit	sc	MLD	0.51
968	Germanin	Mouse	iv	LD ₅₀	400 ⁶
969	Germanium oxide	Rat	sc	LD	>180
		Rat	ip	LD ₅₀	750
		Rat	ip	LD ₁₀₀	1200
		Guinea pig	ip	MLD ⁶	400
		Guinea pig	ip	MLD ⁶	300
970	Germerine	Frog ⁷	sc	LD ₅₀	9
		Frog ⁸	sc	LD ₅₀	20
		Rat	or	LD ₅₀	30
		Rat	sc	LD ₅₀	3.7
		Rabbit	sc	LD ₁₀₀	2
		Rabbit	iv	LD	0.3
		Cat	sc	LD	0.5
971	Germidine	Mouse	ip	LD ₅₀	10
972	Germine	Mouse	iv	LD ₅₀	139

/1/ Injected at rate of 15 mg per minute. /2/ 20% solution in normal saline. /3/ As sodium
/7/ Water frog. /8/ Grass frog.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	N saline		Jeffroy, Arch. méd. exp., Par. 8:195, 1896. Fine, Arch. Ind. Hyg. Occ. Med. 1:625, 1950. Jeffroy, Arch. méd. exp., Par. 8:195, 1896.	959
			Berger, Arch. int. pharmacod. 85:474, 1951.	960
			Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Ibid Ibid Ibid Filomeni, Arch. farm. sper. 63:183, 1937.	961
		5 da	Schwarz, Arch. Hyg. 100:143, 1928. Ibid Ibid	962
			Dudley, N. M. R. Proj. NMO11013 Rpt. 3, 1949. Ibid Ibid Ibid	963
		7-14 da	Meek, Indust. Med. 12:7, 1943.	964
			Schnitzer, J. Pharm. Exp. Ther. 88:47, 1946. Ibid Ibid	965
			Schnitzer, J. Pharm. Exp. Ther. 88:47, 1946. Ibid Ibid	966
			Risi, Zschr. Biol. 99:446, 1939.	967
			Branden, Ann. Soc. belge méd. trop. 20:91, 1940.	968
		24 hr	Hammet, J. Pharm. Exp. Ther. 19:337, 1922. Rosenfeld, Arch. Ind. Hyg. Occ. Med. 8:436, 1953. Ibid Muller, J. Pharm. Exp. Ther. 42:277, 1931. Ibid	969
			Haas, Arch. exp. Path. Pharm. 189:397, 1938. Ibid Krayser, Physiol. Rev. 26:383, 1946. Ibid Haas, Arch. exp. Path. Pharm. 189:397, 1938. Ibid Ibid	970
9.1-11.0			Swiss, Proc. Soc. Exp. Biol. Med. 76:847, 1951.	971
		13ml±	Krayser, J. Pharm. Exp. Ther. 82:167, 1946.	972

salt. /4/ Free acid. /5/ 100 mg per mouse, as gallium metal. /6/ Slow injection.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
973	Gitalin	Frog	sc	LD	4.5-6.0
		Mouse	sc	LD	29
		Rabbit	iv	LD	5.8
		Cat	or	LD	0.37
		Cat	sc	LD	0.55
		Cat	iv	LD	0.53
974	Gitorin	Cat	iv	LD ₅₀	0.4372
975	Gitoxin	Frog	sc	LD	8.5
		Cat	or	LD	0.88
		Cat	sc	LD	0.8
		Cat	iv	LD	0.59
976	Gitoside	Cat	iv	LD ₅₀	0.587±0.037
977	Glucose	Rabbit	or	LD	20,000
		Rabbit	iv	LD	12000-25000
		Rabbit	iv	LD	35,000
		Dog	or	LD	8000-12,000
978	Glucosyl-β-phenylethylamine	Mouse	ip	LD ₅₀	518 ¹
		Mouse	ip	LD ₅₀	434 ²
979	Glucuronic acid lactone	Mouse	or	LD ^o	10,700
		Mouse	sc	LD ^o	4,700
		Mouse	ip	LD ^o	3,200
		Mouse	iv	LD ^o	940
		Rat	or	LD ₅₀	20,050±450
		Rat	sc	LD ₅₀	6400±740
		Rat	ip	LD ₅₀	3100±440
		Rabbit	sc	LD ^o	7100
		Rabbit	iv	LD ^o	2100
980	Glycerol	Mouse	or	LD	31,500 ³
		Mouse	or	LD ₅₀	23 cc
		Mouse	or	LD ₅₀	32.224
		Mouse	or	LD ₁₀₀	44,250-56,700
		Mouse	sc	LD ₅₀	12,600 ³
		Mouse	iv	LD ₅₀	7560 ³
		Rat	or	LD ₅₀	27,500
		Rat	or	LD ₅₀	27.2 cc
		Rat	or	LD ₅₀	27,500
		Rat	sc	LD ₆₀	15,120
		Rat	sc	LD ₅₀	20,160
		Rat	im	LD ₆₀	7560
		Rat	ip	LD ₄₀	6300-7560
		Guinea pig	or	LD ₅₀	7750
		Guinea pig	sc	LD ₁₀₀	15,750
		Rabbit	or	LD	26,460
		Rabbit	or	LD	28,900
		Dog	sc	LD	9000-11,260

/1/Optical rotation, -15°. /2/Optical rotation, +10°. /3/Undiluted.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Lendle, Heffter's Hdb. <u>E. 1:78.</u> Ibid Ibid Ibid Ibid	973
0.3144-0.5073	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365</u> 1954.	974
			Lendle, Heffter's Hdb. <u>E. 1:78.</u> Ibid Ibid Ibid	975
			Peterfalvi, Arch. int. pharmacod. <u>87:425</u> , 1951.	976
		Instant	Flury, Abderhalden's Hdb. <u>4.7b: 1422.</u> Ibid Ibid Ibid	977
			Kaesling, Proc. Pharm. Soc. Fall Meet. p45, 1951. Ibid	978
			Deichmann, Indust. Med. <u>20:417</u> , 1951. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	979
23,950-31,610 6030-9950		3 hr-3 dm 1 hr-3 dm 2-3 hr *	Latven, J. Pharm. Exp. Ther. <u>65:89</u> , 1939. Hise, Arch. Ind. Hyg. Occ. Med. <u>7:282</u> , 1953. Woodard, Fed. Proc. <u>4:142</u> , 1945. Lannoy, J. pharm. chim., Par. <u>2:3</u> , 1942. Latven, J. Pharm. Exp. Ther. <u>65:89</u> , 1939. Ibid Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Hise, Arch. Ind. Hyg. Occ. Med. <u>7:282</u> , 1953. Woodard, Fed. Proc. <u>4:142</u> , 1945. Braun, J. Am. Pharm. Assoc. <u>25:746</u> , 1936. Deichmann, Indust. Med. <u>10:5</u> , 1941. Braun, J. Am. Pharm. Assoc. <u>25:746</u> , 1936. Deichmann, Indust. Med. <u>10:5</u> , 1941. Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Lannoy, J. pharm. chim., Par. <u>2:3</u> , 1942. Deichmann, Indust. Med. <u>10:5</u> , 1941. Ibid Ploes, Arch. ges. Physiol. <u>16:153</u> , 1878.	980

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
981	Glycidyl oleate	Rat	or	LD ₅₀	3520
982	Glycolaldehyde	Rabbit	sc	LD	4000
983	Glyodin (base)	Rat	or	LD ₅₀	3720
984	Glyoxal	Rat	or	LD ₅₀	2020
		Guinea pig	or	LD ₅₀	760
		Dog	sc	LD	28
985	Glyoxaltetrabutylacetal	Rat	or	LD ₅₀	8900
		Rabbit	ct	LD ₅₀	2240
986	Gossypol acetate	Cat	iv	LD	75
987	Gramicidin	Mouse	ip	LD ₁₈	75
		Mouse	iv	LD ₁₀₀	5
		Mouse	iv	LD ₅₀	1.5
988	Guaiacol	Rat	sc	LD	900
		Guinea pig	sc	LD	600
		Rabbit	iv	LD	3.7
989	Guanidine	Mouse	sc	LD*	300
		Rat	sc	MLD	250 ²
		Rat	sc	LD ₁₀₀	750
		Rat	ip	LD ³	175
		Guinea pig	sc	LD ₁₀₀	100-200 ³
		Guinea pig	sc	LD	500
		Guinea pig	ip	LD	1500
		Rabbit	or	LD	300
		Rabbit	sc	LD	500
		Cat	sc	LD	200-250 ³
		Cat	ip	LD	100
		Dog	sc	LD	200-250 ³
990	Halazone	Rat	or	MLD	3500
		Rat	iv	MLD	800
991	Harmaline	Frog	sc	MLD	250
		Rat	sc	MLD	120
		Guinea pig	sc	MLD	100
		Rabbit	sc	MLD	100
		Cat	sc	MLD	100
		Dog	sc	LD	33.3
992	Harmame	Mouse	sc	LD	30
993	Harmine	Frog	sc	MLD	300
		Frog	sc	MLD	300
		Mouse	sc	LD	300
		Rat	sc	MLD	200
		Guinea pig	sc	MLD	120
	(continued on next page)	Guinea pig	sc	LD	100

/1/ Or alcohol. /2/ Free base. /3/ Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
3350-3690			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	981
			Mayer, Zschr. physiol. Chem. 38:135, 1903.	982
			Conley, J. Am. Med. Assoc. 157:237, 1955.	983
1630-2520 500-1040			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid Pohl, Arch. exp. Path. Pharm. 37:413, 1896.	984
6700-11,980 930-5380			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	985
	Oil	2-4 da	Alsberg, J. Pharm. Exp. Ther. 13:504, 1919.	986
		24 hr	Robinson, J. Pharm. Exp. Ther. 74:75, 1942.	987
	Prop gly	24 hr	Ibid Anderson, Science 103:419, 1946.	
			Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Stefano, Arch. farm. sper. 67:190, 1939.	988
99-200		24 hr	Flury, Abderhalden's Hdb. 4.7b:1352. Alles, J. Pharm. Exp. Ther. 28:251, 1926. Minot, J. Pharm. Exp. Ther. 43:295, 1931. Klinger, Arch. exp. Path. Pharm. 90:129, 1921. Flury, Abderhalden's Hdb. 4.7b:1352.	989
		3 hr	Heyde, Zschr. ges. exp. Med. 1:59, 1913.	
		20 min	Ibid	
		3-5 hr	Flury, Abderhalden's Hdb. 4.7b:1352.	
		3-5 hr	Ibid	
			Ibid	
			Klinger, Arch. exp. Path. Pharm. 90:129, 1921.	
			Flury, Abderhalden's Hdb. 4.7b:1352.	
		1-18 hr	Stohman, Pub. Health Rpt. 59:541, 1944. Ibid	990
		31-36 hr	Gunn, Tr. R. Soc., Edinburgh 47:245, 1909.	991
		7 1/4 hr	Ibid	
		7 2/3 hr	Ibid	
		1 1/4 hr	Ibid	
		9 hr	Ibid	
			Flury, Arch. exp. Path. Pharm. 64:105, 1911.	
			Kadonuma, Tohoku J. E.M. 17:1, 10, 20, 25, 28, 1931.	992
			Hara, Jap. J. Med. Sc. IV Pharm. 1:78, 1933.	993
			Gunn, Q. J. Pharm. Pharmacol. 4:33, 1931.	
			Hara, Jap. J. Med. Sc. IV Pharm. 1:78, 1933.	
			Gunn, Q. J. Pharm. Pharmacol. 4:33, 1931.	
			Ibid	
			Lewin, Arch. exp. Path. Pharm. 129:133, 1928.	

	Compound	Animal	Route	Dose	Insa ng/kg
					Value
993	Harmine (concluded)	Rabbit	sc	LD	200
		Rabbit	sc	MLD	100
		Rabbit	sc	MLD	200
		Rabbit	sc	MLD	230
		Cat	sc	MLD	200
		Monkey	sc	MLD	30
		Pigeon	sc	MLD	150
994	Harmol	Frog	sc	LD	180
		Mouse	ip	LD	140
		Rat	sc	LD	400
		Guinea pig	sc	LD	200
		Rabbit	s.	LD	400
995	Helleborein	Frog	sc	LD	4
		Toad	sc	LD	185-244
		Cat	iv	LD	1.9
996	Heparin	Mouse	iv	LD ₅₀	1500-2000
997	Heparinoid	Mouse	iv	LD ₅₀	1898
998	Heptachlor	Rat	or	LD ₅₀ *	90
999	2-Heptadecyl-1-hydroxyethyl- imidazoline	Rat	or	LD ₅₀	3800
1000	Heptadecylimidazoline	Rat	or	LD ₅₀	1300
1001	Heptaldehyde sodium bisulfite	Mouse	ip	LD ₅₀	1460
		Mouse	iv	LD ₅₀	500
		Rat	ip	LD ₅₀	1300
		Rabbit	iv	LD ₅₀	450
1002	2-Heptanol	Rat	or	LD ₅₀	2580
		Rabbit	ct	LD ₅₀	1.78 cc
1003	3-Heptanol	Rat	or	LD ₅₀	1870
		Rabbit	ct	LD ₅₀	4360
1004	Heptazone	Mouse	sc	LD ₅₀	110
1005	Heptazone HCl	Mouse	sc	LD ₅₀	240
		Mouse	iv	LD ₅₀	47.5
		Rat	sc	LD ₅₀	132
1006	(3-Heptoxyphenyl)trimethylammonium bromide	Mouse	iv	LD ₅₀	5.0±0.5
1007	2-Heptylamine	Mouse	ip	LD ₅₀	95
1008	3-Heptylamine	Mouse	ip	LD ₅₀	90
1009	2-Heptylmethylamine	Mouse	ip	LD ₅₀	110
1010	3-Heptylmethylamine	Mouse	ip	LD ₅₀	70
1011	n-Heptyltrimethylammonium iodide	Mouse	ip	LD ₅₀	28
1012	Heroin	Rabbit	sc	LD	150

Dose mg/kg	Vehicle	Time of Death	Reference	
Range				
		3-6 hr	Lewin, Arch. exp. Path. Pharm. 129:133, 1928. Hara, Jap. J. Med. Sc. IV Pharm. 1:78, 1933. Lewin, Arch. exp. Path. Pharm. 129:133, 1928. Gunn, Q. J. Pharm. Pharmacol. 4:33, 1931. Hara, Jap. J. Med. Sc. IV Pharm. 1:78, 1933. Ibid Gunn, Q. J. Pharm. Pharmacol. 4:33, 1931.	993
			Gunn, Q. J. Pharm. Pharmacol. 4:33, 1931. Ibid Ibid Ibid	994
			Honda, Arch. int. pharmacod. 9:431, 1901. Ibid Lond'e, Heffter's Hdb. E. 1: 78.	995
			Seifter, Am. J. Med. Sc. 216:234, 1948.	996
			Seifter, Am. J. Med. Sc. 216:234, 1948.	997
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	998
3400-4200			Carpenter, Arch. Ind. Hyg. Occ. Med. 4:494, 1951.	999
1000-1700			Carpenter, Arch. Ind. Hyg. Occ. Med. 4:494, 1951.	1000
			Gruber, J. Pharm. Exp. Ther. 98:274, 1950. Ibid Ibid Ibid	1001
2290-2910 1.10-2.88 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1002
1340-2600 2360-8060			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1003
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	1004
			Winter, J. Pharm. Exp. Ther. 98:305, 1950. Ibid Ibid	1005
			Randall, J. Pharm. Exp. Ther. 99:16, 1950.	1006
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1007
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1008
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1009
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1010
			Allee, Univ. Cal. Publ. Pharmacol. 1:187, 1919.	1011
			Flury, Abderhalden's Hdb. 4.7b:1154.	1012

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1013	HETP	Mouse	or	LD ₅₀	55.5
		Mouse	sc	LD ₅₀	0.9
		Mouse	ip	LD ₅₀	0.1
		Rat	or	LD ₅₀	1.9
		Rat	or	LD ₅₀	7
		Rat	sc	LD ₅₀	0.7
		Rat	ct	LD ₅₀	25
		Guinea pig	or	LD ₅₀	16
		Guinea pig	sc	LD ₅₀	2.2
		Guinea pig	ct	LD ₅₀	120
		Rabbit	or	LD ₅₀	20.5
		Rabbit	iv	LD ₅₀	0.69
		Rabbit	ct	LD ₅₀	103.2 ¹
		Dog	im	LD ₅₀	1.5
		Dog	iv	LD ₅₀	1.3
1014	Hexamine	Mouse	ip	LD ₅₀	61
1015	Hexazan	Mouse	or	LD ₅₀	660
		Mouse	ip	LD ₅₀	248
		Mouse	iv	LD ₅₀	82
		Rat	or	LD ₅₀	1380
		Rat	ip	LD ₅₀	465
		Rat	iv	LD ₅₀	150
1016	Hexachloroethane	Dog	iv	MLD	325
1017	Hexachloropropylene	Rat	ip	LD ₅₀	0.4 cc
1018	Hexahydrophthalic acid diethyl ester	Mouse	or	LD ₅₀	2.4 cc
		Rat	or	LD ₅₀	3.9 cc
1019	Hexanal	Rat	or	LD ₅₀	4520-5640
1020	2, 5-Hexanediol	Rat	or	LD ₅₀	5000
		Rabbit	ct	LD ₅₀	16, 300
1021	1, 2, 6-Hexanetriol	Rat	or	LD ₅₀	17, 000
		Rabbit	ct	LD ₅₀	>20 cc
1022	Hexanoic acid	Rat	or	LD ₅₀	3000
		Rat	or	LD ₅₀	6440
		Rat	or	LD ₅₀	6840
		Guinea pig	ct	LD ₅₀	4450
		Rabbit	ct	LD ₅₀	0.61 cc
1023	1-Hexanol	Rat	or	LD ₅₀	4870
1024	2-Hexanone	Rat	or	LD ₅₀	2590
		Rabbit	ct	LD ₅₀	5.99 cc
1025	Hexoerhital	Mouse	or	LD ₅₀	408 ²
1026	Hexose diphosphoric acid	Rat	ip	LD	4400
1027	Hexylamine	Rat	or	LD ₅₀	670
		Rabbit	ct	LD ₅₀	0.42 cc
1028	2-Hexylamine	Mouse	ip	LD ₅₀	60
1029	Hexylbenzocapene	Mouse	ip	LD ₅₀	180al. 3
		Mouse	iv	LD ₅₀	17al. 7

/1/ 2.5% solution in H₂O /2/ 94-107% limit of error.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O		Hagan, Fed. Proc. 6:335, 1947. Forssling, Acta pharm. tox. 4:143, 1948. Dayrit, J. Pharm. Exp. Ther. 92:173, 1948. Forssling, Acta pharm. tox. 4:143, 1948. Hagan, Fed. Proc. 6:335, 1947. Forssling, Acta pharm. tox. 4:143, 1948. Ibid Hagan, Fed. Proc. 6:335, 1947. Forssling, Acta pharm. tox. 4:143, 1948. Ibid Hagan, Fed. Proc. 6:335, 1947. Ibid Deichmann, Fed. Proc. 6:322, 1947. Dayrit, J. Pharm. Exp. Ther. 92:173, 1948. Ibid	1013
			Reinhard, Proc. Soc. Exp. Biol. Med. 66:512, 1947.	1014
			Harned, Ann. N. Y. Acad. Sci. 50:141, 1948. Ibid Ibid Ibid Ibid Ibid	1015
	Oil	30 min	Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	1016
			Spiegel, A. E. C. MDDC-1715, 1948.	1017
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	1018
			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1019
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	1020
12,200-21,800			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1021
5770-7190 5580-8450 0.13-1.2 cc			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Smyth, unpublished data, Mellon Inst. Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1022
4520-5640			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1023
2110-5180 4.27-6.42 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1024
			Reinhard, J. Pharm. Exp. Ther. 106:444, 1932.	1025
			Abeloe, Biochem. Zeehr. 163:226, 1925.	1026
620-740 0.3-0.6 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1027
			March, J. Pharm. Exp. Ther. 103:125, 1931.	1028
			Randall, J. Pharm. Exp. Ther. 103:10, 1931. Ibid	1029

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1030	n-Hexylbenzoate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	12,500 21,000
1031	Hexylether	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	30,900 6.9 cc
1032	2-n-Hexyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	439.92±52.64
1033	2-Hexylmethylamine	Mouse	ip	LD ₅₀	120
1034	n-Hexylresorcinol	Mouse Mouse Mouse Rat Rat Guinea pig	sc ip ip or or or	MLD MLD MLD LD ₅₀ MLD LD ₅₀	750-1000 ¹ 50 ² 200 ¹ 550 250 ³ 4754
1035	n-Hexyltrimethylammonium iodide	Mouse	ip	LD ₅₀	24
1036	Hexicon	Rat Rat	or ip	LD ₅₀ LD ₅₀	3200 770
1037	Hexadyl (base)	Mouse Mouse Mouse Rat Guinea pig	or iv ip sc or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ ^o LD ₅₀	182.2±12.8 19.85±0.69 77 150 374.9±34.5
1038	Hexamine	Frog Mouse Mouse Guinea pig Guinea pig Guinea pig Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit Monkey	sc sc ip or sc iv iv ip ic sc iv iv iv iv	LD LD ₁₀₀ LD ₅₀ LD LD LD ₅₀ LD LD MLD LD LD ^o LD LD	2000-2500 2500-2700 12.950 200-400 3.5-10.0 0.18±0.007 0.5-0.75 12-54 0.5 12-15 0.1 0.6 50
1039	Humatropine methylbromide	Mouse Mouse Mouse Rat Rat Rat Guinea pig Guinea pig	or sc ip or sc ip or ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	1400 650 60 1200 800 82 1000 120
1040	Hardenine sulfate	Rat Guinea pig Guinea pig Rabbit Dog Dog	sc sc iv iv or iv	LD ^o LD LD LD LD LD	1000 2000 300 250-300 2000 250-300

/1/5% solution in oil. /2/1% emulsion /3/25% emulsion. /4/25% solution in oil.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
11,800-13,500			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1030
27,800-34,400 3.6-10.0 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1031
			Berger, Arch. int. pharmacod. 35:474, 1951.	
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1033
	Olive oil		Broom, Brit. J. Exp. Path. 12:327, 1931.	1034
	H ₂ O		Ibid	
	Olive oil		Lamson, J. Pharm. Exp. Ther. 53:198, 1935.	
	H ₂ O		Broom, Brit. J. Exp. Path. 12:327, 1931.	
	Oil		Anderson, Proc. Soc. Exp. Biol. Med. 28:609, 1931.	
			Alles, Univ. Cal. Publ. Pharmacol. 1:187, 1939.	1035
1098-1306 670-886			Smith, J. Pharm. Exp. Ther. 107:403, 1953. Ibid	1036
94-108			Lee, Proc. Soc. Exp. Biol. Med. 80:458, 1952. Ibid Castillo, J. Pharm. Exp. Ther. 96:388, 1949 Halpern, C. rend. Soc. Biol. 144:887, 1940. Lee, Proc. Soc. Exp. Biol. Med. 80:458, 1952.	1037
		2 da 7-8 hr	Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Ibid Alles, J. Pharm. Exp. Ther. 76:386, 1943. Parrot, 17th Int. Physiol. Congr. p378, 1947. Schmidt, Zschr. Immunitätsforsch. 60:222, 1929. Lands, J. Pharm. Exp. Ther. 95:45, 1949. Flury, Abderhalden's Hdb. 4.7b:1354. Schmidt, Zschr. Immunitätsforsch. 60:222, 1929. Lands, Bull. Johns Hopkins Hosp. 83:330, 1948. Schmidt, Zschr. Immunitätsforsch. 60:222, 1929. Flury, Abderhalden's Hdb. 4.7b:1354. Oehme, Arch. exp. Path. Pharm. 72:76, 1913. Flury, Abderhalden's Hdb. 4.7b:1354.	1038
1180-1680 520-800 51-75 1050-1400 620-1040 75-91 920-1090 85-170			Cohen, J. Pharm. Exp. Ther. 105:166, 1952. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	1039
		10 min 10 min	Carnus, C. rend. Acad. sc. 142:110, 1906. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1354. Ibid Ibid	1040

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1041 Hyamine 1622	Rat	or	LD ₅₀	420±25
	Rat	ip	LD ₅₀	13.1±2.5
	Rat	iv	LD ₅₀	19.1±0.8
1042 Hyamine 2389	Rat	or	LD ₅₀	325
	Rat	or	LD ₅₀	359±28
	Rat	ip	LD ₅₀	7.9
	Rat	ip	LD ₅₀	10.23±1.0
	Rat	iv	LD ₅₀	1.9
	Rat	iv	LD ₅₀	3.06±0.13
1043 Hydrastine	Frog	sc	LD	264-400
	Rabbit	sc	LD	>100-175
	Dog	sc	LD	>100-175
1044 Hydrastine HCl	Rat	sc	LD	1000
	Rabbit	sc	LD	300-500
	Dog	sc	LD	250-300
1045 Hydrazine	Mouse	ip	LD ₅₀	163
	Rat	ip	LD ₅₀	102
	Rabbit	ct	LD ₅₀	91
	Rabbit	iv	LD ₅₀	34
1046 Hydrazine hydrate	Mouse	ip	LD ₅₀	163
	Rabbit	iv	LD ₅₀	20-25
1047 Hydrazine sulfate	Guinea pig	sc	LD	200-300
	Rabbit	sc	LD	100
	Rabbit	sc	LD	200-300
	Dog	sc	LD	100
1048 1-Hydrazinophthalazine	Mouse	ip	LD ₅₀	83±6
1049 Hydroacrylic acid- β -phenylethyl ester	Mouse	or	LD ₅₀	4.6 cc
	Rat	or	LD ₅₀	7.8 cc
1050 Hydrocyanic acid	Frog	sc	LD	60
	Mouse	sc	LD	5
	Mouse	sc	LD	3-10
	Mouse	ip	LD	3-10
	Guinea pig	sc	LD	0.1
	Rabbit	or	LD	4
	Rabbit	sc	LD	1.1-3.0
	Rabbit	iv	LD	0.1-0.33
	Cat	sc	LD	1.1
	Bird	sc	LD	0.1
1051 Hydrogen peroxide	Rat	ct	LD ₅₀ ^a	700
	Rat	iv	LD ₅₀ ^a	21
1052 Hydroquinone	Frog	sc	LD	100-200
	Mouse	or	LD ₅₀ ^a	400 ¹
	Mouse	sc	LD	100-170
(continued on next page)				320 ¹

/1/ 2% aqueous solution.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Finnegan, J. Pharm. Exp. Ther. 109:422, 1953. Ibid Ibid	1041
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:43, 1954. Finnegan, J. Pharm. Exp. Ther. 109:422, 1953. Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954. Finnegan, J. Pharm. Exp. Ther. 109:422, 1953. Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954. Finnegan, J. Pharm. Exp. Ther. 109:422, 1953.	1042
			Flury, Abderhalden's Hdb. 4.7b:1356. Ibid Ibid	1043
			Flury, Abderhalden's Hdb. 4.7b:1355. Ibid Ibid	1044
			Krop, Arch. Ind. Hyg. Occ. Med. 9:199, 1954. Ibid Ibid Ibid	1045
			Thienes, North Am. Aviation Rpt. AL731, 1948. Kunkel, Chem. Corps Med. Lab. Rpt. 83, 1951.	1046
		2 hr 2 hr	Flury, Abderhalden's Hdb. 4.7b:1355. Trendelenburg, Heffter's Hdb. 1.1:514. Flury, Abderhalden's Hdb. 4.7b:1356. Trendelenburg, Heffter's Hdb. 1.1:514.	1047
			Walker, J. Pharm. Exp. Ther. 101:369, 1951.	1048
			Div. Pharm. F. & D. Adm. Q. Rpt., June 1946. Div. Pharm. F. & D. Adm. Q. Rpt., Sept. 1946.	1049
		10 min	Flury, Abderhalden's Hdb. 4.7b:1340. Hunt, Arch. int. pharmacod. 12:447, 1904. Flury, Abderhalden's Hdb. 4.7b:1340. Ibid Ibid Ibid Ibid Ibid Ibid	1050
			Krachon, Health Haz. Mil. Chem. No. 4, Feb. 1950 Ibid	1051
	H ₂ O H ₂ O	6-7 hr Few hr Few hr	Fühner, Arch. exp. Path. Pharm. 164:637, 1932. Woodard, Fed. Proc. 8:348, 1949. Fühner, Arch. exp. Path. Pharm. 164:637, 1932. Woodard, Fed. Proc. 8:348, 1949.	1052

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1052	Hydroquinone (concluded)	Rat	sc	LD	300-350
		Rat	iv	LD ₅₀ ^a	115 ¹
		Guinea pig	or	LD ₅₀ ^a	550 ¹
		Guinea pig	sc	LD	300
		Guinea pig	ip	LD	200
		Rabbit	or	LD	550
		Cat	or	LD	60-100
		Cat	or	LD ₅₀ ^a	70
		Cat	sc	LD	50
		Dog	or	LD ₅₀	200 ¹
		Dog	iv	LD	80-100
		Pigeon	or	LD ₅₀ ^a	300 ¹
1053	Hydroxyacetic acid	Cat	or	LD	500
		Cat	iv	LD	1000
1054	4-Hydroxy-2-aminobenzothiazole	Mouse	iv	LD ₅₀ ^a	160
1055	6-Hydroxy-2-aminobenzothiazole	Mouse	iv	LD ₅₀ ^a	300
1056	m-Hydroxybenzoic acid	Guinea pig	ip	LD	2800
1057	p-Hydroxybenzoic acid	Guinea pig	ip	LD	3000
1058	(2-Hydroxybenzyl)trimethylammonium bromide	Mouse	iv	LD ₅₀	5.8±0.5
1059	3-Hydroxycinchonic acid	Mouse	sc	LD	1600
1060	4-Hydroxycoumarin	Mouse	ip	LD ₅₀	2000
1061	(2-Hydroxy-3,5-dimethylphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	5.8±0.3
1062	m-Hydroxyephedrine	Rabbit	iv	LD	50-60
1063	o-Hydroxyephedrine	Rabbit	iv	LD	50-60
1064	p-Hydroxyephedrine	Rabbit	iv	LD	150
1065	Hydroxyethylapocupreine	Mouse	or	LD ₅₀	2200 ³
		Mouse	or	LD ₅₀	3000 ⁴
		Mouse	ip	LD ₅₀	460 ³
1066	N-Hydroxyethylethylenimine	Rat	or	LD ₅₀	74
		Rabbit	ct	LD ₅₀	280
1067	Hydroxyethylpropylenediamine	Rat	or	LD ₅₀	4920
		Rabbit	ct	LD ₅₀	10,000
1068	Hydroxylamine	Rabbit	or	LD	25
		Dog	o	LD	200-300
		Dog	iv	LD	60
1069	Hydroxylamine HCl	Mouse		LD ₅₀	408
		Mouse		LD ₅₀	419

/1/ 2% aqueous solution. /2/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O	Few hr	Binet, Rev. méd. Suisse rom. 15:561, 1895.	1052
	H ₂ O	Few hr	Woodard, Fed. Proc. 8:348, 1949.	
			Ibid	
	Milk	1-11 da	Binet, Rev. méd. Suisse rom. 15:561, 1895.	
			Chassevant, Arch. int. pharmacod. 14:93, 1905.	
			Brieger, Dubois' Arch. f. Physiol. 3:61, 1879.	
			Oettel, Arch. exp. Path. Pharm. 183:319, 1936.	
			Woodard, Fed. Proc. 8:348, 1949.	
	H ₂ O	Few hr	Oettel, Arch. exp. Path. Pharm. 183:319, 1936.	
	H ₂ O	Few hr	Woodard, Fed. Proc. 8:348, 1949.	
			Gibbs, Dubois' Arch. f. Physiol. p344, 1890.	
			Woodard, Fed. Proc. 8:348, 1949.	
		5-21 da	Riker, J. Am. Pharm. Assoc. 31:306, 1942.	1053
		2-4 da	Ibid	
			Domino, J. Pharm. Exp. Ther. 105:486, 1952	1054
			Domino, J. Pharm. Exp. Ther. 105:486, 1952.	1055
			Chassevant, Arch. int. pharmacod. 14:93, 1905.	1056
			Chassevant, Arch. int. pharmacod. 14:93, 1905.	1057
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	1058
			Blanchard, Bull. Johns Hopkins Hosp. 88:181, 1951	1059
			Brodersen, Acta pharm. tox. 2:109, 1951.	1060
			Randall, J. Pharm. Exp. Ther. 100:83, 1950.	1061
			Bovet & Bovet-Nitti, 2 p103.	1062
			Bovet & Bovet-Nitti, 2 p103.	1063
			Bovet & Bovet-Nitti, 2 p103.	1064
			Bracken, J. Pharm. Exp. Ther. 68:239, 1940.	1065
			Ibid	
			Carlson, J. Am. Pharm. Assoc. 40:471, 1951.	
64-87			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	1066
			Ibid	
3750-6460			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	1067
			Ibid	
			Leber, Dissert., Erlanger 1888.	1068
			Gibbs, Dubois' Arch. f. Physiol. 17:201, 1893.	
			Ibid	
			Reiman, Acta pharm. tox. 4:285, 1950.	1069
			Ibid	

Végétatif." New York: S. Karger, 1948. /3/ Dihydrochloride. /4/ Base.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1070	o-(N-γ-Hydroxymercuri-β-hydroxyethoxypropyl carbamyl)-phenoxyacetic acid	Mouse	im	LD ₅₀	117.9±8.1
		Mouse	iv	LD ₅₀	112.9±10.8
		Rat	im	LD ₅₀	34.8±4.4
		Rat	iv	LD ₅₀	32.2±2.8
		Rabbit	im	LD ₅₀	26.2±4.1
1071	(3-Hydroxy-4-methylphenyl)-trimethylammonium bromide	Mouse	or	LD ₅₀	350±39
		Mouse	sc	LD ₅₀	185±20
		Mouse	iv	LD ₅₀	2.0±0.2
1072	(3-Hydroxyphenyl)benzyl-dimethylammonium bromide	Mouse	iv	LD ₅₀	8.0±0.4
1073	3-Hydroxy-2-phenylcinchoninic acid	Mouse	im	LD ₅₀ *	400
1074	(3-Hydroxyphenyl)diethylmethylammonium bromide	Mouse	or	LD ₅₀	690±117
		Mouse	sc	LD ₅₀	61±15
		Mouse	ip	LD ₅₀	26.0±2.3
		Mouse	iv	LD ₅₀	10.0±0.4
		Rat	iv	LD ₅₀	27±6
		Dog	iv	LD ₅₀	20±5
1075	(3-Hydroxyphenyl)dimethylethylammonium bromide	Mouse	or	LD ₅₀	600±126
		Mouse	sc	LD ₅₀	130±4
		Mouse	ip	LD ₅₀	37.0±2.6
		Mouse	iv	LD ₅₀	9±1
		Rabbit	iv	LD ₅₀	28.5±7.0
		Dog	iv	LD ₅₀	15±1
1076	N,N'-(5-Hydroxy-1,3-phenylene)-di(trimethylammonium)dichloride	Mouse	---	LD ₅₀	9.4±0.9
1077	(3-Hydroxyphenyl)isopropyl-dimethylammonium iodide	Mouse	iv	LD ₅₀	6.2±0.9
1078	p-m-Hydroxyphenylpropanolamine	Rabbit	iv	LD	16
1079	p-o-Hydroxyphenylpropanolamine	Rabbit	iv	LD	40
1080	p-p-Hydroxyphenylpropanolamine	Rabbit	iv	LD	125
1081	(3-Hydroxyphenyl)triethylammonium bromide	Mouse	iv	LD ₅₀	8.7±0.5
1082	(2-Hydroxyphenyl)trimethylammonium bromide	Mouse	sc	LD ₅₀	22±1
1083	(3-Hydroxyphenyl)trimethylammonium bromide	Mouse	or	LD ₅₀	480±96
		Mouse	sc	LD ₅₀	81.0±11.3
		Mouse	iv	LD ₅₀	2.5±0.05
		Dog	iv	LD ₅₀	10
1084	(4-Hydroxyphenyl)trimethylammonium bromide	Mouse	iv	LD ₅₀	2.7±0.2
1085	(3-Hydroxyphenyl)trimethylammonium-methylsulfate-benzylcarbamate	Mouse	iv	LD	0.1

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Robbins, J. Am. Pharm. Assoc. <u>42</u> :249, 1951. Ibid Ibid Ibid Ibid	1070
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950. Ibid Ibid	1071
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1072
			Blanchard, Bull. Johns Hopkins Hosp. <u>88</u> :181, 1951.	1073
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950. Ibid Ibid Ibid Ibid Ibid	1074
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950. Ibid Ibid Ibid Ibid Ibid	1075
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1076
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1077
			Hartung, J. Am. Chem. Soc. <u>53</u> :4149, 1931.	1078
			Hartung, J. Am. Chem. Soc. <u>53</u> :4149, 1931.	1079
			Hartung, J. Am. Chem. Soc. <u>53</u> :4149, 1931.	1080
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1081
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1082
			Randall, J. Pharm. Exp. Ther. <u>99</u> :16, 1950. Ibid Ibid Ibid	1083
			Randall, J. Pharm. Exp. Ther. <u>100</u> :83, 1950.	1084
			Aeschlimann, J. Pharm. Exp. Ther. <u>43</u> :413, 1931.	1085

	Compound	Animal	Route	Dose	Dose mg/kg
					Value
1086	(3-Hydroxyphenyl)trimethylammonium-methylsulfateethylcarbamate	Mouse	iv	LD	0.7
1087	(3-Hydroxyphenyl)trimethylammonium-methylsulfatediethylcarbamate	Mouse	iv	LD	8
1088	(3-Hydroxyphenyl)trimethylammonium-methylsulfatedipropenylcarbamate	Mouse	iv	LD	10
1089	(3-Hydroxyphenyl)trimethylammonium-methylsulfateethylcarbamate	Mouse	iv	LD	1
1090	(3-Hydroxyphenyl)trimethylammonium-methylsulfatemethylcarbamate	Mouse	iv	LD	0.1
1091	(3-Hydroxyphenyl)trimethylammonium-methylsulfatemethylphenylcarbamate	Mouse	iv	LD	3.5
1092	(3-Hydroxyphenyl)trimethylammonium-methylsulfatepentylcarbamate	Mouse	iv	LD	6
1093	(3-Hydroxyphenyl)trimethylammonium-methylsulfatephenylcarbamate	Mouse	iv	LD	2-6
1094	(3-Hydroxyphenyl)trimethylammonium-methylsulfatepropenylcarbamate	Mouse	iv	LD	0.75
1095	m-Hydroxyprocaine	Mouse	ip	LD ₅₀	220
		Rat	ip	LD ₅₀	240
		Rabbit	ip	MLD	72
1096	8-Hydroxyquinoline	Guinea pig	or	LD ₂₀	1200
1097	Hydroxystreptomycin	Mouse	sc	LD ₅₀	865
1098	Ilotycin (base)	Mouse	or	LD ₅₀	3112±211
		Mouse	sc	LD ₅₀	>2500
		Rat	or	LD ₅₀	>1000
		Rat	sc	LD ₅₀	>2000
		Guinea pig	ip	LD ₅₀	413.4±51.7
		Hamster	or	LD ₅₀	1018±193
1099	β-(Imidazoly-[4])-b-methylethylamine	Mouse	ip	LD ₅₀	1000
		Guinea pig	ip	LD ₅₀	200
1100	Impletol ¹	Mouse	sc	LD ₅₀	270
1101	Indalone	Mouse	or	LD ₅₀	11.6 cc
		Rat	or	LD ₅₀	7.4 cc
		Guinea pig	or	LD ₅₀	3.2 cc
		Rabbit	or	LD ₅₀	5.4 cc
		Chicken	or	LD ₅₀	15.0 cc
1102	Indium chloride	Mouse	sc	MLD	60
		Rat	sc	MLD	10.2
		Rabbit	sc	MLD	2.15
		Rabbit	iv	MLD	0.64

¹/1/ Procaine-caffeine. ²/2/ Buffered with citrate.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1086
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1087
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1088
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1089
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1090
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1091
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1092
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1093
			Aeschlimann, J. Pharm. Exp. Ther. <u>43:413</u> , 1931.	1094
			Burgson, Fed. Proc. <u>10:284</u> , 1951.	1095
			Ibid	
			Ibid	
			Anderson, Proc. Soc. Exp. Biol. Med. <u>28:284</u> , 1931.	1096
			Ambrose, Proc. Soc. Exp. Biol. Med. <u>76:466</u> , 1951.	1097
			Anderson, J. Am. Pharm. Assoc. <u>41:55</u> , 1952.	1098
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Alles, J. Pharm. Exp. Ther. <u>76:386</u> , 1943.	1099
			Ibid	
250-290			Sorhring, Arzneimittelforsch. <u>1:28</u> , 1951.	1100
			Draize, J. Pharm. Exp. Ther. <u>91:26</u> , 1948.	1101
			Ibid	
			Ibid	
			Ibid	
	H ₂ O ²	Delayed 4 da 6-7 da 10 da	Von Oettingen, Proc. Soc. Exp. Biol. Med. <u>29:1188</u> , 1932. McCord, J. Ind. Hyg. Tox. <u>24:243</u> , 1942.	1102
			Ibid	
			Ibid	

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1103	Indium sulfate	Frog	sc	MLD	600-800
		Rat	sc	MLD	12.5
		Rat	sc	MLD	150
		Rabbit	or	MLD	1500-2000
		Rabbit	sc	LD	2.6
		Rabbit	iv	MLD	0.67
1104	Indole	Frog	sc	MLD	500
		Dog	iv	LD	60
1105	Insulin	Frog	sc	LD	1000 ³
1106	Intocortin	Mouse	sc	LD ₅₀	0.67±0.05 ⁴
		Mouse	sc	LD ₅₀	0.18±0.10 ⁵
1107	Iodoikon	Mouse	iv	LD ₅₀	270-370
		Rabbit	or	LD	4350
		Rabbit	iv	LD	470
		Dog	iv	LD	270
1108	Iodine	Rabbit	sc	MLD	175-180
		Dog	iv	LD	40
1109	Iodine phosphide	Rabbit	or	LD ⁶	6.8
1110	Iodoacetamide	Mouse	sc	LD ₅₀	42±1
1111	Iodoacetic acid	Rat	or	LD ₅₀	116±11
		Rat	ip	MLD	30-50
1112	Iodofluorotyrosine	Mouse	sc	LD	57
1113	Iodoform	Rabbit	or	LD	440-490
		Rabbit	or	LD	910
		Rabbit	sc	LD	176
		Rabbit	sc	LD	830
		Cat	or	LD	7500
1114	o-Iodophenol	Rat	sc	LD	4000
1115	Icnol	Rat?	ip	LD ₅₀	8000
1116	Iopax	Rat	iv	LD	8000
		Rabbit	iv	LD	9000
1117	Iprat	Mouse	ip	LD	250
		Rat	sc	LD	110
		Rat	ip	LD	110
		Rabbit	or	LD	160
		Rabbit	ip	LD	110
		Rabbit	iv	LD	140
		Cat	or	LD	140
1118	Irgapyrin	Mouse	iv	LD ₅₀	155
		Rat	ip	LD ₅₀	290
1119	Iscam June I	Mouse	sc	LD ₅₀	90

/1/ Calculated as indium metal. /2/ Buffered with citrate. /3/ Units per kilo. /4/ At 25°.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
	10 cc	10 da	Steidle, Arch. exp. Path. Pharm. 173:458, 1933. McCord, J. Ind. Hyg. Tox. 24:293, 1942.	1103
		4-10 da	Steidle, Arch. exp. Path. Pharm. 173:458, 1933.	
		5-12 da	Ibid	
		5 da	McCord, J. Ind. Hyg. Tox. 24:293, 1942.	
		4 da	Ibid	
			Bin-Ichi, Tohoku J. E. M. 25:407, 1935	1104
			Ets, Am. J. Physiol. 136:647, 1942.	
			Barlow, J. Pharm. Exp. Ther. 41:229, 1931.	1105
			Streicher, Proc. Soc. Exp. Biol. Med. 86:536, 1951.	1106
			Ibid	
			Barba-Gon, Q. J. Pharm. Pharmacol. 2:396, 1929.	1107
			Greenbaum, J. Pharm. Exp. Ther. 30:407, 1927.	
			Ibid	
			Graham, J. Am. Med. Assoc. 84:1175, 1925.	
			Myers, Proc. Soc. Exp. Biol. Med. 25:784, 1928.	1108
			Flury, Abderhalden's Hdb. 4. 7b:1359.	
		70 min.	Santesson, Skand. Arch. Physiol. 15:420, 1909.	1109
		48 hr	Beck, Proc. Soc. Exp. Biol. Med. 78:382, 1951.	1110
			Lundquist, J. Dent. Res. 30:203, 1951.	1111
			Hall, Proc. Soc. Exp. Biol. Med. 29:360, 1932.	
			Euler, Arch. exp. Path. Pharm. 206:75, 1949.	1112
	Oil	24 hr	Mulzer, Zschr. exp. Path. 1:446, 1905.	1113
	Oil	1 1/2 hr	Ibid	
	Oil	5 da	Flury, Abderhalden's Hdb. 4. 7b:1359.	
	Oil	4 da	Ibid	
	Oil	24 hr	Ibid	
			Binet, Rev. méd. Suisse rom. 16:449, 1896.	1114
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	1115
			Binz, Biochem. Zschr. 227:200, 1930.	1116
			Benassi, Arch. ital. urol. 7:5, 1931.	
			Kochmann, Heffter's Hdb. E. 2:147.	1117
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Launoy, J. physiol. path. gén. 30:364, 1932.	
			Kochmann, Heffter's Hdb. E. 2:147.	
		48 hr	Hazleton, J. Pharm. Exp. Ther. 109:387, 1951.	1118
		24 hr	Ibid	
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	1119

250 C. / 5/ At 40 C.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1120 Isobutyl alcohol	Mouse	sc	LD	7490
	Rabbit	iv	MLD	1570
	Cat	iv	LD	211
1121 N-Isobutyladrenaline	Mouse	sc	LD	200
1122 Isobutyl alcohol	Rat	sc	LD ₅₀	2460
	Rabbit	ct	LD ₅₀	4.24 cc
1123 Isobutyraldehyde	Rat	or	LD ₅₀	1710
	Rabbit	ct	LD ₅₀	7.13 cc
1124 Isocaine	Mouse	sc	LD	400
	Rat	sc	LD	700
	Rabbit	sc	LD	300
	Cat	sc	LD	200
1125 Isocyclex	Rat	ip	LD ₅₀	250
1126 Isodehydroacetic acid	Mouse	ip	LD ₅₀	>1000
1127 Isodiphenylethanolamine-N-ethyl-diethyleneamine HCl	Mouse	sc	LD ^o	400
1128 Isodiphenylethanolamine HCl	Mouse	sc	LD ^o	100
1129 Iso-1-hexyldioxa-pirane	Mouse	ip	LD ₅₀	871, 64128.8
1130 Iso-2-hexyldioxa-pirane	Mouse	ip	LD ₅₀	2.740.2
1131 DL-Isomethadone	Mouse	ip	LD ₅₀	60
1132 L-Isomethadone	Mouse	sc	LD ₅₀	21
1133 Isomonomethyl-nicotinium iodide	Mouse	ip	LD	170
	Rabbit	iv	LD ^o	100
1134 Isonicotinaldehyde semicarbazone	Mouse	or	LD ₅₀	911
1135 Isonicotinyl hydrazide	Mouse	or	LD ₅₀	205
	Mouse	ip	LD ₅₀	159
	Mouse	iv	LD ₅₀	150
	Rat	or	LD ₅₀	650
	Rat	ip	LD ₅₀	180
	Guinea pig	or	LD ₅₀	280
1136 Isupral	Guinea pig	ip	LD ₅₀	200
	Frog	sc	LD	671
	Rat	or	LD	1000
	Rabbit	or	LD	900
	Cat	or	LD	400
1137 1-Isopropoxy-1,2-propanediol	Dog	or	LD	600
	Mouse	or	LD ₅₀	8.240.14 cc
1138 Isopropyl acetate	Rat	or	LD ₅₀	1000
1139 1-Isopropyladrenaline	Mouse	sc	LD	60
1140 Isopropyl alcohol	Mouse	or	LD	4970

(continued on next page)

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Starrek. Dissert., Würzburg 1938. Lehman, J. Pharm. Exp. Ther. 61:103, 1937. Macht, J. Pharm. Exp. Ther. 16:1, 1921.	1120
			Konzett. Klin. Wschr. 19:1301, 1940.	1121
1600-5740 2.52-7.12 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1122
2680-5210			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954 Ibid	1123
			Schmitz, J. Pharm. Exp. Ther. 24:167, 1925. Ibid Ibid Ibid	1124
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	1125
			Brodersen, Acta pharm. tox. 2:109, 1944.	1126
			Mercier, J. physiol., Par. 42:675, 1950.	1127
			Mercier, J. physiol., Par. 42:675, 1950.	1128
			Berger, Arch. int. pharmacod. 85:474, 1951.	1129
			Berger, Arch. int. pharmacod. 85:474, 1951.	1130
			Winter, J. Pharm. Exp. Ther. 98:305, 1950.	1131
			Winter, J. Pharm. Exp. Ther. 98:305, 1950.	1132
			Larson, J. Pharm. Exp. Ther. 77:343, 1943. Ibid	1133
			Grunberg, Proc. Soc. Exp. Biol. Med. 77:47, 1951.	1134
			Reinhard, Science 116:166, 1952. Ibid Ibid Ibid Ibid Ibid	1135
			Kochmann, Hefter's Hdb. 3:1:418. Burtner, J. Pharm. Exp. Ther. 63:183, 1938. Kochmann, Hefter's Hdb. 3:1:418. Impens, Therap. Monatsh. 17:419, 1905. Ibid	1136
		10 dm	Hine, Arch. Ind. Hyg. Occ. Med. 2:579, 1950.	1137
			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	1138
			Konzett, Arch. Path. 197:27, 41, 1940.	1139
			Boruttau, Dcut. med. Wschr. 47:747, 1921.	1140

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1140 Isopropyl alcohol (concluded)	Mouse Rabbit Rabbit Cat	sc or or ct iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD	5000 4440 5000 16.4 cc 1.62.5
1141 Isopropylamine	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	820 550
1142 Isopropylbenzazepine	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	156±9.5 23±1.0
1143 Isopropyl benzoate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3730 20,000
1144 Isopropyl-bis-(β-chloroethyl)amine	Mouse Mouse Rat Rabbit	or sc iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ *	22 1.1 0.5 2.0
1145 2-Isopropyl-2-butyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	70.02±17.10
1146 Isopropylcinnamate	Guinea pig	or	LD ₅₀	2.7 cc
1147 α-Isopropylglyceryl ether	Mouse	or	LD ₅₀	8200±135
1148 2-Isopropyl-5-methylphenoxyethyl-benzyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	100
1149 2-Isopropylphenoxyethyl-benzyl-β-chloroethylamine	Mouse	sc	LD ₅₀	>1000
1150 2-Isopropylphenoxyethyl-ethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	35
1151 2-Isopropylphenoxyisopropyl-benzyl-β-chloroethylamine	Mouse	sc	LD ₅₀	1000
1152 p-Isopropylphenylethyl alcohol	Mouse Rat	or or	LD ₅₀ LD ₅₀	3.9 cc 1.8 cc
1153 Isopropyl tartrate	Mouse	or	LD ₅₀	6.3 cc
1154 Isoquinoline	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	350 590
1155 Isothan Q-15	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	210 200
1156 Jervine	Mouse	iv	LD ₅₀	9.3
1157 Kerosene	Guinea pig Rabbit Rabbit Rabbit	o. or ip iv	LD ₅₀ * LD ₅₀ * LD ₅₀ * LD ₅₀ *	25.380 28.350 6600 180
1158 4-Keto-N,N-dimethylammonium iodide	Mouse	sc	LD ₅₀	13.5±2.4
1159 4-Ketobutyl-N,N-dimethylammonium iodide	Mouse	sc	LD ₅₀	>170

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Starrek, Dissert., Würzburg 1938. Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Weese, Arch. exp. Path. Pharm. 135:118, 1928. Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Macht, J. Pharm. Exp. Ther. 16:1, 1921.	1140
670-1070 300-1020			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1141
			Randall, J. Pharm. Exp. Ther. 103:10, 1951. Ibid	1142
2430-5730			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1143
			Anselow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid Ibid Ibid	1144
			Berger, Arch. int. pharmacod. 85:474, 1951.	1145
			Draize, J. Pharm. Exp. Ther. 93:26, 1948.	1146
			Loeb, Fed. Proc. 8:316, 1949.	1147
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:378, 1951.	1148
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:378, 1951.	1149
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:378, 1951.	1150
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:378, 1951.	1151
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	1152
			Div. Pharm. F. & D. Adm. Q. Rpt., April 1946.	1153
380-910			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1154
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954. Ibid	1155
			Krayer, J. Pharm. Exp. Ther. 82:167, 1944.	1156
			Deichmann, Ann. Int. M. 21:603, 1944. Ibid Ibid Ibid	1157
		2 hr	Edwards, J. Pharm. Exp. Ther. 103:196, 1951.	1158
		2 hr	Edwards, J. Pharm. Exp. Ther. 103:196, 1951.	1159

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1160	Krysolgan	Rat	sc	LD	40
		Rat	iv	LD	1
		Rabbit	iv	LD	150
		Rabbit	iv	LD	30
1161	Lactic acid	Rat	or	LD ₅₀	3750
		Guinea pig	or	LD ₅₀	1810
1162	Lactose	Rabbit	iv	LD	1500
1163	Lanadigin	Frog	sc	LD	1.6
		Rat	sc	LD	4.5
		Rat	iv	MLD	40.5 ¹
		Rat	iv	MLD	25 ²
		Rabbit	sc	LD	1.3
1164	Lanthanum acetate	Rat	or	LD ₅₀	10,000
		Rat	ip	LD ₅₀	475
1165	Lanthanum ammonium nitrate	Rat	or	LD ₅₀	3400
		Rat	ip	LD ₅₀	625
1166	Lanthanum chloride	Mouse	sc	LD	3500
		Rat	or	LD	4200
		Rat	ip	LD	350
		Rabbit	iv	LD	200-250
1167	Lanthanum nitrate	Rat	or	LD ₅₀	4500
		Rat	ip	LD ₅₀	450
1168	Lanthanum oxide	Rat	or	LD ₅₀	>10,000 ³
1169	Lanthanum sulfate	Rat	or	LD ₅₀	>5000 ³
		Rat	ip	LD ₅₀	275 ³
1170	Larocaine	Frog	sc	LD	860
		Mouse	sc	LD	310
		Mouse	sc	LD	300
		Mouse	iv	LD	40
		Mouse	iv	LD	50
		Guinea pig	sc	LD	200
		Rabbit	sc	LD	150
		Rabbit	iv	LD	15
1171	Lauryldiethylenetriamine	Rat	or	MLD ⁴	350
		Rabbit	or	MLD ⁴	400
		Rabbit	iv	MLD ⁴	10
1172	Lead	Rat	ip	LD	>1000 ⁴
		Guinea pig	ip	LD ₅₀	100
		Guinea pig	ip	LD ₂₅	200
		Pigeon	or	LD	160

/1/ Given by slow injection. /2/ Given by rapid injection. /3/ Suspension in H₂O. /4/ Parti-

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		Sev da 7 mo Rapid Sev da	Schlossmann, Hefter's Hdb. 3, 3:2135. Ibid Ibid Ibid	1160
3020-4610 1690-1930			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	1161
			Flury, Abderhalden's Hdb. 4, 7b:1422.	1162
		24 hr Rapid 2 hr	Samaan, Q. J. Pharm. Pharmacol. 7:192, 1934. Merz, Arch. exp. Path. Pharm. 156:277, 1930. Heubner, Arch. exp. Path. Pharm. 177:60, 1934. Ibid Samaan, Q. J. Pharm. Pharmacol. 7:192, 1934.	1163
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1164
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1165
	H ₂ O H ₂ O H ₂ O		Vincke, Arch. exp. Path. Pharm. 188:465, 1938. Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid Ibid	1166
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1167
	H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	1168
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1169
			Gessner, Arch. exp. Path. Pharm. 168:447, 1932. Ibid Frommers, Arch. exp. Path. Pharm. 158:368, 1930. Ibid Gessner, Arch. exp. Path. Pharm. 168:447, 1932. Dietrichs, Arch. exp. Path. Pharm. 161:206, 1931. Frommers, Arch. exp. Path. Pharm. 158:368, 1930. Ibid	1170
			Deichmann, J. Ind. Hyg. Tox. 22:488, 1940. Ibid Ibid	1171
		4 mo 4 mo	Bradley, Indust. Med. 2:15, 1941. Fairhall, Pub. Health Bull. 253, 1940. Ibid Flury, Abderhalden's Hdb. 4, 7b:1314.	1172

cle size = 325 mesh.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1173 Lead acetate	Frog	sc	LD	1660
	Rat	ip	LD	130
	Rat	ip	LD ₅₀	150
	Rabbit	sc	LD	300
	Rabbit	iv	LD	50
	Rabbit	iv	LD	300-400
	Cat	sc	LD	100
	Dog	or	LD	300
	Dog	sc	LD	80
	Dog	iv	LD	9
	Dog	iv	LD	300
1174 Lead arsenate	Rat	or	LD ₅₀ *	825
	Rat	or	LD ₅₀ *	100
	Rabbit	or	LD ₅₀ *	125
	Rabbit	or	MLD	200
	Chicken	or	LD ₅₀ *	450
	Sheep	or	LD	4940 ¹
1175 Lead carbonate	Guinea pig	or	MLD*	1000
	Guinea pig	ip	LD	124
	Guinea pig	ip	LD ₇₅	250
1176 Lead chloride	Guinea pig	or	MLD	1500-2000
1177 Lead chromate	Guinea pig	ip	LD ₇₅	156
	Guinea pig	ip	LD ₆₆	310
1178 Lead dioxide	Guinea pig	ip	LD ₃₃	115
	Guinea pig	ip	LD ₆₆	230
1179 Lead lactate	Guinea pig	or	LD ₂₅	1000-4000
1180 Lead monoxide	Rat	ip	LD ₅₀	400
	Guinea pig	ip	LD ₄₀	108
	Guinea pig	ip	LD ₇₅	210
1181 Lead nitrate	Rat	ip	LD	270
	Guinea pig	or	LD	2000
1182 Lead oleate	Guinea pig	or	LD	8000
1183 Lead orthoarsenate	Guinea pig	ip	LD ₁₀₀	160
	Guinea pig	ip	LD ₅₀	38
1184 Lead orthophosphate	Guinea pig	ip	LD ₃₃	131
	Guinea pig	ip	LD	260
1185 Lead oxide	Rat	ip	LD ₅₀	450
	Guinea pig	or	MLD	2000
1186 Lead (red)	Guinea pig	ip	LD ₄₀	118
	Guinea pig	ip	LD ₅₀	220
1187 Lead silicate	Guinea pig	ip	LD	136
1188 Lead stearate	Guinea pig	or	MLD	20,000

1/ Lead monoarsenate.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		3-4 da	Flury, Abderhalden's Hdb. 4.7b:1314. Buck, J. Pharm. Exp. Ther. 38:161, 1930. Bradley, Indust. Med. 2:15, 1941.	1173
		27 da	Flury, Abderhalden's Hdb. 4.7b:1314	
		2 da	Ibid	
		Few min	Ibid	
			Ibid	
		11 da	Ibid	
			Ibid	
		11-12 da	Ibid	
		24 hr	Ibid	
			Voigt, J. Am. Pharm. Assoc. 37:122, 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Voigt, J. Am. Pharm. Assoc. 37:122, 1948. Ibid Ibid McCulloch, J. Am. Vet. M. Assoc. 96:321, 1940.	1174
		2½ da	Tartler, Arch. Hyg. 125:273, 1941.	1175
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	
		4 mo	Ibid	
			Tartler, Arch. Hyg. 125:273, 1941.	1176
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	1177
		4 mo	Ibid	
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	1178
		4 mo	Ibid	
		6 mo	Tartler, Arch. Hyg. 125:273, 1941.	1179
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	1180
		4 mo	Bradley, Indust. Med. 2:15, 1941.	
		4 mo	Ibid	
		2½ hr	Buck, J. Pharm. Exp. Ther. 38:161, 1930. Tartler, Arch. Hyg. 125:273, 1941.	1181
			Tartler, Arch. Hyg. 125:273, 1941.	1182
		18 hr	Fairhall, Pub. Health Bull. 253, 1940.	1183
		18 hr	Ibid	
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	1184
		4 mo	Ibid	
			Bradley, Indust. Med. 2:15, 1941. Tartler, Arch. Hyg. 125:273, 1941.	1185
		4 mo	Fairhall, Pub. Health Bull. 253, 1940.	1186
		4 mo	Ibid	
			Fairhall, Pub. Health Bull. 253, 1940.	1187
			Tartler, Arch. Hyg. 125:273, 1941.	1188

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1189	Lead sulfate	Guinea pig	or	MLD*	35,000
		Guinea pig	ip	LD ₁₀	146
		Guinea pig	ip	LD ₇₅	250
		Dog	or	LD	2000-3000
1190	Lead sulfide	Rat	ip	LD ₅₀	1600
		Guinea pig	or	MLD	10,000
		Guinea pig	ip	LD ₂₀	113
		Guinea pig	ip	LD ₅₅	220
1191	Lead tetraethyl	Rat	ip	MLD*	10
		Rabbit	sc	MLD	312-468
		Rabbit	iv	MLD	21.8-46.8
1192	Leptoxide	Cat	iv	LD ₅₀	1,888
1193	Lergigan	Rat	sc	LD ₅₀ *	400
		Rat	sc	LD ₁₀₀ *	700
1194	Lethane (special) ¹	Rat	or	LD ₅₀	400
		Rabbit	ct	LD ₅₀	1000
1195	Lethane 60	Rat	or	LD ₅₀	500
		Rabbit	ct	LD ₅₀	10,000
1196	Lethane 384 ²	Rat	or	LD	90
		Rat	or	LD	0.5 cc
		Rat	ct	LD	0.6 cc
		Rat	sc	LD	0.55 cc
		Rat	ip	LD	0.09 cc
		Guinea pig	or	LD	0.4 cc
		Guinea pig	sc	LD	0.45 cc
		Guinea pig	ip	LD	0.084 cc
		Rabbit	or	LD	0.12 cc
		Rabbit	ct	LD	0.4 cc
		Rabbit	ct	LD	0.25-0.5 cc
		Rabbit	sc	LD	0.10 cc
		Rabbit	ip	LD	0.08 cc
		Dog	or	LD	0.05 cc
		Dog	sc	LD	0.2 cc
1197	Levulose	Rabbit	iv	LD	16,300-18,000
1198	Licheniformin A5	Mouse	sc	LD ₅₀	670
		Mouse	ip	LD ₅₀	476
		Mouse	iv	LD ₅₀	368
		Rat	sc	LD ₅₀	300
		Guinea pig	sc	LD ₅₀	670
		Guinea pig	ip	LD ₅₀	500
		Guinea pig	iv	LD ₅₀	100
1199	Lithium chloride	Frog	sc	LD	885.8
		Mouse	ip	LD ₅₀	1060
	(continued on next page)	Guinea pig	sc	LD	610.9

1/1/ Lethane 60-3 parts, lethane 384-1 part./2/ 50% solution of p-butyl-p-thiocyanodiethyl

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		4 mo 4 mo	Tartler, Arch. Hyg. 125:273, 1941. Fairhall, Pub. Health Bull. 253, 1940. Ibid Flury, Abderhalden's Hdb. 4.7b:1314.	1189
		3 da 4 mo 4 mo	Bradley, Indust. Med. 2:15, 1941. Tartler, Arch. Hyg. 125:273, 1941. Fairhall, Pub. Health Bull. 253, 1940 Ibid	1190
	H ₂ O		Buck, J. Pharm. Exp. Ther. 38:161, 1930. Obara, Tohoku J. E. M. 46:295, 1944. Bischoff, J. Pharm. Exp. Ther. 34:85, 1928.	1191
1,360-2,850	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1192
		48 hr	Halpern, C. rend. Soc. biol. 144:887, 1950. Ibid	1193
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952.	1194
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952.	1195
	Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil Pet oil		Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Main, Indust. Med. 11:531, 1942. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952. Main, Indust. Med. 11:531, 1942. Ibid Ibid Ibid	1196
			Flury, Abderhalden's Hdb. 4.7b:1422.	1197
587-719 457-496 356-381			Keppie, Brit. J. Pharm. 5:474, 1950. Ibid Ibid Ibid Ibid Ibid	1198
			Flury, Abderhalden's Hdb. 4.7b:1362. Allee, Univ. Cal. Publ. Pharmacol. 1:187, 1939. Flury, Abderhalden's Hdb. 4.7b:1362.	1199

ether in light petroleum oil.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1199	Lithium chloride (concluded)	Rabbit	sc	LD	511
		Cat	sc	LD	400-500
		Pigeon	sc	LD	515.2
1200	Lithium fluoride	Frog	sc	LD	250
		Guinea pig	or	LD	200
		Guinea pig	sc	LD	2000
1201	Longitobine	Mouse	iv	LD ₅₀	76.86±4.84
1202	α-Longitobine	Mouse	iv	LD ₅₀	71.52±4.65
1203	β-Longitobine	Mouse	iv	LD ₅₀	77.2±5.0
1204	Luminal	Mouse	or	LD ₅₀	325
		Mouse	ip	LD ₅₀	340
		Mouse	ip	LD ₅₀	235±12
		Rat	or	LD ₅₀	660
		Rat	sc	LD ₅₀	200
		Rat	ip	LD ₅₀	199
		Rat	ip	M.LD	155
		Rabbit	or	MLD	150
		Rabbit	ip	MLD	150
		Rabbit	iv	LD ₅₀	185
		Cat	or	LD ₅₀ ^a	175
1205	Lunarine	Mouse	iv	LD ^b	62.3
1206	Lupetidine	Frog	sc	LD ^c	625-775
1207	Lupulon	Mouse	or	LD ₅₀	1500
		Mouse	im	LD ₅₀	600
		Rat	or	LD ₅₀	1800
		Rat	im	LD ₅₀	330
		Guinea pig	or	LD ₅₀	130
1208	Magnesium acetate	Mouse	iv	LD ₅₀	18.35
1209	Magnesium chloride	Rat	or	LD ₅₀	5250
		Rat	ip	LD ₅₀	1100
1210	Magnesium chloride	Rat ^d	sc	MLD	900
		Rat	ip	LD	225
		Rat	iv	LD	176
1211	Magnesium fluoride	Frog	sc	LD	>2500
		Guinea pig	or	LD	1000
		Guinea pig	sc	LD	3000
1212	Magnesium silicofluoride	Frog	sc	LD	375
		Guinea pig	or	LD	200
		Guinea pig	sc	LD	400
1213	Magnesium sulfate	Guinea pig	sc	MLD	>1800
		Rabbit	sc	MLD	>1750
		Cat	sc	MLD	>1000
		Dog	sc	LD	>1750

(continued on next page)

/1/ Young rat.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Flury, Abderhalden's Hdb. 4.7b:1362. Ibid Ibid	1199
			Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Ibid	1200
			Henderson, Proc. Soc. Exp. Biol. Med. 76:530, 1951.	1201
			Henderson, Proc. Soc. Exp. Biol. Med. 76:530, 1951.	1202
			Henderson, Proc. Soc. Exp. Biol. Med. 76:530, 1951.	1203
			Reinhard, J. Pharm. Exp. Ther. 106:444, 1952. Gruber, J. Pharm. Exp. Ther. 81:254, 1944. Way, J. Pharm. Exp. Ther. 87:265, 1946. Schaffarsick, Science 116:663, 1952. Vogt, Arch. exp. Path. Pharm. 152:341, 1930. Gruber, J. Pharm. Exp. Ther. 81:254, 1944. Fitch, J. Pharm. Exp. Ther. 44:325, 1932. Ibid Ibid Gruber, J. Pharm. Exp. Ther. 81:254, 1944. Krop, J. Pharm. Exp. Ther. 88:260, 1946.	1204
			Henderson, J. Am. Pharm. Assoc. 39:516, 1950.	1205
			Gruber, Arch. Anat. Physiol. 401:1890.	1206
			Vin Ch'ang Chin. Fed. Proc. 8:281, 1949. Ibid Ibid Ibid Ibid	1207
		48 hr	Welch, J. Lab. Clin. Med. 29:809, 1944.	1208
			Ulrich, J. Pharm. Exp. Ther. 35:1, 1929. Ibid	1209
		1 hr	Maim, Endocrinology 24:523, 1939.	1210
		3-5 min	Ulrich, J. Pharm. Exp. Ther. 35:1, 1929. Loesser, J. Lab. Clin. Med. 15:33, 1929.	
			Simonin, C. rend. Soc. biol. 125:133, 1937. Ibid Ibid	1211
			Simonin, C. rend. Soc. biol. 125:133, 1937. Ibid Ibid	1212
			Meltzer, Am. J. Physiol. 14:366, 1905. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1364.	1213

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
1213 Magnesium sulfate (concluded)	Dog	ip	LD	1200-2000
	Dog	iv	LD	500-1000
1214 Malachite green	Rabbit	or	LD	751
1215 Malathion ²	Mouse ¹	or	LD ₅₀	885 ³
	Mouse	or	LD ₅₀	1120
	Rat ¹	or	LD ₅₀	1100
	Rat ²	or	LD ₅₀	12
	Rat	or	LD ₅₀	480 ³
	Rat	or	LD ₅₀	1400
	Rat	ip	LD ₅₀	750
	Rat	iv	LD ₅₀ [*]	50
	Guinea pig	or	LD ₅₀	570
1216 Maleic hydrazide	Rat	or	LD ₅₀	4000
	Rabbit	ct	LD ₅₀ [*]	>4000
1217 Malonic acid	Frog	sc	LD	800-1000
	Mouse	ip	LD ₅₀	1550
	Rat	ip	LD ₅₀	1540
	Rabbit	ip	LD ₅₀	640
1218 Malonylnitrile	Frog	sc	LD	95
	Mouse	ip	LD ₅₀	12.75±0.39
	Rabbit	sc [*]	LD	6-7
	Pigeon	im	M-LD	80
1219 Mandelic acid	Rat	or	MLD	3000
	Rat	im	LD ₅₀	300
1220 Mandelonitrile	Frog	sc	LD	600
	Mouse	sc	LD	23
	Rabbit	sc	LD	6
	Pigeon	im	LD	22
1221 Manganese chloride MnCl ₂ ·4H ₂ O	Mouse	sc	LD	180-250
	Guinea pig	sc	LD	180
	Rabbit	sc	LD	180
	Rabbit	iv	MLD	64.8
	Dog	iv	LD ₅₀	201.6
1222 Manganese dioxide	Mouse	sc	LD	500
	Rabbit	iv	LD	45.36
1223 Manomnin	Cat	iv	LD ₅₀	0.1407
1224 Maphasen	Mouse	ip	LD ₅₀	42.6
	Mouse	ip	LD ₅₀	42.7±2.4
	Rat	or	MLD	>30
	Rat	im	MLD	>21
	Rat	iv	MLD	>21
	Rabbit	ip	LD ₅₀	11
1225 Marcellid	Mouse	or	LD ₅₀	968±29
	Mouse	ct	LD ₅₀	720
	Mouse	sc	LD ₅₀	712
	Mouse	sc	LD ₅₀	100000

(continued on next page)

/1/ Daily /2/ Formerly Malathion. /3/ Technical. *0% solution in oil

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Flury, Abderhalden's Hdb. 4.7b:1364. Ibid	1213
		6-10 da	Deschiens, C. rend. Soc. biol. 138:838, 1944.	1214
	Veg oil		Holland, Fed. Proc. 11:357, 1952. Hagan, Fed. Proc. 12:327, 1952. Ibid	1215
	Veg oil		Ibid Holland, Fed. Proc. 11:357, 1952. DuBois, Arch. ind. Hyg. Occ. Med. 8:350, 1953. Ibid Hagan, Fed. Proc. 12:327, 1952. Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Lehman, Q. Bull. Assoc. F. & D. Off. 65:3, 1952.	1216
			Heymans, Dubois' Arch. f. Physiol. 168, 1889. Gruber, Arch. int. pharmacod. 79:461, 1949. Ibid Ibid	1217
			Heymans, Arch. int. pharmacod. 3:77, 1897. Nash, Arch. int. pharmacod. 84:385, 1950. Heymans, Arch. int. pharmacod. 3:77, 1897. Meurice, Arch. int. pharmacod. 7:11, 1900.	1218
			Meier, Arch. int. pharmacod. 64:79, 1940. Boyd, Exp. Med. Surg. 4:223, 1946.	1219
		6 hr	Verbrugge Arch. int. pharmacod. 5:161, 1899. Hunt, Arch. int. pharmacod. 12:447, 1904. Verbrugge, Arch. int. pharmacod. 5:161, 1899. Meurice, Arch. int. pharmacod. 7:11, 1900.	1220
		12 hr 12 hr	Langecker, Heffter's Hdb. 3.2:1346. Ibid Ibid Ibid Carvinka, C. rend. Soc. biol. 102:262, 1929.	1221
			Langecker, Heffter's Hdb. 3.2:1346. Sabatini, Ber. Phys. med. Ges. 47:336, 1928.	1222
0.1196-0.1771	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1223
			Eagle, J. Pharm. Exp. Ther. 81:142, 1949. Beck, Proc. Soc. Exp. Biol. Med. 78:392, 1951. Nelson, J. Pharm. Exp. Ther. 63, 122, 1938. Ibid Ibid Eagle, J. Pharm. Exp. Ther. 81:142, 1949.	1224
		1 da	Benson, Am. Rev. Tuberc. 65:376, 1952. Grunberg, Q. Bull. Sea View Hosp. 13:3, 1952. Ibid	1225
		1 da	Benson, Am. Rev. Tuberc. 65:376, 1952.	

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1225	Marsilal (concluded)	Mouse	im	LD ₅₀	681±47.8
		Mouse	ip	LD ₅₀	690
		Mouse	iv	LD ₅₀	725±16.3
		Mouse	iv	LD ₅₀	689
		Rat	or	LD ₅₀	381
		Rabbit	or	LD ₅₀	150
		Rabbit	iv	LD ₅₀	150
1226	Mecholyl HCl	Mouse	or	LD ₅₀	1100
		Mouse	sc	LD ₅₀	90
		Mouse	iv	LD ₅₀	15
		Rat	or	LD ₅₀	750
		Rat	sc	LD ₅₀	75
		Rat	iv	LD ₅₀	20
1227	Mefurone	Rat	?	LD ₅₀	25±0.2
		Mouse	?	LD ₅₀	33±0.2
1228	Menadione	Mouse	or	LD ₁₀₀	1000 ¹
		Mouse	ip	LD ₁₀₀	200 ¹
		Chicken	ip	LD ₁₀₀	250 ¹
1229	Menthol (natural)	Mouse	sc	LD	5000-6000
		Rat	sc	LD	1000-2500
		Cat	or	LD	800-1000 ²
		Cat	ip	LD	800-1000 ²
1230	Menthol (synthetic)	Mouse	sc	LD	1400-1600
		Cat	or	LD	1500-1600 ²
		Cat	ip	LD	1500-1600 ²
1231	Mephenezin carbamate	Mouse	or	LD ₅₀	2.77
		Mouse	ip	LD ₅₀	7.67
1232	Mephentermine	Mouse	ip	LD ₅₀	100-110
1233	Mercuhydrin	Mouse	sc	LD ₅₀	84±2
		Rat	sc	LD ₅₀	12.5
		Rat	im	LD ₅₀	11.8±0.4
		Rat	iv	LD ₅₀	25
1234	Mercuric chloride	Mouse	sc	LD ₅₀	23
		Mouse	iv	LD ₅₀	7.6
		Mouse	iv	LD ₅₀	14±2.4 ³
		Mouse	iv	LD ₅₀	4.8±0.8 ³
		Rat	or	LD ₅₀ [*]	37
		Rabbit	sc	LD	10
1235	Mercurochrome	Rabbit	iv	LD	15-20
1236	Mercurophylline	Mouse	sc	LD ₅₀	163±2
		Mouse	iv	LD ₅₀	55.6
		Mouse	iv	LD ₅₀	43.6±3
		Rat	sc	LD ₅₀	21
		Rat	iv	LD ₅₀	84-112
		Rabbit	iv	LD ₅₀	7.1

/1/ Suspension in oil. /2/ Emulsion. /3/ As mercury.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		1 da 1 da 1 da 1 wk 1 da 1 da	Benson, A. 1. Rev. Tuberc. <u>65:376</u> , 1952. Ibid Ibid Grunberg, Q. Bull. Sea View Hosp. <u>13:3</u> , 1952. Benson, Am. Rev. Tuberc. <u>65:376</u> , 1952. Ibid Ibid	1225
			Molitor, J. Pharm. Exp. Ther. <u>58:337</u> , 1936. Ibid Ibid Ibid Ibid Ibid	1226
			Slaughter, J. Pharm. Exp. Ther. <u>101:33</u> , 1951. Ibid	1227
	Oil Oil Oil		Molitor, Proc. Soc. Exp. Biol. Med. <u>43:125</u> , 1940. Ibid Ibid	1228
	Oil Oil		Flury, Abderhalden's Hdb. <u>4.7b:1365</u> . Ibid Ibid Ibid	1229
	Oil		Flury, Abderhalden's Hdb. <u>4.7b:1365</u> . Ibid Ibid	1230
			Dresel, Proc. Soc. Exp. Biol. Med. <u>79:286</u> , 1952. Ibid	1231
			Seifter, 116th Meet. Am. Chem. Soc., 1949.	1232
		1-7 da 1-7 da	Blumberg, J. Pharm. Exp. Ther. <u>105:336</u> , 1952. Orth, Fed. Proc. <u>9:305</u> , 1950. Blumberg, J. Pharm. Exp. Ther. <u>105:336</u> , 1952. Orth, Fed. Proc. <u>9:305</u> , 1950.	1233
	H ₂ O	3 hr 4 da	Wien, Q. J. Pharm. Pharmacol. <u>12:212</u> , 1939. Ibid Lehman, J. Pharm. Exp. Ther. <u>99:149</u> , 1950. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951. Hesse, Arch. exp. Path. Pharm. <u>177:266</u> , 1926.	1234
		7-10 da	Cohen, J. Pharm. Exp. Ther. <u>34:343</u> , 1929.	1235
		$\frac{1}{2}$ hr 4 da 1-7 da 50 min $\frac{1}{2}$ hr	Blumberg, J. Pharm. Exp. Ther. <u>105:336</u> , 1952. Lehman, J. Pharm. Exp. Ther. <u>99:149</u> , 1950. Ibid Orth, Fed. Proc. <u>9:305</u> , 1950. Ibid Lehman, J. Pharm. Exp. Ther. <u>99:149</u> , 1950.	1236

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
1237 Mersalyl theophylline	Mouse	sc	LD ₅₀	74±4
	Rat	im	LD ₅₀	10.8±0.2
1238 Merthiolate	Mouse	sc	LD ₅₀	66
	Mouse	iv	LD ₅₀	45
1239 Mesantoin	Rat	ip	LD ₁₀₀	270 ¹
	Guinea pig	ip	LD ₅₀	215 ¹
1240 Metacide	Rat	or	LD ₅₀	12.7
	Rat	ip	LD ₅₀	3.5
1241 Methacrylaldehyde	Rat	or	LD ₅₀	140
	Rabbit	ct	LD ₅₀	0.43 cc
1242 Methacrylonitrile	Mouse	or	LD*	15
	Mouse	ip	LD*	15
1243 D-Methadone HCl	Mouse	ip	LD ₅₀	65
	Mouse	iv	LD ₅₀	30.6±1.0
	Rat	ip	LD ₅₀	72
1244 DL-Methadone HCl	Frog ²	sc	LD ₅₀	102±20
	Frog ³	sc	LD ₅₀	55.5±5.3
	Turtle	sc	LD ₅₀	31.3±2.2
	Mouse	or	LD ₅₀	93.7±9.5
	Mouse	sc	LD ₅₀	48±19
	Mouse	sc	LD ₅₀	40
	Mouse	sc	LD ₅₀	33.7±5.4
	Mouse	ip	LD ₅₀	31
	Mouse	ip	LD ₅₀	38.2±1.9
	Mouse	iv	LD ₅₀	17.3±0.9
	Mouse	iv	LD ₅₀	18
	Mouse	iv	LD ₅₀	20.9±1.6
	Mouse	iv	LD ₅₀	20±5
	Rat	or	LD	90.0±10.8
	Rat	or	LD ₅₀	95.0±33
	Rat	sc	LD ₅₀	12.4±2.5
	Rat	sc	LD ₅₀	48
	Rat	sc	LD ₅₀	100±19
	Rat	sc	LD ₅₀	45±16
	Rat	ip	LD ₅₀	23.8±2.4
	Rat	ip	LD ₅₀	33
	Rat	ip	LD ₅₀	40
	Rat	iv	LD ₅₀	10.4±1.19
	Rat ⁴	iv	LD ₅₀	14.6±1.58
	Rat	iv	LD ₅₀	9.2±0.4
	Guinea pig	sc	LD ₅₀	54.4±3.6
	Monkey	sc	LD ₅₀	10-20
	Pigeon	iv	LD ₅₀	50.9±3.1
	Duck ⁵	iv	LD ₅₀	12.0±3.6

/1/ 10% solution in propylene glycol. /2/ Leopard frog. /3/ African clawed frog. /4/ Young

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Blumberg, J. Pharm. Exp. Ther. <u>105:336</u> , 1952. Ibid	1237
			Wien, Q. J. Pharm. Pharmacol. <u>12:212</u> , 1939. Ibid	1238
	Prop gly Prop gly		Pers. comm., Scandoz Chem. Works, 1950. Ibid	1239
			DuBois, Fed. Proc. <u>9:269</u> , 1950. DuBois, Arch. Ind. Hyg. Occ. Med. <u>6:9</u> , 1952.	1240
100-190 0.28-0.66 cc			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	1241
			McOmie, J. Ind. Hyg. Tox. <u>31:113</u> , 1949. Ibid	1242
			Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Scott, Current Res. Anes. <u>26:12</u> , 1947. Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950.	1243
			Henderson, Arch. int. pharmacod. <u>79:282</u> , 1949. Ibid Ibid Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Randall, J. Pharm. Exp. Ther. <u>99:163</u> , 1950. Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950. Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Ibid Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Scott, Current Res. Anes. <u>26:12</u> , 1947. Randall, J. Pharm. Exp. Ther. <u>99:163</u> , 1950. Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Finnegan, J. Pharm. Exp. Ther. <u>92:269</u> , 1948. Chen, Ann. N. Y. Acad. Soc. <u>51:38</u> , 1948. Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Finnegan, J. Pharm. Exp. Ther. <u>92:269</u> , 1948. Randall, J. Pharm. Exp. Ther. <u>99:163</u> , 1950. Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Eddy, J. Pharm. Exp. Ther. <u>98:121</u> , 1950. Henderson, Proc. Soc. Exp. Biol. Med. <u>68:350</u> , 1948. Ibid Finnegan, J. Pharm. Exp. Ther. <u>92:269</u> , 1948. Chen, Ann. N. Y. Acad. Sci. <u>51:83</u> , 1948. Ibid Henderson, Arch. int. pharmacod. <u>79:282</u> , 1949. Ibid	1244

rats (14 days old) are less sensitive than mature rats (4 months old. /5/ Young.

Compound	Animal	Route	Dose	Dosage mg/kg	
				Value	
1245 L-Methadone HCl	Mouse	sc	LD ₅₀	19	
	Mouse	ip	LD ₅₀	30	
	Mouse	iv	LD ₅₀	28.7±4.5	
	Rat	sc	LD ₅₀	44	
	Rat	ip	LD ₅₀	24	
1246 Methadren(e)	Mouse	sc	LD	250	
	Rat	sc	LD ₅₀ *	105	
	Rat	ip	LD ₅₀ *	50	
	Rat	iv	LD ₅₀ *	5-6	
	Rabbit	sc	LD ₅₀ *	25-30	
	Rabbit	ip	LD ₅₀ *	20-25	
	Rabbit	iv	LD ₅₀ *	2.5-3.75	
	Rabbit	iv	LD	40	
	Dog ¹	iv	LD ₅₀ *	10-15	
	Dog ²	iv	LD ₅₀ *	7.5	
1247 Methanol	Frog	iv	LD	4176	
	Mouse	or	LD	7920-9504	
	Rat	or	LD ₅₀	12,880	
	Rabbit	or	LD	6970	
	Rabbit	or	LD	11,088	
	Rabbit	iv	LD	4220	
	Rabbit	iv	MLD	15,919	
	Cat	iv	LD	4673	
	Dog	or	LD	6336	
1248 Methedrine	Mouse	ip	LD ₅₀	70	
	Mouse	ip	MLD	32	
	Rat	or	LD*	3-5	
	Rat	ip	LD	1.5-2.5	
	Rat	ip	LD	25	
1249 4-Methoxy-2-aminobenzothiazole	Mouse	or	LD ₅₀	562±124	
	Mouse	iv	LD ₅₀	46±12	
1250 5-Methoxy-2-aminobenzothiazole	Mouse	iv	LD ₅₀ *	150	
1251 6-Methoxy-2-aminobenzothiazole	Mouse	iv	LD ₅₀ *	140	
1252 p-Methoxybenzyl alcohol	Mouse	or	LD ₅₀	1.6 cc	
	Rat	or	LD ₅₀	1.2 cc	
1253 Methoxychlor	Mouse	or	LD ₂₀	800	
	Rat	or	LD ₅₀	5000	
	Rat	or	LD ₅₀ *	6000	
	Rabbit	ct	LD ₅₀ *	4000	
1254 Methoxyethyl oleate	Rat	or	LD*	16,000	
1255 2-Methoxyphenoxyethylbenzyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	50	
1256 2-Methoxyphenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	25	

/1/ Young. /2/ Ac. lit.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Ibid Scott, Current Res. Anes. <u>26:12</u> , 1947. Winter, J. Pharm. Exp. Ther. <u>98:305</u> , 1950. Ibid	1245
		24 hr 24 hr 24 hr 24 hr 24 hr	Geiger, Arch. int. pharmacod. <u>61:64</u> , 1939. Stutzman, J. Pharm. Exp. Ther. <u>69:1</u> , 1940. Ibid Ibid Ibid Ibid Ibid Ibid	1246
11,440-14,460 Macht			Sammartino, Arch. farm. sper. <u>56:351</u> , 1933. Weese, Arch. exp. Path. Pharm. <u>135:118</u> , 1928. Smyth, J. Ind. Hyg. Tox. <u>23:259</u> , 1941. Dujardin, C. rend. Acad. sc. <u>81:192</u> , 1876. Langgard, Berl. klin. Wochr. <u>49:1704</u> , 1912. Sammartino, Arch. farm. sper. <u>56:351</u> , 1933. Lehman, J. Pharm. Exp. Ther. <u>61:103</u> , 1937. Macht, J. Pharm. Exp. Ther. <u>16:1</u> , 1921. Haskell, Arch. Int. Med. <u>27:71</u> , 1921.	1247
			Lands, J. Pharm. Exp. Ther. <u>89:382</u> , 1947. Hauschild, Arch. exp. Path. Pharm. <u>195:647</u> , 1940. Hauschild, Arch. exp. Path. Pharm. <u>191:465</u> , 1939. Ibid Hauschild, Arch. exp. Path. Pharm. <u>195:647</u> , 1940.	1248
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952. Ibid	1249
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	1250
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	1251
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid	1252
	Oil Oil	7 da 72 hr	Von Oettingen, J. Pharm. Exp. Ther. <u>88:400</u> , 1946. Hodge, J. Pharm. Exp. Ther. <u>99:140</u> , 1950. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951. Ibid	1253
			Smith, Ind. Med. Hyg. <u>7:310</u> , 1953.	1254
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1255
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1256

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1257	2-Methoxyphenoxylethyl-diethylamine	Mouse	sc	LD ₅₀ *	350
1258	2-Methoxyphenoxylethyl-methylphenoxy-ethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	40
1259	m-Methoxyphenylethylamine	Mouse	ip	LD	230
1260	p-Methoxyphenylethylamine	Mouse	ip	LD	150
1261	α-(4-Methoxyphenyl)-β-methylamino-propane	Rat	ip	LD ₅₀	300
1262	α-(p-Methoxyphenyl)-β-methylamino-propane	Mouse	ip	MLD	300
1263	1-(p-Methoxyphenyl)-2-methyl-1,3-propanediol methylene ether	Mouse	or	LD ₅₀	4.5 cc
		Rat	or	LD ₅₀	4.2 cc
1264	2-Methoxy-4-propylenephenoxylethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	15
1265	Methyl acetate	Guinea pig	sc	LD	3000-5000
		Cat	sc	LD	3000
1266	Methyl acetoacetate	Rat	or	LD ₅₀	3000
		Rabbit	ct	LD ₅₀	>10,000
1267	4-Methylasculetin	Mouse	ip	LD ₅₀	>3000
1268	Methylamine	Frog	sc	LD	2000-3000
		Mouse	sc	LD	2500
		Rabbit	sc	LD	2000
		Rabbit	iv	LD	800-1000
1269	2-Methylaminobenzothiazole	Mouse	iv	LD ₅₀	166±9
1270	4-Methyl-2-aminobenzothiazole	Mouse	or	LD ₅₀	697±147
		Mouse	iv	LD ₅₀	54±4
1271	5-Methyl-2-aminobenzothiazole	Mouse	or	LD ₅₀	1070±200
		Mouse	iv	LD ₅₀	74±2
1272	6-Methyl-2-aminobenzothiazole	Mouse	or	LD ₅₀	525±168
		Mouse	iv	LD ₅₀	84±5
1273	6-Methyl-2-aminobenzothiazole, 4-methyl	Mouse	or	LD ₅₀ *	850
1274	2-Methylaminoethanol	Rat	or	LD ₅₀	2340
1275	p-di-β-3-Methylaminoethoxy-benzene diiodide	Mouse	sc	LD ₅₀	15.5±1.7
1276	2-Methyl-6-aminoheptane	Rat	or	LD ₅₀	538
		Rat	im	LD ₅₀	146
		Rat	ip	LD ₅₀	50
1277	2-Methyl-2-n-amyl-4-acetyl-methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	1000.5±170.2

/1/ Bovet and Bovet-Mittl, "Medicaments du Système Nerveux Végétatif," New York:

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	1257
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	1258
			Epstein, J. Physiol. 76:224, 1932.	1259
			Epstein, J. Physiol. 76:224, 1932.	1260
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1261
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1262
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid	1263
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	1264
			Flury, Arch. Gewerbepath. 5:1, 1934. Ibid	1265
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	1266
			Brodersen, Acta pharm. tox. 2:109, 1951.	1267
			Flury, Abderhalden's Hdb. 4. 7b:1365. Bovet & Bovet-Nitti, ¹ Brunton, Philos. Tr. Roy. Soc. Lond. 175:197, 1884. Bovet & Bovet-Nitti, ¹	1268
			Domino, J. Pharm. Exp. Ther. 105:486, 1952.	1269
			Domino, J. Pharm. Exp. Ther. 105:486, 1952. Ibid	1270
			Domino, J. Pharm. Exp. Ther. 105:486, 1952. Ibid	1271
			Domino, J. Pharm. Exp. Ther. 105:486, 1952. Ibid	1272
			Domino, J. Pharm. Exp. Ther. 105:486, 1952.	1273
2130-2560			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1274
			Winter, J. Pharm. Exp. Ther. 100:489, 1950.	1275
			Semenza, Boll. soc. ital. biol. sper. 27:554, 1951. Ibid Ibid	1276
			Berger, Arch. int. pharmacod. 85:474, 1951.	1277

S. Karger, 1948.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1278	2-(1-Methylamyl)dioxaspirane	Mouse	ip	LD ₅₀	502.2±37.2
1279	(3-Methylamyl)dioxaspirane	Mouse	ip	LD ₅₀	465±37.2
1280	2-Methyl-2-n-amy-1,3-dioxolane	Mouse	ip	LD ₅₀	940.1±90
1281	2-Methyl-2-amy-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	594.04±26.52
1282	2-Methyl-2-sec.-amy-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	654.24±101.52
1283	Methylaniline	Rabbit	or	LD	280
		Rabbit	ct	LD	3000
		Rabbit	iv	LD	24
		Cat	iv	LD	24
1284	9-Methyl-azobicyclo-nonanol-diphenylacetate HCl	Mouse	ip	LD ₅₀	120
1285	2-Methylbenzimidazole	Mouse	iv	LD ₅₀ *	200
1286	2-Methylbenzothiazole	Mouse	iv	LD ₅₀	105±3
1287	2-Methylbenzotriazole	Mouse	iv	LD ₅₀ *	375
1288	(3-m-Methylbenzoxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	7.8±0.82
1289	(3-p-Methylbenzoxyphenyl)-trimethylammonium bromide	Mouse	iv	LD ₅₀	11.2±0.79
1290	α-Methylbenzylamine	Rat	or	LD ₅₀	940
		Rabbit	ct	LD ₅₀	780
1291	α-Methylbenzylamine-N-hydroxyethyl	Rat	or	LD ₅₀	2830
		Rabbit	ct	LD ₅₀	1540
1292	Methylbenzyl "cellosolve"	Rat	or	LD ₅₀	2290
		Rabbit	ct	LD ₅₀	5 cc
1293	Methyl-bis(β-chloroethyl)amine (Bunte salt)	Mouse	sc	LD ₅₀	500
		Mouse	iv	LD ₅₀	200
		Rabbit	iv	LD ₅₀	90
1294	Methyl-bis(β-chloroethyl)amine HCl	Mouse	or	LD ₅₀	20
		Mouse	ct	LD ₅₀	29
		Mouse	sc	LD ₅₀	2.6
		Mouse	iv	LD ₅₀ *	2
		Rat	or	LD ₅₀	10
		Rat	ct	LD ₅₀	22
		Rat	sc	LD ₅₀	1.9
		Rat	iv	LD ₅₀	1.1
		Rabbit	ct	LD ₅₀ *	15
		Rabbit	iv	LD ₅₀ *	1.6
		Dog	iv	LD ₅₀ *	1
1295	2-Methyl-1,4-butanediol	Rat	or	LD ₅₀	3460
		Rabbit	ct	LD ₅₀	2620

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1278
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1279
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1280
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1281
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1282
		130 hr	Treon, J. Ind. Hyg. Tox. <u>31:1</u> , 1949.	1283
		3-5 hr	Ibid	
		7 hr	Ibid	
			Randall, J. Pharm. Exp. Ther. <u>104:284</u> , 1952.	1284
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	1285
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	1286
			Domino, J. Pharm. Exp. Ther. <u>105:486</u> , 1952.	1287
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950.	1288
			Randall, J. Pharm. Exp. Ther. <u>99:16</u> , 1950.	1289
670-1310 420-1450			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	1290
			Ibid	
1640-4870 910-2510			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	1291
			Ibid	
			Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948.	1292
			Ibid	
			Anslow, J. Pharm. Exp. Ther. <u>91:224</u> , 1947.	1293
			Ibid	
			Ibid	
			Anslow, J. Pharm. Exp. Ther. <u>91:224</u> , 1947.	1294
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
4790-6220 2300-2890			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	1295
			Ibid	

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1296	2-Methyl-1-butene-3-one	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	180 230
1297	1-Methylbutyl cartamate	Mouse	ip	LD ₅₀	350
1298	4-(2-Methylbutyl-2)-2-chlorophenoxyethoxy-ethyl-4-chlorobenzylidimethylammonium chloride	Mouse	iv	LD ₅₀	37.4
1299	2-Methyl-2-(1-butyl-4-hydroxymethyl-1,3-dioxolane)	Mouse	ip	LD ₅₀	560±43.5
1300	2-Methyl-2-(n-butyl-4-hydroxymethyl-1,3-dioxolane)	Mouse	ip	LD ₅₀	475.02±55.68
1301	2-(Methyl-2-butyl-1,3-dioxolane)	Mouse	ip	LD ₅₀	649.02±85.24
1302	Methyl "carbitol"	Rat	or	LD ₅₀	9210
1303	Methyl "cellosolve"	Mouse Rat Guinea pig	ip or or	LD ₅₀ LD ₅₀ LD ₅₀	2150 2460 950
1304	Methyl "cellosolve" acetate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3390 5250
1305	Methyl-β-chloroethylamine	Mouse	iv	LD ₅₀ *	100
1306	Methyl-β-chloroethylethylammonium picrylsulfonate	Mouse Mouse	sc iv	LD ₅₀ LD ₅₀	2.4 1.5
1307	Methyl-β-chloroethyl-β-hydroxyethylamine HCl	Mouse Mouse Mouse Rabbit	sc ip iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ *	16 34 22.5 12
1308	2-Methyl-2-chloromethyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	850.02±51.52
1309	Methylcyclohexane	Rabbit	or	MLD	4000-4500
1310	Methylcyclohexanol	Rabbit Rabbit	or ct	MLD MLD	1750-2000 6800-9400
1311	Methylcyclohexanone	Rabbit Rabbit	or ct	MLD MLD	1000-1250 4900-7200
1312	2-Methyl-2-cyclohexyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	1000±150
1313	Methyldibenzazepine	Mouse	ip	LD ₅₀	122±14
1314	5,5'-Methylene-bis-(4,6-dioxo-2-methylidihydropyran)	Mouse	ip	LD ₅₀	350
1315	2,2'-Methylene-bis-[(4-methyl-6-butyl-3)phenol]	Rat	or	LD ₅₀	6500
1316	Methylene-bis-tetronic acid	Mouse	ip	LD ₅₀	>600

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
70-770			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1296
			Rpt. Chemother. Leukemia, So. Res. Inst. 1949.	1297
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954.	1298
			Berger, A. J. int. pharmacod. 35:474, 1951.	1299
			Berger, Arch. int. pharmacod. 85:474, 1951.	1300
			Berger, Arch. int. pharmacod. 85:474, 1951.	1301
7,900-10,710			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	1302
2130-2840			Karel, Fed. Proc. 6:342, 1947.	1303
840-1080			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	1304
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947.	1305
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid	1306
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid Ibid Ibid	1307
			Berger, Arch. int. pharmacod. 85:474, 1951.	1308
			Treon, J. Ind. Hyg. Tox. 25:199, 1943.	1309
			Treon, J. Ind. Hyg. Tox. 25:199, 1943. Ibid	1310
			Treon, J. Ind. Hyg. Tox. 25:199, 1943. Ibid	1311
			Berger, Arch. int. pharmacod. 85:474, 1951.	1312
			Randall, J. Pharm. Exp. Ther. 103:10, 1951.	1313
			Brodersen, Acta pharm. tox. 2:109, 1946.	1314
			Hagan, Fed. Proc. 11:353, 1952.	1315
			Brodersen, Acta pharm. tox. 2:109, 1946.	1316

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1317	Methylene blue ¹	Frog	sc	LD [*]	572
		Mouse	sc	LD	150
		Mouse	ip	LD ₁₀₀	400 ²
		Mouse	iv	LD ₅₀	200
		Rat	sc	LD ₅₀	400
		Rat	iv	LD	300 ³
		Guinea pig	sc	LD ₅₀	300 ⁴
		Guinea pig	ip	LD ₅₀	250 ⁵
		Rabbit	or	LD	1000
		Rabbit	ip	LD	400
		Rabbit	iv	LD ₅₀	150 ⁴
		Cat	iv	MLD	40
		Dog	or	LD	500
1318	Methylene green	Rat	or	LD ₅₀ [*]	500
		Rat	ip	LD ₅₀ [*]	125
		Rabbit	iv	LD ₅₀ [*]	150
		Cat	iv	LD ₁₀₀	75
1319	3-Methylethylamino-1, 1-di-(2'-thienyl)butane HCl	Mouse	or	LD ₅₀	253
		Mouse	sc	LD ₅₀	130
1320	3-Methylethylamino-1, 1-di-(2'-thienyl)butane HCl	Mouse	or	LD ₅₀	192
		Mouse	sc	LD ₅₀	88
1321	2-Methyl-5-ethylpyridine	Rat	or	LD ₅₀	1540
		Rabbit	ct	LD ₅₀	3800
1322	Methyl-7-fluorobutyrate	Rabbit	iv	LD ₅₀	0.1
		Cat	iv	LD ₅₀	0.2
		Monkey ⁵	iv	LD ₅₀	3-5
1323	Methylguanidine	Frog	sc	LD	170-190
		Mouse	sc	LD	550-600
		Rat	sc	MLD	750
1324	3-Methyl-5-heptanone	Mouse ⁴	or	LD	3800
		Rat ⁴	or	LD	3500
		Guinea pig	or	LD	2500
1325	2-Methyl-2-n-heptyl-4-hydroxy-methyl-1, 3-dioxolane	Mouse	ip	LD ₅₀	99 60±49 68
1326	2-Methyl-2-hexylamine	Mouse	ip	LD ₅₀	85
1327	3-Methyl-2-hexylamine	Mouse	ip	LD ₅₀	90
1328	4-Methyl-2-hexylamine	Mouse	ip	LD ₅₀	145
1329	5-Methyl-2-hexylamine	Mouse	ip	LD ₅₀	90
1330	2-Methyl-2-n-hexyl-4-hydroxy-methyl-1, 3-dioxolane	Mouse	ip	LD ₅₀	68 54±18 09
1331	2-Methyl-2-hexyl-methylamine	Mouse	ip	LD ₅₀	70

/1/ Brands may vary in toxicity. /2/ 1% solution. /3/ 2% solution. /4/ 5% solution. /5/ Rhesus.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O		Flury, Abderhalden's Hdb. 4.7b:1366. Ibid Anderson, J. Pharm. Exp. Ther. 51:150, 1934. Ibid Ibid Ibid Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1366. Anderson, J. Pharm. Exp. Ther. 51:150, 1934. Ibid Macht, Ann. Int. Med. 7:738, 1933. Flury, Abderhalden's Hdb. 4.7b:1366.	1317
			Emerson, Int. J. Leprosy 2:257, 1934. Ibid Ibid Ibid	1318
221-291 121-140			Eddy, J. Pharm. Exp. Ther. 107:385, 1953. Ibid	1319
185-199 84-93			Eddy, J. Pharm. Exp. Ther. 107:385, 1953. Ibid	1320
1220-1910			Smyth, Arch. Ind. Hyg. Occ. Med. 4:118, 1951. Ibid	1321
			Chenoweth, J. Pharm. Exp. Ther. 97:383, 1949. Ibid Ibid	1322
		2 da 1-2 hr 24 hr	Fühner, Arch. exp. Path. Pharm. 166:437, 1932. Ibid Alles, J. Pharm. Exp. Ther. 28:251, 1926.	1323
3000-4800 2800-4500 1300-4800			Morse, Fed. Proc. 12:353, 1953. Ibid Ibid	1324
			Berger, Arch. int. pharmacod. 85:474, 1951.	1325
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1326
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1327
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1328
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1329
			Berger, Arch. int. pharmacod. 85:474, 1951.	1330
			Marsh, J. Pharm. Exp. Ther. 103:325, 1951.	1331

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1332	3-Methyl-2-hexyl-methylamine	Mouse	ip	LD ₅₀	70
1333	4-Methyl-2-hexyl-methylamine	Mouse	ip	LD ₅₀	120
1334	5-Methyl-2-hexyl-methylamine	Mouse	ip	LD ₅₀	65
1335	4-Methyl-1-hydrazinophthalazine	Mouse	ip	LD ₅₀	115±7
1336	Methyl-7-hydroxycoumarin- diethoxythiophosphoric ester	Rat	or	LD ₅₀	22
		Rat	ip	LD ₅₀	15
1337	Methyl-8-hydroxyethylethyl- enimonium picrylsulfonate	Mouse	ip	LD ₅₀	7.5
		Mouse	iv	LD ₅₀	4.2
		Rabbit	iv	LD ₅₀	3-5
1338	β-(5-Methylimidazolyl-[4])- ethylamine	Mouse	ip	LD ₅₀	1000
		Guinea pig	ip	LD ₅₀	300
1339	β-(5-Methylimidazolyl-[4])- methylamine	Mouse	ip	LD ₅₀	750
		Guinea pig	ip	LD ₅₀	300
1340	Methyl iodide	Rat	or	LD ₅₀ *	150-220 ¹
		Rat	sc	LD ₅₀ *	150-220 ¹
1341	Methylmercury chloride	Rabbit	iv	LD*	15
1342	Methylmercury thioglycolate sodium	Rat	ip	MLD	40
		Rabbit	iv	MLD	20
1343	Methylmethacrylate	Rat	or	LD ₅₀	8420
		Rat	or	LD ₅₀	9360
		Rabbit	or	LD*	6550-7490
1344	2-Methyl-2-(1'-methylol-n-amy)- 1,3-dioxolane	Mouse	ip	LD ₅₀	571.2±54.52
1345	2-Methyl-2-L-methylpentyl-4- hydroxymethyl-1-dioxolane	Mouse	ip	LD ₅₀	25.18±109.08
1346	N-Methylmorpholine	Rat	or	LD ₅₀	2720
		Rabbit	ct	LD ₅₀	1350
1347	Methyl-1-naphthaleneacetic acid	Rat	or	LD ₅₀ *	2140
1348	2-Methyl-2,4-pentandiol	Mouse	or	LD ₅₀	4158
		Mouse	ip	LD ₅₀	1386
		Rat	or	LD ₅₀	3696
		Guinea pig	or	LD ₅₀	2587
		Rabbit	or	LD ₅₀	2956
1349	Methylpentanediol-2,4	Rat	or	LD ₅₀	4700
		Rabbit	ct	LD ₅₀	13,300
1350	2-Methylpentanol-1	Rat	or	LD ₅₀	1410
		Rabbit	ct		3.56 cc
1351	2-Methyl-2-pentene-1-ol	Rat	or	LD ₅₀	4920
		Rabbit	ct	LD ₅₀	3.0 cc

/1/ 10% solution in oil.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Marsh, J. Pharm. Exp. Ther. <u>103:325</u> , 1951.	1332
			Marsh, J. Pharm. Exp. Ther. <u>103:325</u> , 1951.	1333
			Marsh, J. Pharm. Exp. Ther. <u>103:325</u> , 1951.	1334
			Walker, J. Pharm. Exp. Ther. <u>101:369</u> , 1951.	1335
			Cochran, Fed. Proc. <u>10:287</u> , 1951. Ibid	1336
			Anslo, J. Pharm. Exp. Ther. <u>91:224</u> , 1947. Ibid Ibid	1337
			Alles, J. Pharm. Exp. Ther. <u>76:386</u> , 1943. Ibid	1338
			Alles, J. Pharm. Exp. Ther. <u>76:386</u> , 1943. Ibid	1339
	Oil Oil		Chem. Absts. <u>45:5316e</u> , 1951. Ibid	1340
		4-5 min	Cohen, J. Pharm. Exp. Ther. <u>35:343</u> , 1929.	1341
		24 hr 1-2 wk	Cohen, J. Pharm. Exp. Ther. <u>35:343</u> , 1929. Ibid	1342
		7-8 min 70 min	Deichmann, J. Ind. Hyg. Tox. <u>23:343</u> , 1941. Spealman, Indust. Med. <u>14:292</u> , 1945. Deichmann, J. Ind. Hyg. Tox. <u>23:343</u> , 1941.	1343
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1344
			Berger, Arch. int. pharmacod. <u>85:474</u> , 1951.	1345
2230-3300 980-1880			Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949. Ibid	1346
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1951.	1347
			Woodard, Fed. Proc. <u>4:142</u> , 1945. Ibid Ibid Ibid Ibid	1348
			Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948. Ibid	1349
960-2080			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	1350
3750-6460 2.13-4.21 c			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10:61</u> , 1954. Ibid	1351

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1352	3-Methylpent-4-en-1-yn-3-ol	Mouse	or	LD ₅₀	1350
		Mouse	sc	LD ₅₀	1100
1353	3-Methylpentyn-1-ol	Mouse	or	LD ₅₀	940
1354	2-Methylphenoxyethylbenzyl- β -chloroethylamine	Mouse	sc	LD ₅₀	>1000
1355	2-Methylphenoxyethyl- β -chloroethylamine	Mouse	sc	LD ₅₀	750
1356	4-Methylphenoxyethyl- β -chloroethylamine	Mouse	sc	LD ₅₀	35
1357	2-Methylphenoxyethyldiethylamine	Mouse	sc	LD ₅₀	500
1358	2-Methylphenoxyethyl- β -hydroxyethylamine	Mouse	sc	LD ₅₀	500
1359	2-Methylphenoxyethyl-1-methylnaphthol- β -chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
1360	b-2-Methylphenoxyisopropylbenzyl-a-chloroethylamine	Mouse	sc	LD ₅₀ *	850
1361	2-Methylphenoxypropylenebenzylchloroethylamine	Mouse	sc	LD ₅₀ *	1000
1362	2-Methylphenyldiethyletherethyl- β -chloroethylamine	Mouse	sc	LD ₅₀ *	70
1363	2-Methyl-2-phenyl-4-hydroxy-methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	329.8±20.1
1364	2-Methylphenylisopropylamine	Mouse	ip	LD ₅₀	152
1365	3-Methylphenylisopropylamine	Mouse	ip	LD ₅₀	90
1366	4-Methylphenylisopropylamine	Mouse	ip	LD ₅₀	136
1367	2-Methylphenylthioethylbenzyl- β -chloroethylamine	Mouse	sc	LD ₅₀ *	>1000
1368	2-Methylphenylthioethyl- β -chloroethylamine	Mouse	sc	LD ₅₀ *	850
1369	2-Methylphenylthioethylethyl- β -chloroethylamine	Mouse	sc	LD ₅₀ *	60
1370	N-Methylpiperidine	Rabbit	sc	LD	400
1371	Methylpropylenebenzazepine iodide	Mouse	ip		83±6
		Mouse	iv		6.3±0.9
1372	2-Methyl-2-n-propyl-4-hydroxy-methyl-1,3-dioxolane	Mouse	ip	LD ₅₀	940.8±70.4
1373	Methylpyridium chloride	Mouse	ip	MLD	220
1374	Methylpyridinium hydroxide	Mouse	ip	MLD	220

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
1273-1431 973-1245			P'au, J. Pharm. Exp. Ther. <u>107:459</u> , 1953. Ibid	1352
			Reinhard, J. Pharm. Exp. Ther. <u>106:444</u> , 1952.	1353
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1354
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1355
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1356
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1357
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1358
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1359
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1360
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1361
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1362
			Berger, Arch.int. pharmacod. <u>85:474</u> , 1951.	1363
			Marsh, J. Pharm. Exp. Ther. <u>100:298</u> , 1950.	1364
			Marsh, J. Pharm. Exp. Ther. <u>100:298</u> , 1950.	1365
			Marsh, J. Pharm. Exp. Ther. <u>100:298</u> , 1950.	1366
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1367
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1368
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379</u> , 1951.	1369
			Wolfenstein, Ber. deut. chem. Ges. <u>34:2408</u> , 1901.	1370
			Randall, J. Pharm. Exp. Ther. <u>103:10</u> , 1951. Ibid	1371
			Berger, Arch.int. pharmacod. <u>85:474</u> , 1951.	1372
			Baxter, J. Clin. Invest. <u>25:908</u> , 1946.	1373
			Baxter, J. Clin. Invest. <u>25:908</u> , 1946.	1374

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1375 Methyl salicylate	Guinea pig	or	MLD	700
	Guinea pig	sc	MLD	1500
	Guinea pig	sc	LD	2700-2750
	Rabbit	or	LD	2750-2850
	Rabbit	sc	LD	4250-4350
	Dog	or	LD	2005-2150
	Dog	sc	LD	2250
1376 2-Methyl-2- α -thienyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	500 $\pm$ 60
1377 Methyl thiocyanate	Mouse	sc	LD ₅₀	64
	Rat	sc	LD ₂₀	29
	Cat	or	LD	8.5
1378 Methylthiouracil	Rabbit	or	MLD	2486
1379 2-Methyl-o-tolyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	852.8 $\pm$ 97.76
1380 Methyltrimethylammonium iodide	Mouse	ip	LD ₅₀	30
1381 Methyl-(β -trimethylammonium)-propionate ²	Mouse	or	LD ₅₀	87
	Mouse	ip	LD ₅₀	6.7
1382 Methyl violet 6B	Mouse	rt	LD	25
	Rabbit	or	LD	75 ³
1383 3-Methyloxanthine	Frog	sc	LD ₁₀₀	470
	Rabbit	iv	MLD	500
	Dog	iv	MLD	300-400
1384 Methyl-p-xenylacetate ester of β -Piperidinoethanol	Mouse	or	LD ₅₀	1160 $\pm$ 90
	Mouse	or	LD ₅₀	1300 $\pm$ 90
	Mouse	sc	LD ₅₀	610 $\pm$ 50
	Mouse	sc	LD ₅₀	690 $\pm$ 50
	Mouse	iv	LD ₅₀	40 $\pm$ 3
	Mouse	iv	LD ₅₀	40 $\pm$ 3
1385 Metopon	Mouse	sc	LD ₅₀	25
1386 Metrazol	Frog	sc	LD	250
	Mouse	sc	LD	80
	Mouse	sc	LD	75-90
	Mouse	ip	LD ₅₀	92
	Mouse	ip	MLC	50
	Rat	or	LD	170
	Rat	sc	LD	75-150
	Rat	sc	LD ₅₀	100
	Rat	sc	LD ₁₀₀	150
	Rat	ip	LD	70-80
	Rat	ip	MLD	50
	Rat	iv	LD	50
	Guinea pig	sc	LD	80-90

(continued on next page)

/1/ Minutes. /2/ Reversed carboxyl analogue of acetylcholine. /3/ Daily.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		8-10 hr 2-3 da 1-3 da 24 hr 30 hr	Houghton, Am. J. Physiol. <u>13</u> :331, 1905. Ibid Leone, Arch. farm. sper. <u>22</u> :327, 1916. Ibid Ibid Ibid	1375
			Berger, Arch. int. pharmacod. <u>85</u> :474, 1951.	1376
		20-46 30-55 20 min	Von Oettingen, J. Ind. Hyg. Tox. <u>18</u> :310, 1936. Ibid Ibid	1377
			Simon, Boll. soc. ital. biol. sper. <u>24</u> :803, 1948.	1378
			Berger, Arch. int. pharmacod. <u>85</u> :474, 1951.	1379
			Alles, Univ. Cal. Publ. Pharmacol. <u>1</u> :187, 1939.	1380
			Bass, J. Pharm. Exp. Ther. <u>100</u> :465, 1950. Ibid	1381
		8 da 10 da	Deschiens, C. rend. Soc. biol. <u>138</u> :838, 1944. Ibid	1382
			Impens, Arch. int. pharmacod. <u>10</u> :463, 1902. Albanese, Arch. exp. Path. Pharm. <u>43</u> :305, 1900. Ibid	1383
		7 da 24 hr 24 hr 24 hr	Lands, J. Pharm. Exp. Ther. <u>100</u> :19, 1950. Ibid Ibid Ibid Ibid	1384
			Eddy, Ann. N. Y. Acad. Sci. <u>51</u> :51, 1948.	1385
			Hildebrandt, Heffter's Hdb. <u>E. 5</u> :154. Ibid Ibid McOmie, Fed. Proc. <u>6</u> :357, 1947. Gros, J. Pharm. Exp. Ther. <u>87</u> :291, 1946. Hildebrandt, Heffter's Hdb. <u>E. 5</u> :154. Ibid Gros, Arch. exp. Path. Pharm. <u>182</u> :348, 1936. Ibid Hildebrandt, Heffter's Hdb. <u>E. 5</u> :154. Gros, J. Pharm. Exp. Ther. <u>87</u> :291, 1946. Hildebrandt, Heffter's Hdb. <u>E. 5</u> :154. Ibid	1386

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1386	Metrazol (concluded)	Guinea pig	ip	LD	90
		Rabbit	sc	LD	75-100
		Rabbit	iv	MLD	70
		Cat	sc	LD	75
		Cat	iv	LD	80
1387	Metycaine HCl	Mouse	sc	LD ₅₀	800
		Rat	sc	LD ₅₀	1300
		Rat	ip	LD ₅₀	120
		Rat	iv	LD ₅₀	20
		Rabbit	iv	LD ₅₀	28
1388	Milloside	Cat	iv	LD ₅₀	1.330
1389	Mintacol	Frog	sc	MLD	30
		Mouse	sc	MLD	2
		Mouse	sc	MLD	0.6-0.8
		Rat	or	MLD	3
1390	Miracil D	Mouse	or	LD ₅₀	500
		Mouse	iv	LD ₅₀	45
1391	Molybdenum trioxide	Guinea pig	ip	LD ₇₅	400
1392	Monacetin	Mouse	sc	LD ₅₀	4200
		Rat	sc	LD ₅₀	6600
1393	Monocaine HCl	Mouse	sc	LD ₅₀	449±26.1
		Mouse	ip	LD ₅₀	203.0±7.9
		Mouse	iv	LD ₅₀	43.2±0.95
		Rat	ip	LD ₅₀	182.3±4.8
		Rat	iv	LD ₅₀	28.2±1.6
1394	Mono-o-cresol-phosphate	Rat	iv	LD	800-1000
		Rabbit	iv	LD	>700
		Cat	iv	LD	200
1395	Monofluoroethanol	Rat	ip	LD ₅₀	5
1396	Moniodoacetic acid	Dog	iv	LD	60
1397	Monomethylarsinic acid disodium	Mouse	sc	MLD	3350
		Rabbit	iv	MLD	600
		Chicken	im	MLD	2000
1398	Monomethylnicotinium iodide	Mouse	ip	LD	5.4
		Rabbit	iv	LD	0.45
1399	Monopropylenemethylether	Rat	or	LD ₅₀	6.6 cc
1400	Morphine	Frog	sc	LD	600-800
		Mouse	sc	LD ₅₀	700
		Mouse	sc	LD ₅₀	531
		Mouse	iv	LD	226-318
		Rat	sc	LD	400
		Guinea pig	sc	LD	500-580
	(continued on next page)	Rabbit	sc	LD ₅₀	266 ¹

/1/ Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Hildebrandt, Heffter's Hdb. <u>E. 5:154.</u> Ibid Werner, J. Pharm. Exp. Ther. <u>66:260, 1939.</u> Hildebrandt, Heffter's Hdb. <u>E. 5:154.</u> Ibid	1386
			Rose, J. Lab. Clin. Med. <u>15:731, 1930.</u> Ibid Ibid Ibid Ibid	1387
1.244-1.390	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111:365, 1954.</u>	1388
	H ₂ O+cello Oil H ₂ O+cello H ₂ O+det		Hecht, Arch. exp. Path. Pharm. <u>211:264, 1950.</u> Ibid Ibid Ibid	1389
			Kikuth, Ann. Trop. Med. Parasitol. <u>42:256, 1948.</u> Wood, Q. J. Pharm. Pharmacol. <u>20:31, 1947.</u>	1390
		4 da	Fairhall, Pcb. Health Bull. <u>293:1945.</u>	1391
			Latven, J. Pharm. Exp. Ther. <u>65:89, 1939.</u> Ibid	1392
			Schram, Anesthesiology <u>3:398, 1942.</u> Ibid Ibid Ibid Ibid	1393
		<18 hr	Smith, J. Pharm. Exp. Ther. <u>51:217, 1934.</u> Ibid Ibid	1394
			Bartlett, J. Pharm. Exp. Ther. <u>106:464, 1952.</u>	1395
		26½ hr	Dobrowolski, Arch. int. pharmacod. <u>45:428, 1933.</u>	1396
		4 da 6 da 1 da	Castelli, Arch. Trop. Hyg. <u>16:605, 1912.</u> Ibid Ibid	1397
			Larson, J. Pharm. Exp. Ther. <u>77:343, 1943.</u> Ibid	1398
			Rowe, Arch. Ind. Hyg. Occ. Med. <u>9:509, 1954.</u>	1399
			Flury, Abderhalden's Hdb. <u>4.7b:1367.</u> Eddy, J. Pharm. Exp. Ther. <u>67:127, 1939.</u> Eddy, Ann. N. Y. Acad. Sci. <u>51:51, 1948.</u> Buchwald, J. Pharm. Exp. Ther. <u>71:197, 1941.</u> Flury, Abderhalden's Hdb. <u>4.7b:1367.</u> Ibid Eddy, J. Pharm. Exp. Ther. <u>71:197, 1939.</u>	1400

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
1400 Morphine (concluded)	Rabbit	sc	LD	400-600
	Rabbit ¹	ip	LD ₅₀	150 ²
	Rabbit ³	ip	LD ₅₀	500 ²
	Cat	sc	MLD	40-80
	Dog	sc	LD	210
1401 Morphine sulfate	Frog ⁴	sc	LD ₅₀	90±110
	Turtle	sc	LD ₅₀	25±51
	Mouse	sc	MLD	250
	Mouse	sc	LD ₅₀	311±53
	Mouse	sc	LD ₅₀	360±18
	Mouse	iv	LD ₅₀	230±25
	Rat	or	LD ₅₀	905±144
	Rat	sc	LD ₅₀	299±66
	Rat	sc	LD ₅₀	608±72
	Rat	ip	LD ₁₀₀	920
	Rat	iv	LD ₅₀	237±6
	Guinea pig	or	MLD	1000
	Guinea pig	sc	MLD	400
	Guinea pig	sc	LD ₅₀	391±25
	Guinea pig	im	MLD	400
	Hamster	sc	LD ₅₀	1250
	Pigeon	iv	LD ₅₀	321±32
	Duck ¹	iv	LD ₅₀	213±12
1402 Morpholine	Rat	or	LD ₅₀	1600
	Rat	or	LD ₅₀	4500 ²
	Rat	or	LD ₅₀	1090
	Guinea pig	or	LD ₅₀	900
	Rabbit	ct	LD ⁶	900
	Rabbit	ct	LD	0.50 cc
1403 Muscaroside	Cat	iv	LD ₅₀	0.4809
1404 Muscarine (native)	Frog	sc	LD ⁶	0.4
	Frog ⁵	sc	LD	0.1
	Frog ⁶	sc	LD	1
	Cat	sc	LD	1.1 ⁷
	Cat	sc	LD	3.4 ⁸
	Cat	sc	LD	9-12 ⁸
1405 Muscarine (choline)	Frog	sc	LD ⁶	1.2
	Rabbit	or	LD ⁶	260
	Rabbit	sc	LD ⁶	30
	Cat	or	LD ⁶	28.6
	Cat	sc	LD	2.8
1406 Mustard gas	Mouse	sc	LD ₅₀	36
	Mouse	ct	LD ₅₀	92
	Mouse	iv	LD ₅₀	8.6
	Mouse	iv	LD ₅₀	9
	Rat	sc	LD ₅₀	1.2 ¹⁰
	Rat	sc	LD ₅₀	0.7
	Rat	ct	LD ₅₀ ⁶	18

(continued on next page)

/1/ Young. /2/ Hydrochloride. /3/ Adult. /4/ Leopard frog. /5/ Rana esculenta. /6/ R.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Flury, Abderhalden's Hdb. 4.7b:1367. Chesler, J. Pharm. Exp. Ther. 75:363, 1942. Ibid Flury, Abderhalden's Hdb. 4.7b:1367. Ibid	1400
		1 hr	Henderson, Arch. int. pharmacod. 79:282, 1949. Ibid Nedzel, J. Lab. Clin. Med. 22:1031, 1937. Chen, Ann. N. Y. Acad. Sci. 51:83, 1948. Randall, J. Pharm. Exp. Ther. 99:163, 1950. Ibid Finnegan, J. Pharm. Exp. Ther. 92:269, 1948. Chen, Ann. N. Y. Acad. Sci. 51:83, 1948. Randall, J. Pharm. Exp. Ther. 99:163, 1950. Chesler, J. Pharm. Exp. Ther. 75:363, 1942. Finnegan, J. Pharm. Exp. Ther. 92:269, 1948. Hatcher, J. Am. Med. Assoc. 63:469, 1914. Ibid Chen, Ann. N. Y. Acad. Sci. 51:83, 1948. Hatcher, J. Am. Med. Assoc. 63:469, 1914. Houchin, Proc. Soc. Exp. Biol. Med. 54:339, 1943. Henderson, Arch. int. pharmacod. 79:282, 1949. Ibid	1401
4060-5160 950-1160 0.31-0.81 cc	H ₂ O H ₂ O		Shea, J. Ind. Hyg. Tox. 21:236, 1939. Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Shea, J. Ind. Hyg. Tox. 21:236, 1939. Ibid Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1402
0.3063-1.7481	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1403
		Sev hr 10-15 ⁹	Fühner, Heffter's Hdb. 1:644. Flury, Abderhalden's Hdb. 4.7b:1368. Ibid Ibid Ibid Ibid	
			Fühner, Heffter's Hdb. 1:644. Fühner, Arch. exp. Path. Pharm. 61:283, 1909. Ibid Flury, Abderhalden's Hdb. 4.7b:1369. Ibid	1405
	Prop gly Prop gly Prop gly Prop gly Prop gly		Anslow, J. Pharm. Exp. Ther. 93:1, 1948. Ibid Ibid Ibid Ibid Ibid	1406

temporaria. /7/ Base. /8/ Sulfate. /9/ Minutes. /10/ Undiluted.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1406	Mustard gas (concluded)	Rabbit	iv	LD ₅₀	2.7
		Rabbit	iv ¹	LD	3.6 ²
		Rabbit	iv ³	LD ₅₀	4.5 ²
		Dog	sc	LD	100
		Dog	im	LD	14
		Dog	im	LD	20
		Dog	iv	LD	11.1
1407	Myanesis	Mouse	or	LD ₅₀	2.83±3.8 ⁴
		Mouse	or	LD ₅₀	990 ⁵
		Mouse	ip	LD ₅₀	10.53±5.1 ⁴
		Mouse	ip	LD ₅₀	600.0±22.4
1408	Myristicin	Frog	sc	LD	800
		Cat	or	LD	570
		Cat	sc	LD	4000 ⁶
		Dog	iv ³	LD	571
1409	Myristil-γ-picolinium chloride	Rat	or	LD ₅₀	250
		Rat	sc	LD ₅₀	200
		Rat	ip	LD ₅₀	7.5
		Rat	iv	LD ₅₀	30
1410	Nabam	Rat	or	LD ₅₀	395
1411	Naphthaleneacetic acid	Rat	or	LD ₅₀ [*]	1000
1412	α-Naphthol	Rabbit	or	LD	9000
		Rabbit	sc	LD	3400-4000
		Cat	or	LD	100-150
		Dog	sc	LD	330
1413	β-Naphthol	Frog	sc	LD	30-100
		Rat	sc	LD	2940
		Guinea pig	sc	LD	2670
		Rabbit	or	LD	3800
		Rabbit	or	LD	3000
		Rabbit	iv	LD	130
		Rabbit	iv	LD	80
		Cat	or	LD	100-150
1414	α-Naphthylamine	Rabbit	sc	LD	300-400
		Dog	sc	LD	400
1415	1-Naphthyloxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ [*]	35
1416	2-Naphthyloxyethyl-β-chloroethylamine	Mouse	iv	LD ₅₀ [*]	70
1417	Narcotine	Frog	sc	MLD	2000
	(continued on next page)	Rat ⁷	ip	LD ₅₀	825
		Rat ⁸	ip	LD ₅₀	800

/1/ Rapid injection. /2/ Undiluted. /3/ Slow injection. /4/ Millimoles per kilo. /5/ 97-

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Prop gly	5-6 hr 77 hr 13 hr 24 hr	Anslow, J. Pharm. Exp. Ther. 93:1, 1948. Ibid Ibid Lynch, J. Pharm. Exp. Ther. 12:265, 1920. Ibid Ibid Ibid	1406
		24 hr	Dresel, Proc. Soc. Exp. Biol. Med. 79:286, 1952. Reinhard, J. Pharm. Exp. Ther. 106:144, 1952. Dresel, Proc. Soc. Exp. Biol. Med. 79:286, 1952. Berger, J. Pharm. Exp. Ther. 93:362, 1948.	1407
	Gacacia Oil	5 hr 2 da 8 hr 1 hr	Rimini, Arch. farm. terap. 14:293, 1908. Power, Am. J. Pharm. 80:563, 1909. Rimini, Arch. farm. terap. 14:293, 1908. Ibid	1408
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954. Ibid Ibid Ibid	1409
			Smith, J. Pharm. Exp. Ther. 109:159, 1953.	1410
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	1411
			Maximowitch, C. rend. Acad. sc. 106:1411, 1888. Ibid Lesage, C. rend. Soc. biol. 56:852, 853, 1904. Neisser, Zbl. med. Wiss. 19:545, 1881.	1412
	Alcohol		Willens, Therap. Monatsch. 2:20, 67, 116, 1888. Risi, Arch. exp. Path. Pharm. 186:195, 1937. Ibid Bouchard, C. rend. Soc. biol. 105:702, 1897. Maximowitch, C. rend. Acad. sc. 106:1441, 1888. Ibid Bouchard, C. rend. Soc. biol. 105:702, 1897. Lesage, C. rend. Soc. biol. 56:852, 853, 1904.	1413
			Pitini, Arch. Ital. biol. 29:132, 1898. Ibid	1414
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	1415
		10 da	Nickerson, J. Pharm. Exp. Ther. 101:379, 1951.	1416
			Chopra, Ind. J. M. Res. 18:55, 1930. Dromond, Acta pharm. tox. 6:234, 1950. Ibid	1417

103% error. /6/ Suspension in gum acacia solution. /7/ 1 1/2 months old. /8/ 2-4 months old.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1417 Narcotine (concluded)	Rat ¹	ip	LD ₅₀	750
	Cat	or	MLD	2000
	Cat	sc	MLD	1500-2000
	Cat	iv ²	LD	40
	Cat	iv ³	LD	70
1418 Neoantergan HCl	Mouse	sc	LD ₅₀	150
	Mouse	ip	LD ₅₀	90±6.9 ⁴
	Mouse	ip	LD ₅₀	115
	Mouse	iv	LD ₅₀	30
	Rat	sc	LD ₅₀	150
	Guinea pig	sc	LD ₅₀	70
1419 Neosarsphenamine	Mouse	iv	MLD	250
	Rat	iv	LD ₅₀	280-520
	Rat	iv	LD ₁₀₀	400 ⁵
	Rabbit	iv	MLD	250-300
1420 Neodymium chloride	Frog	sc	LD	250
	Mouse	sc	LD ₅₀	4000
	Guinea pig	iv	LD	70
	Rabbit	iv	LD ₅₀	200-250 ⁶
1421 Neogermitrine	Mouse	ip	LD ₅₀	0.51
1422 Neohetramine HCl	Mouse	or	LD ₅₀	245 ⁷
	Mouse	ip	LD ₅₀	119 ⁸
	Guinea pig	or	LD ₅₀	493 ⁹
1423 Neomycin sulfate	Mouse	or	LD ₅₀	>865,000 ¹⁰
	Mouse	sc	LD ₅₀	36,000 ¹⁰
	Mouse	ip	LD ₅₀	15,000 ¹⁰
	Mouse	iv	LD ₅₀	4450 ¹⁰
	Rat	or	LD ₅₀	>865,000 ¹⁰
	Rat	sc	LD ₅₀	92,000 ¹⁰
1424 Neonol	Rat	sc	MLD	190
	Rat	ip	MLD	135
	Rabbit	or	MLD	160
	Rabbit	ip	MLD	115
1425 Neostigmine	Mouse	or	LD ₅₀	7.5±1.4
	Mouse	sc	LD ₅₀	0.42±0.07
	Mouse	iv	LD ₅₀	0.16±0.03
	Rat	sc	LD ₅₀	0.37
	Rat	iv	LD ₅₀	0.165
	Rabbit	sc	MLD	12.5
	Dog	sc	MLD	13.5
	Dog	iv	LD	20
1426 Neostigmine methylsulfate	Mouse	or	LD ₅₀	14.4
	Mouse	sc	LD ₅₀	0.6±0.08
	Mouse	iv	LD ₅₀	0.36±0.02
	Rabbit	im	LD ₅₀	0.31±0.034
1427 Neo-synephrine	Mouse	sc	LD	1000

¹/1/Mature animals. ²/2/Rapid injection. ³/3/Slow injection. ⁴/4/ 93-107% error. ⁵/5/Freshly
⁶/6/ 96-105% error. ⁷/7/ 73-139% error. ⁸/8/Units. ⁹/9/Emulsion.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		2 hr	Dromond, Acta. pharm. tox. 6:234, 1950. Chopra, Ind. J. Med. Res. 18:35, 1930. Ibid Cooper, J. Pharm. Exp. Ther. 51:411, 1934. Ibid	1417
		48 hr	Loew, Physiol. Rev. 27:542, 1947. Sherrod, J. Pharm. Exp. Ther. 89:247, 1947. Castillo, J. Pharm. Exp. Ther. 95:388, 1949. Loew, Physiol. Rev. 27:542, 1947. Halpern, C. rend. Soc. biol. 144:687, 1950. Loew, Physiol. Rev. 27:542, 1947.	1418
			Flury, Abderhalden's Hdb. 4.7b:1309. Sampson, J. Am. Pharm. Assoc. 25:1106, 1936. Schamberg, Am. J. Synp. Neurol. 18:37, 1934. Flury, Abderhalden's Hdb. 4.7b:1309.	1419
	H ₂ O	Instant	Guidi, Arch. int. pharmacod. 37:305, 1930. Vincke, Arch. exp. Path. Pharm. 188:465, 1938. Guidi, Arch. int. pharmacod. 37:305, 1930. Vincke, Arch. exp. Path. Pharm. 188:465, 1938.	1420
0.41-0.63			Swiss, Proc. Soc. Exp. Biol. Med. 76:847, 1951.	1421
			Reinhard, Proc. Soc. Exp. Biol. Med. 66:512, 1947. Ibid Ibid	1422
	H ₂ O ¹¹		Spencer, Fed. Proc. 9:317, 1950. Ibid Ibid Ibid Ibid	1423
			Nielson, J. Pharm. Exp. Ther. 26:371, 1926. Fitch, J. Pharm. Exp. Ther. 44:325, 1932. Ibid Ibid	1424
0.346-0.396 0.152-0.179		40 min 3 hr	Randall, J. Pharm. Exp. Ther. 99:16, 1950. Ibid Ibid Haley, J. Am. Pharm. Assoc. 39:12, 1950. Ibid Heathcote, J. Pharm. Exp. Ther. 46:375, 1932. Ibid Polonowski, C. rend. Acad. sc. 181:687, 1925.	1425
			Brown, Arch. int. pharmacod. 81:276, 1950. Ibid Ibid Ibid	1426
			Kuschinsky, Arch. exp. Path. Pharm. 162:46, 1931.	1427

prepared. /5/ 1% solution in H₂O injected at rate of 4 cc per minute. /7/ 91-110% error.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1428	Neriin	Frog	sc	LD	20-50
		Mouse	sc	LD	95
		Dog	iv	LD	0.85
1429	Neurine	Mouse	sc	LD	46
		Rabbit	or	LD	90
		Rabbit	sc	LD	40-50
		Dog	sc	LD	40-50
1430	Neutral Red	Mouse	iv	LD ₅₀	141.62
		Rat	iv	LD ₅₀	112.42
		Rabbit	iv	LD ₅₀	96.6
1431	Nickel chloride, NiCl ₂ .6H ₂ O	Frog	sc	LD	150-200
		Dog	iv	LD	40-80
1432	Nickel sulfate, NiSO ₄ .6H ₂ O	Guinea pig	sc	LD	62
		Rabbit	sc	LD	500-1000
		Dog	sc	LD	500-1000
1433	Nicotinaldehyde thiosemicarbazone	Mouse	or	LD ₅₀	340
1434	Nicotinamide	Rat	sc	LD ₅₀	1680
1435	Nicotinamide methochloride	Rat	sc	LD ₅₀	2400
1436	Nicotine	Mouse	or	MLD	24
		Mouse	sc	MLD	16
		Mouse	iv	MLD	0.8
		Mouse	iv	LD ₅₀	7.1
		Rat	sc	LD ₅₀	33.5
		Rat	iv	MLD	1
		Guinea pig ¹	sc	MLD	15
		Guinea pig ²	sc	MLD	40
		Guinea pig	iv	MLD	4.5
		Rabbit	ct	LD	50-60
		Rabbit	sc	LD	20
		Rabbit	iv	MLD	30-45
		Rabbit	iv	LD ₅₀	9.4
		Dog	iv	LD ₅₀	5
		Dog	iv	LD	3
		Pigeon	sc	LD	4.58
1437	Nicotine (base)	Frog	sc	LD	40
		Rat	or	LD ₅₀ *	50-60
		Rat	sc	LD	50-60
		Rabbit	ct	LD ₅₀	50
		Cat	iv	LD	6.1
1438	α-Nicotine	Frog	sc	LD	600
		Rat	sc	LD	320-640
		Cat	iv	LD	6.1
1439	β-Nicotine HCl	Rat	ip	MLD	23.5
		Guinea pig	ip	MLD	33

/1/ Small animals. /2/ Large animals.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Lendle, Heffter's Hdb. <u>E.1:78.</u> Ibid Ibid	1428
			Hunt, J. Pharm. Exp. Ther. <u>28:367, 1926.</u> Flury, Abderhalden's Hdb. <u>4.7b:1372.</u> Ibid Ibid	1429
			Stolarsky, Fed. Proc. <u>10:337, 1951.</u> Ibid Ibid	1430
			Flury, Abderhalden's Hdb. <u>4.7b:1373.</u> Caujolle, J. pharm. chim. <u>29:391, 1939.</u>	1431
			Hendrych, Heffter's Hdb. <u>3.2:1446.</u> Ibid Ibid	1432
			Grunberg, Proc. Soc. Exp. Biol. Med. <u>77:47, 1951.</u>	1433
			Brazda, Proc. Soc. Exp. Biol. Med. <u>62:19, 1946.</u>	1434
			Brazda, Proc. Soc. Exp. Biol. Med. <u>62:19, 1946.</u>	1435
			Heubner, Arch. exp. Path. Pharm. <u>188:605, 1938.</u> Ibid Chen, Proc. Soc. Exp. Biol. Med. <u>38:241, 1938.</u> Larson, J. Pharm. Exp. Ther. <u>95:506, 1949.</u> Behrend, J. Pharm. Exp. Ther. <u>48:317, 1933.</u> Chen, Proc. Soc. Exp. Biol. Med. <u>38:241, 1938.</u> Hatcher, Am. J. Physiol. <u>11:17, 1904.</u> Ibid Chen, Proc. Soc. Exp. Biol. Med. <u>38:241, 1938.</u> Div. Pharm. F. & D. Adm. Q. Rpt. 7, March 1948. Hatcher, Am. J. Physiol. <u>11:17, 1904.</u> Flury, Abderhalden's Hdb. <u>4.7b:1374.</u> Larson, J. Pharm. Exp. Ther. <u>95:506, 1949.</u> Ibid Franke, Proc. Soc. Exp. Biol. Med. <u>29:1177, 1932.</u> Flury, Abderhalden's Hdb. <u>4.7b:1374.</u>	1436
		Prompt	Oosterhuis, Rec. Trav. Chim. Pays-Bas <u>55:729, 1936.</u> Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122, 1951.</u> Oosterhuis, Rec. Trav. Chim. Pays-Bas <u>55:729, 1936.</u> Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122, 1951.</u> Macht, J. Pharm. Exp. Ther. <u>50:93, 1934.</u>	1437
			Oosterhuis, Rec. Trav. Chim. Pays-Bas <u>55:729, 1936.</u> Ibid Macht, J. Pharm. Exp. Ther. <u>50:93, 1934.</u>	1438
			Hicks, Austral. J. Exp. Biol. <u>25:83, 1947.</u> Ibid	1439

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1440	L-Nicotine HCl	Mouse	ip	MLD	10
		Rat	ip	MLD	20-23.5
		Guinea pig	ip	MLD	32
		Rabbit	iv	MLD	6.5
1441	Nicotinic acid, sodium salt	Mouse	iv	MLD	4500
		Rat	or	LD ₅₀	7000
		Rat	sc	LD ₅₀	5000
		Rat	sc	LD ₅₀	5000
		Rat	iv	MLD	3500
		Guinea pig	iv	MLD	3500
1442	Nisentil HCl	Mouse	sc	LD ₅₀	98
		Mouse	sc	LD ₅₀	115±31
		Mouse	ip	LD ₅₀	73
		Mouse	ip	LD ₅₀	95±12
		Mouse	iv	LD ₅₀	54
		Mouse	iv	LD ₅₀	32±5
		Rat	sc	LD ₅₀	23
		Rat	sc	LD ₅₀	50±8
		Rat	ip	LD ₅₀	22
		Rabbit	iv	LD ₅₀	18.5
		Rabbit	iv	LD ₅₀	22
1443	Nitrobenzene	Mouse	ct	MLD	480
		Rat	sc	LD	800 ¹
		Rat	ip	LD	500 ¹
		Guinea pig	sc	LD	800 ¹
		Guinea pig	ip	LD	500
		Rabbit	or	LD	600-720
		Rabbit	ct	LD	2500
		Rabbit	ct	LD	10,000
		Rabbit	sc	LD	600
		Dog	or	LD	750-1000
		Dog	iv	LD	150-250
1444	Nitrocholine	Mouse	sc	LD	210
1445	2-Nitro-2-ethyl-1,3-propandiol- butyraldehyde acetal	Mouse	or	LD ₅₀	3.1 cc
		Rat	or	LD ₅₀	1.95 cc
1446	Nitroglycerol	Frog	sc	MLD	475
		Rat	or	MLD	80-100
		Rat	im	MLD	150-400
		Rabbit	sc	LD ₁₀₀	500 ²
		Rabbit	im	MLD	400-500
		Rabbit	iv	MLD	45 ³
		Cat	sc	LD ₁₀₀	200 ²
1447	Nitroglycol (Mono-)	Rabbit	sc	LD	300
		Cat	sc	LD	100
1448	Nitromethane	Dog	sc	LD	569-1138

/1/ Emulsion in gum arabic solution. /2/ Technical grade. /3/ 10% solution in alcohol.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Larson, J. Pharm. Exp. Ther. 77:343, 1943. Hicks, Austral. J. Exp. Biol. 25:63, 1947. Ibid Larson, J. Pharm. Exp. Ther. 77:343, 1943.	1440
		Prompt	Chen, Proc. Soc. Exp. Biol. Med. 38:241, 1938. Unna, J. Pharm. Exp. Ther. 73:85, 1941. Ibid Brazda, Proc. Soc. Exp. Biol. Med. 62:19, 1946. Chen, Proc. Soc. Exp. Biol. Med. 38:241, 1938. Ibid	1441
			Gruber, J. Pharm. Exp. Ther. 99:312, 1950. Randall, J. Pharm. Exp. Ther. 93:314, 1948. Gruber, J. Pharm. Exp. Ther. 99:312, 1950. Randall, J. Pharm. Exp. Ther. 93:314, 1948. Gruber, J. Pharm. Exp. Ther. 99:312, 1950. Randall, J. Pharm. Exp. Ther. 93:314, 1948. Gruber, J. Pharm. Exp. Ther. 99:312, 1950. Randall, J. Pharm. Exp. Ther. 93:314, 1948. Gruber, J. Pharm. Exp. Ther. 99:312, 1950. Ibid Randall, J. Pharm. Exp. Ther. 93:314, 1948.	1442
	Garabic Garabic Garabic	8½ hr 4½ hr 52 hr	Shimkin, Proc. Soc. Exp. Biol. Med. 42:844, 1939. Ellinger, Heffter's Hdb. 1:1034. Ibid Flury, Abderhalden's Hdb. 4.7b:1375. Ibid Ibid Ibid Ibid Ibid Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892. Ibid	1443
			Hunt, J. Pharm. Exp. Ther. 25:315, 1925.	1444
			Div. Pharm. F. & D. Adm. Q. Rpt. 4, June 1946. Ibid	1445
	Alcohol		Orestano, Arch. ital. farm. 6:153, 1937. Ibid Ibid Gross, Arch. exp. Path. Pharm. 200:271, 1942. Orestano, Arch. ital. farm. 6:153, 1937. Oltman, J. Pharm. Exp. Ther. 41:121, 1931. Gross, Arch. exp. Path. Pharm. 200:271, 1942.	1446
			Gross, Arch. exp. Path. Pharm. 200:271, 1952. Ibid	1447
		24 hr	Gibbs, Am. Chem. J. 13:361, 1891.	1448

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1449	2-Nitro-2-methyl-1,3-propandiol	Mouse	or	LD ₅₀	6.3 cc
		Rat	or	LD ₅₀	4.0 cc
1450	2-Nitro-2-methyl-1,3-propandiol- butyraldehyde acetal	Mouse	or	LD ₅₀	5.4 cc
1451	m-Nitrophenol	Dog	iv	MLD	83
1452	o-Nitrophenol	Frog	sc	LD	300
		Mouse	im	LD	600
		Rabbit	sc	LD	1700
		Cat	sc	LD	600
		Dog	iv	LD	100
1453	p-Nitrophenol	Frog	sc	MLD	50
		Rabbit	sc	MLD	600
		Cat	sc	MLD	197
		Dog	iv	LD	10
1454	p-Nitrophenyldimethylthionophosphate	Rat	or	LD ₅₀ *	12.7
		Rat	ip	LD ₅₀ *	3.5
1455	Noctal	Rat	sc	LD ₅₀	90
		Rat	sc	MLD	90-160
		Rat	ip	LD	60
		Rabbit	or	MLD	300-350
		Rabbit	or	MLD	255
		Rabbit	ip	LD	120
1456	n-Nonyltrimethylammonium iodide	Mouse	ip	LD ₅₀	46
1457	D-Nornicotine	Rat	ip	MLD	6
		Guinea pig	ip	MLD	10
1458	D,L-Nornicotine	Rat	ip	MLD	10.5
1459	L-Nornicotine	Mouse	ip	LD	22
		Rat	ip	MLD	23.5
		Guinea pig	ip	MLD	28
		Rabbit	iv	LD	3
1460	Numal	Rat	sc	LD ₅₀	100
		Rat	sc	MLD	100-175
1461	Nupercaine	Frog	sc	MLD	55-60
		Mouse	sc	MLD	70
		Guinea pig	sc	MLD	11.2
		Guinea pig	iv	MLD	3-4
		Rabbit	sc	MLD	5-35
		Rabbit	sc	LD	8.5
		Rabbit	iv	LD ₅₀	2.5
		Rabbit	iv	MLD	2.4-4.5
		Dog	sc	MLD*	25
		Dog	iv	MLD	2.5-3.0 ¹
1462	Nydrazide (see also Isonicotinyl hydrazide)	Mouse	or	LD ₅₀	190±6
		Mouse	sc	LD ₅₀	170±5
		Mouse	iv	LD ₅₀	165±4
		Dog	iv	LD ₅₀ *	50

/1/ 1% solution.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Draize, J. Pharm. Exp. Ther. <u>93:26</u> , 1948. Ibid	1449
	Corn oil		Div. Pharm. F. & D. Adm. Q. Rpt. 2, Dec. 1946.	1450
			Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892.	1451
			Levy, Dissert., Würzburg 1902. Beutner, Proc. Pharm. Soc. 1941. Levy, Dissert., Würzburg 1902. Ibid Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892.	1452
			Levy, Dissert., Würzburg, 1902. Ibid Ibid Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892.	1453
			DuBois, Fed. Proc. <u>9:269</u> , 1950. DuBois, Arch. Ind. Hyg. Occ. Med. <u>6:9</u> , 1952.	1454
			Vogt, Arch. exp. Path. Pharm. <u>152:341</u> , 1930. Gros, Arch. exp. Path. Pharm. <u>182:348</u> , 1936. Fitch, J. Pharm. Exp. Ther. <u>44:325</u> , 1932. Maloney, J. Pharm. Exp. Ther. <u>42:267</u> , 1931. Schlossman, Meffter's Hdb. <u>E. 2:149</u> . Ibid	1455
			Alles, Univ. Cal. Publ. Pharmacol. <u>1:187</u> , 1939	1456
			Hicks, Austral. J. Exp. Biol. <u>25:83</u> , 1947. Ibid	1457
			Hicks, Austral. J. Exp. Biol. <u>25:83</u> , 1947.	1458
			Larson, J. Pharm. Exp. Ther. <u>77:343</u> , 1943. Hicks, Austral. J. Exp. Biol. <u>25:83</u> , 1947. Ibid Larson, J. Pharm. Exp. Ther. <u>77:343</u> , 1943.	1459
			Vogt, Arch. exp. Path. Pharm. <u>152:341</u> , 1930. Gros, Arch. exp. Path. Pharm. <u>182:348</u> , 1936.	1460
	N saline	4-5 hr 1 hr	Fühner, Arch. exp. Path. Pharm. <u>166:437</u> , 1932. Ibid Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Uhlmann, Arch. int. pharmacod. <u>36:253</u> , 1929. Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Wahl, Proc. Soc. Exp. Biol. Med. <u>29:368</u> , 1932. Ibid Hirschfelder, Physiol. Rev. <u>12:262</u> , 1932. Bond, J. Lab. Clin. Med. <u>16:447</u> , 1931. Ibid	1461
			Rubin, Am. Rev. Tuberc. <u>65:392</u> , 1952. Ibid Ibid Ibid	1462

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1463 Hydrazid (see also Isonicotinyl hydrazide)	Mouse	or	LD ₅₀	190±6
	Mouse	sc	LD ₅₀	170±5
	Mouse	iv	LD ₅₀	165±4
	Dog	iv	LD ₅₀ *	50
1464 Octare-1,8-diamine 2HCl	Mouse	ip	LD ₅₀	3.5
1465 Octin	Mouse	sc	LD ₅₀	171 ¹
	Mouse	sc	MLD	100
	Mouse	iv	LD ₅₀	17.5 ¹
	Rabbit	sc	LD ₅₀	101 ¹
	Rabbit	iv	LD ₅₀	17.6 ¹
	Dog	or	LD ₅₀	146 ²
	Dog	sc	LD ₅₀	76.3 ¹
	Dog	iv	LD ₅₀	25.8 ¹
1466 Octyl thiocyanate	Mouse	sc	MLD	730
	Rat	sc	MLD	500
	Cat	or	LD	264
1467 n-Octyltrimethylammonium iodide	Mouse	ip	LD ₅₀	60
1468 Odorobioside G monoacetate	Cat	iv	LD ₅₀	0.6705
1469 Odorobioside K	Cat	iv	LD ₅₀	2.29
1470 Odorobioside D	Cat	iv	LD ₅₀	0.594
1471 Odorobioside H monoacetate	Cat	iv	LD ₅₀	0.2732
1472 Odorobioside K	Cat	iv	LD ₅₀	4.735
1473 Odorobioside G monoacetate	Cat	iv	LD ₅₀	0.6222
1474 Oleandrin	Frog	sc	LD	2.25
1475 Oleylpolyoxethylene glycol ether	Rat	ip	LD ₅₀	235
1476 OMPA	Mouse	or	LD ₅₀	30.0±3.1
	Mouse	ip	LD ₅₀	17
	Mouse	ip	LD ₅₀	8
	Rat	or	LD ₅₀ *	13.5
	Rat?	or	LD ₅₀	35.5±1.4
	Rat	or	LD ₅₀	13.5±0.34
	Rat	ip	LD ₅₀	8-8.5
	Guinea pig	or	LD ₅₀	15.0±0.88
	Guinea pig	ip	LD ₅₀	10
	Rabbit	ct	LD ₅₀	<750 ³
	Dog	iv	LD ₅₀	5-10
1477 Onyxide	Rat	or	LD ₅₀	500
	Guinea pig	or	LD ₅₀	158
1478 Optochin	Frog	sc	MLD	350
	Mouse	sc	LD	5000
1479 Ortol sodium	Rat	ip	LD ₅₀	240-250
1480 Orthotran	Rat	or	LD ₅₀	2000

/1/ Hydrochloride. /2/ Mucate. /3/ 20% solution in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Report from Squibb & Sons. Ibid Ibid Ibid	1463
			Alles, J. Pharm. Exp. Ther. 107:332, 1953.	1464
			Walton, J. Pharm. Exp. Ther. 92:214, 1948. Fiegenbaum, Dissert., Münster. Walton, J. Pharm. Exp. Ther. 92:214, 1948. Ibid Ibid Ibid Ibid	1465
		1 1/3-16 hr 4-72 hr 15 hr	Von Oettingen, J. Ind. Hyg. Tox. 18:310, 1936. Ibid Ibid	1466
			Alles, Univ. Cal. Publ. Pharmacol. 1:187, 1939.	1467
0.3414-1.154	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1468
1.465-3.322	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1469
0.4064-1.1433	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1470
0.1949-0.3564	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1471
3.149-9.340	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1472
0.4745-0.8036	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1473
			Lendle, Heffter's Hdb. E. 1:78.	1474
			Sweeney, J. Am. Pharm. Assoc. 42:556, 1953.	1475
	H ₂ O		Frawley, J. Pharm. Exp. Ther. 105:156, 1952. DuBois, J. Pharm. Exp. Ther. 99:376, 1950. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Frawley, J. Pharm. Exp. Ther. 105:156, 1952. Ibid DuBois, J. Pharm. Exp. Ther. 99:376, 1950. Frawley, J. Pharm. Exp. Ther. 105:156, 1952. DuBois, J. Pharm. Exp. Ther. 99:376, 1950. Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952. DuBois, J. Pharm. Exp. Ther. 99:376, 1950.	1476
			Lehman, Q. Bull. Assoc. F. & D. Off. 18:43, 1954. Ibid	1477
			Smith, J. Pharm. Exp. Ther. 8:53, 1916 Ibid	1478
	H ₂ O		Gruber, J. Pharm. Exp. Ther. 60:439, 1937.	1479
			Lehman, personal communication.	1480

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1481	Oxalic acid	Frog Dog	sc or	MLD LD	400 1000
1482	Oxathiane	Rat	or	LD ₅₀	2830
1483	α-(p-Oxyphenyl)-β-methylaminopropane	Mouse	ip	MLD	100
1484	Palladium chloride	Rabbit	iv	LD	18.6
1485	Paludrine HCl	Mouse Mouse Rat Dog Monkey	or im or im im	LD ₅₀ LD ₅₀ * LD ₅₀ * LD LD	23 20 200 160 160
1486	Panthesin	Frog Mouse Guinea pig Guinea pig Rabbit Rabbit	sc sc sc iv sc iv	LD LD LD LD LD LD	480-840 300-350 93-150 20 240-250 20
1487	Pantocaine	Frog Mouse Mouse Mouse Rabbit Rabbit	sc sc sc iv sc iv	LD LD LD LD LD LD	200 53 45-50 10-12 20 6-8
1488	Pantothenic acid (calcium salt)	Mouse Mouse Mouse Mouse Rat Rat Rat Rat	or sc ip iv or sc ip iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	10,000 2700 920 910 >10,000 3400 820 830
1489	Papaverine	Frog Mouse Mouse Mouse Rat Rat Rabbit Pigeon	sc or sc iv or ip sc sc	MLD LD ₅₀ MLD LD ₅₀ LD ₅₀ LD ₅₀ MLD MLD	1000 2500 500 33.1 ³ 745.6 62-64 250 150
1490	Papaverine-3-carboxylic acid	Mouse Mouse Mouse	or sc iv	LD ₅₀ LD ₅₀ LD ₅₀	50-260 225 200
1491	Paraldehyde	Rat Rat Rat Rat Rat	or sc ip ip rt	LD ₅₀ MLD MLD MLD MLD	1650 1650 1500 1240-1780 1500

/1/ Buffered water. /2/ Leupold-Lowenthal. /3/ Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		2 da	Heymans, Dubois' Arch. f. Physiol. 13:168, 1889. Flury, Abderhalden's Hdb. 4.7b:1377.	1481
			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 195..	1482
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1483
	H ₂ O ¹	12 da	Orestano, Boll. soc. ital. biol. sper. 8:1154, 1933.	1484
			Schmidt, J. Pharm. Exp. Ther. 90:233, 1947. Ibid Ibid Ibid	1485
			Röthlin, Arch. exp. Path. Pharm. 144:197, 1929. Ibid Ibid Ibid Ibid	1486
			Gessner, Arch. exp. Path. Pharm. 168:447, 1932. Ibid Fusgänger, Arch. exp. Path. Pharm. 160:53, 1931. Ibid Ibid Ibid	1487
			Unna, Proc. Soc. Exp. Biol. Med. 45:311, 1940. Ibid Ibid Ibid Unna, J. Pharm. Exp. Ther. 73:85, 1941. Unna, Proc. Soc. Exp. Biol. Med. 45:311, 1940. Ibid Unna, J. Pharm. Exp. Ther. 73:85, 1941.	1488
		30 min	Macht, Arch. Int. Med. 17:786, 1916. Löwenthal, ² Wien med. Wochr. 101:61, 1951. Macht, Arch. Int. Med. 17:786, 1916. Henderson, J. Am. Pharm. Assoc. 40:207, 1951. Ibid Dromond, Acta pharm. tox. 6:234, 1950. Flury, Abderhalden's Hdb. 4.7b:1377. Ibid	1489
			Kewitz, Arch. exp. Path. Pharm. 213:30, 1951. Ibid Ibid	1490
1470-1850			Figot, Acta pharm. tox. 8:290, 1952. Tunger, Arch. exp. Path. Pharm. 160:74, 1931. Ibid	1491
1470-1850			Phillips, Anesthesiology 5:287, 1944. Tunger, Arch. exp. Path. Pharm. 160:74, 1931.	

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1491 Paraldehyde (concluded)	Guinea pig Rabbit Rabbit Dog	ip or iv or	LD ₅₀ LD LD LD	1160-1290 5000 1325 3000-4000
1492 Paraoxone	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	7.8 10
1493 Parasorbic acid	Mouse	ip	LD ₅₀	750
1494 Parathion	Mouse Mouse Rat Rat Rat Rat Rat Rat Guinea pig Rabbit Rabbit Cat Dog	or ip or cr or or ip ip or ct ct ip ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	25±1.8 5.5 4.42 4.03 3.0±0.25 30.0±3.6 7 4 32±2 870 ¹ 420 3-5 12-20
1495 Paris green	Frog Rat Rat Guinea pig	sc or or or	MLD LD ^a MLD LD	10 22 300 30
1496 Parpanit	Mouse Mouse Rat Rabbit Cat	ip iv ip iv or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD	222.3 45.1 209 24.5 390
1497 Parsidol (base)	Mouse Mouse Mouse Rat Rat	or sc iv sc iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	650 450 45-50 200-250 15
1498 Patulin	Mouse	ip	LD ₅₀	5
1499 Paulioside	Cat	iv	LD ₅₀	0.1136
1500 PDDB	Mouse Rat Rat Guinea pig Rabbit	iv ip iv ip iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	31 40-45 18 10-20 11-15
1501 Pelletierine	Frog Rabbit	sc iv	LD LD	>3125 12-40
1502 Pellotine	Rabbit Rabbit	sc iv	LD LD	90-100 60
1503 α-Peltatin	Mouse	sc	LD ₅₀	60.3±4.3

/1/ Undiluted.

Dosage mg/kg range	Vehicle	Time of Death	Reference	
	H ₂ O		Phillips, Anesthesiology <u>5</u> :182, 1944. Flury, Abderhalden's Hdb. <u>4</u> :7b:1378 Ibid Ibid	1491
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951. Ibid, <u>16</u> :3, 1952.	1492
			Brodersen, Acta pharm. tox. <u>2</u> :109, 1946.	1493
	Corn oil Corn oil		Frawley, J. Pharm. Exp. Ther. <u>105</u> :156, 1952. DuBois, Arch. Ind. Hyg. Occ. Med. <u>6</u> :9, 1952. Deichmann, Arch. Ind. Hyg. Occ. Med. <u>5</u> :44, 1952. Ibid Frawley, J. Pharm. Exp. Ther. <u>105</u> :156, 1952. Ibid DuBois, J. Pharm. Exp. Ther. <u>95</u> :79, 1949. Ibid Frawley, J. Pharm. Exp. Ther. <u>105</u> :156, 1952. Deichmann, Arch. Ind. Hyg. Occ. Med. <u>5</u> :44, 1952. Ibid DuBois, J. Pharm. Exp. Ther. <u>95</u> :79, 1949. Ibid	1494
	Corn oil			
		4-5 hr	Bonsmann, Klin. Wochr. <u>21</u> :304, 1942. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951. Bonsmann, Klin. Wochr. <u>21</u> :304, 1942. Ibid	1495
			Kraatz, J. Pharm. Exp. Ther. <u>96</u> :42, 1949. Ibid Ibid Ibid Ibid	1496
			Fournel, J. physiol., Par. <u>42</u> :877, 1950. Ibid Ibid Ibid Ibid	1497
			Brodersen, Acta pharm. tox. <u>2</u> :109, 1946.	1498
0.4147-1.168	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1499
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>18</u> :43, 1954. Ibid Ibid Ibid Ibid	1500
			Flury, Abderhalden's Hdb. <u>4</u> :7b:1379. Ibid	1501
			Heffter, Arch. exp. Path. Pharm. <u>40</u> :385, 1898. Ibid	1502
		7 da	Beck, Proc. Soc. Exp. Biol. Med. <u>78</u> :392, 1951.	1503

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1504	Pendiomid	Mouse	or	LD ₅₀ [*]	2500
		Mouse	sc	LD ₅₀	225
		Mouse	iv	LD ₅₀	65
		Rabbit	or	LD ₅₀	3000
		Rabbit	sc	LD ₅₀	160
		Rabbit	iv	LD ₅₀	75
1505	Penicillic acid	Mouse	ip	LD ₅₀	300
1506	Penicillin ¹	Mouse	sc	LD	3200
		Mouse	sc	LD ₅₀	1777 ²
		Mouse	sc	LD ₅₀	670 ³
		Mouse	iv	LD ₅₀	1000 ⁴
		Mouse	iv	LD	1500 ⁵
		Mouse	ice ⁶	LD ₅₀	5.7±0.23
		Rabbit	ic ⁷	LD ₅₀	0.653±0.069
		Dog	ic ⁷	LD ₅₀	1.118±0.112
		Dog	il ⁸	LD ₅₀	4.94±0.27
1507	Pentabromophenol	Rat	or	LD ₅₀ [*]	200
1508	Pentachloroethane	Rabbit	sc	MLD	700
		Dog	or	MLD	1750
		Dog	iv	MLD	100
1509	Penta-chlorophenol	Mouse	sc	MLD	56
		Rat	or	LD ₅₀ [*]	78
		Rat	or	LD ₅₀	125-200
		Rabbit	or	MLD	550
		Rabbit	or	LD	7090 ⁹
		Rabbit	or	LD	160-130 ¹⁰
		Rabbit	or	LD	70-85 ¹¹
		Rabbit	sc	MLD	257
		Rabbit	ct	MLD	512.5
		Rabbit	ct	LD	60-70 ⁹
		Rabbit	ct	LD	90-100 ¹²
		Rabbit	ct	LD	40-50 ¹³
		Rabbit	ip	MLD	135.5
		Dog	sc	MLD	135
1510	Pentamethylenedipropionate	Mouse	or	LD ₅₀	10.4 cc
		Rat	or	LD ₅₀	9.1 cc
1511	Pentenediol-2,4	Rat	or	LD ₅₀	6868
		Rabbit	ct	LD ₅₀	14.1 cc
1512	3-Pentanol	Rat	or	LD ₅₀	280C
		Rat	or	LD ₅₀	1870
		Rabbit	ct	LD ₅₀	2.52 cc

/1/ Toxicity may vary for different brands. /2/ Sodium salt. /3/ Ammonium salt. /4/ Per
/5/ Intralumbur. /9/ 5% solution in fuel oil. /10/ 11% solution in olive oil. /11/ 5% solu-

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Bein, Schweiz. med. Wschr. <u>81</u> :446, 1951. Ibid Ibid Ibid Ibid	1504
			Brodersen, Acta pharm. tox. <u>2</u> :169, 1946.	1505
	H ₂ O	1 da 2-5 da 1-4 da	Robinson, J. Pharm. Exp. Ther. <u>77</u> :70, 1943. Hobby, Proc. Soc. Exp. Biol. Med. <u>50</u> :285, 1942. Ibid Robinson, J. Pharm. Exp. Ther. <u>77</u> :70, 1943. Ibid Rose, J. Lab. Clin. Med. <u>34</u> :126, 1949. Ibid Ibid Ibid	1506
			Stohlman, Pub. Health Rpt. <u>66</u> :1303, 1951.	1507
	Oil Oil Oil	24 hr 24 hr 30 min	Barsoum, Q. J. Pharm. Pharmacol. <u>7</u> :205, 1934. Ibid Ibid	1508
	Oil Olive oil Olive oil Oil Oil Oil	2-5 hr 10-16 hr 3-6 hr 1 1/4-4 hr 1 1/2-3 hr 9-22 hr	Bechold, Zschr. physiol. Chem. <u>47</u> :173, 1906. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951. Stohlman, Pub. Health Rpt. <u>66</u> :1303, 1951. McGavack, J. Ind. Hyg. Tox. <u>23</u> :239, 1941. Deichmann, J. Pharm. Exp. Ther. <u>76</u> :No. 2, 1942. Ibid Ibid McGavack, J. Ind. Hyg. Tox. <u>23</u> :239, 1941. Ibid Deichmann, J. Pharm. Exp. Ther. <u>76</u> :No. 2, 1942. Ibid Ibid McGavack, J. Ind. Hyg. Tox. <u>23</u> :239, 1941. Ibid	1509
			Draize, J. Pharm. Exp. Ther. <u>93</u> :26, 1948. Ibid	1510
6290-7480			Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954. Ibid	1511
1340-2600 1.33-4.78 cc			Schaffarzick, Science <u>116</u> :663, 1952. Smyth, Arch. Ind. Hyg. Occ. Med. <u>10</u> :61, 1954. Ibid	1512

day of crude drug. /5/ Per day of pure drug. /6/ Intracerebral. /7/ Intracisternal.
tion in olive oil. /12/ 5% solution in "furnace" oil. /13/ 1.8% solution in pine oil.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1513	Pentabone-3	Rat	or	LD ₅₀	2140
1514	Pentobarbital sodium	Mouse	or	LD ₅₀	280.2±19.8
		Mouse	ip	LD ₅₀	140
		Mouse	ip	LD ₅₀	155
		Mouse	ip	LD ₅₀	123±17.3
		Mouse	ip	LD ₅₀	128.76±2.75
		Mouse	im	LD ₅₀	124.42±5.25
		Mouse	iv	LD ₅₀	80.46±4.71
		Rat	or	MLD	175
		Rat	sc	LD	125
		Rat	ip	LD	75
		Rat	ip	LD ₅₀	48-75
		Guinea pig	ip	LD ₅₀	50-60
		Rabbit	or	LD ₅₀	275
		Rabbit	or	MLD	175
		Rabbit	ip	MLD	65
		Rabbit	iv	LD ₅₀	45
		Rabbit	ic	LD ₅₀	65
		Cat	or	LD ₅₀ *	100
1515	Pentothal sodium	Rat ¹	ip	LD ₅₀	125-130
		Rat ²	ip	LD ₅₀	115-125
		Guinea pig ¹	ip	LD ₅₀	47.5-50.0
		Guinea pig ²	ip	LD ₅₀ *	57.5
		Rabbit	or	MLD	600
		Rabbit	rt	MLD	110
		Rabbit	iv	MLD	35
1516	Perillartine	Rat	or	LD ₅₀	>2500
1517	Periplocin	Frog	sc	LD	25
		Rat	sc	LD	320-480
		Rabbit	sc	LD	10
		Cat	sc	LD	2.5
1518	Pernoston	Frog	sc	LD	150
		Mouse	sc	LD	150
		Rat	sc	MLD	72-125
		Rat	ip	LD	65-66
		Rabbit	or	MLD	350-400
		Rabbit	sc	LD	175
		Rabbit	ip	MLD	75
		Rabbit	iv	LD	70
		Cat	or	LD ₅₀ *	135
1519	Phanodorn	Mouse	sc	LD	400
		Mouse	iv	LD	200
		Rat	sc	LD	220
		Rat	ip	LD	195
		Rabbit	or	LD	450
		Rabbit	sc	LD	300
		Rabbit	ip	LD	130
	(continued on next page)	Rabbit	iv	LD	90

/1/ Young animals. /2/ Adult animals.

Dose mg/kg	Vehicle	Time of Death	Reference	
Range				
1540-2980			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954.	1513
			Calesnick, J. Pharm. Exp. Ther. 102:138, 1951. Gruber, J. Pharm. Exp. Ther. 81:254, 1944. Hunt, J. Am. Pharm. Assoc. 35:231, 1946. Way, J. Pharm. Exp. Ther. 87:265, 1946. Calesnick, J. Pharm. Exp. Ther. 102:138, 1951. Ibid Ibid Fitch, J. Pharm. Exp. Ther. 42:266, 1931. Schlossmann, Heffter's Hdb. E. 2:152. Ibid Gruber, J. Pharm. Exp. Ther. 81:254, 1944. Carmichael, Proc. Soc. Exp. Biol. Med. 33:527, 1936. Werner, J. Pharm. Exp. Ther. 60:189, 1937. Fitch, J. Pharm. Exp. Ther. 42:266, 1931. Ibid Werner, J. Pharm. Exp. Ther. 60:189, 1937. Ibid Krop, J. Pharm. Exp. Ther. 88:260, 1946.	1514
			Carmichael, Anesthesiology 8:589, 1947. Ibid Ibid Ibid Werner, J. Pharm. Exp. Ther. 60:189, 1937. Ibid Ibid	1515
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:82, 1951.	1516
			Lendle, Heffter's Hdb. E. 1:78. Ibid Ibid Ibid	1517
			Kochmann, Heffter's Hdb. E. 2:149. Ibid Tunger, Arch. exp. Path. Pharm. 160:74, 1931. Kochmann, Heffter's Hdb. E. 2:149. Maloney, J. Pharm. Exp. Ther. 42:267, 1931. Kochmann, Heffter's Hdb. E. 2:149. Fitch, J. Pharm. Exp. Ther. 44:325, 1932. Kochmann, Heffter's Hdb. E. 2:149. Krop, J. Pharm. Exp. Ther. 88:260, 1946.	1518
			Kochmann, Heffter's Hdb. E. 2:151. Ibid Ibid Ibid Ibid Ibid Ibid	1519

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1519	Phanodorn (concluded)	Cat	or	LD	120-200
		Dog	or	LD	200-300
		Dog	sc	LD	100
1520	Phenacaine HCl	Guinea pig	sc	MLD	53
		Guinea pig	ip	MLD	50
		Guinea pig	iv	MLD	15
		Cat	iv	MLD	10
1521	Phenacetin	Rat	or	LD	2600
		Rat	or	LD ₅₀	1705
		Rabbit	or	MLD	>1000
		Dog	or	LD*	1000
1522	Phenergan HCl	Mouse	sc	LD ₅₀ *	750
		Rat	sc	LD ₅₀	225
		Rat	iv	LD ₅₀	50
1523	Phenetole	Rat	sc	MLD	3500-4000
1524	Phenol	Frog	sc	MLD	290-310
		Mouse	sc	MLD	125
		Mouse	sc	MLD	420-450
		Rat	or	LD ₅₀	530
		Rat	or	LD ₅₀	1300
		Rat	sc	LD	217
		Rat	sc	LD	500-600
		Guinea pig	sc	MLD	450-550
		Guinea pig	ip	MLD	300
		Rabbit	or	MLD	420-620 ¹
		Rabbit	sc	LD ₅₀	620 ²
		Rabbit	iv	LD ₅₀	180 ²
		Cat	sc	MLD	80 ³
1525	Phenothiazine	Rat	or	LD ₅₀ *	5000
		Rabbit	or	MLD	4000
1526	2-Phenoxyethyl acetate	Mouse	or	LD ₅₀	3.7 cc
		Rat	or	LD ₅₀	4.9 cc
1527	Phenoxylethylamine	Mouse	sc	LD ₅₀ *	1000
1528	Phenoxyethyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	35
1529	3-Phenoxy-1, 2-propanediol	Mouse	or	LD ₅₀	2.65±0.02 cc
1530	6-Phenoxypropylbenzyl-β-chloroethylamine	Mouse	sc	LD ₅₀ *	750
1531	Phenoxypropylethyl-β-chloroethylamine	Mouse	sc	LD ₅₀	50
1532	Phenurone	Mouse	or	LD ₅₀ *	5000
1533	(3-Phenylacetoxyphenyl)tri-methylammonium bromide	Mouse	iv	LD ₅₀	2.9±0.5
1534	Phenylacetyl-K-strophanthidin	Rabbit	iv	MLD	0.5

/1/ 20% solution in H₂O. /2/ 5% solution in H₂O. /3/ 10% solution in oil.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Kochmann, Heffter's Hdb. <u>E.2:151.</u> Ibid Ibid	1519
			Hirschfelder, Physiolo. Rev. <u>12:262, 1932.</u> Ibid Ibid Ibid	1520
			Hart, J. Pharm. Exp. Ther. <u>89:205, 1947.</u> Eagle, J. Pharm. Exp. Ther. <u>99:450, 1950.</u> Flury, Abderhalden's Hdb. <u>4.7b:1380.</u> Ibid	1521
			Halpern, C. rend. Soc. biol. <u>144:887, 1950.</u> Fournel, J. Physiol. <u>42:877, 1950.</u> Ibid	1522
			Binet, Rev. med. Suisse rom. <u>15:561, 1895.</u>	1523
	H ₂ O Oil	8ev hr	Fühner, Arch. exp. Path. Pharm. <u>166:437, 1932.</u> Duplay, C. rend. Acad. sc. <u>112:627, 1891.</u>	1524
		2-3 da	Fühner, Arch. exp. Path. Pharm. <u>166:437, 1932.</u> Deichmann, J. Pharm. Exp. Ther. <u>80:233, 1944.</u> Ibid Duplay, C. rend. Acad. sc. <u>112:627, 1891.</u> Binet, Rev. med. Suisse rom. <u>15:561, 1895.</u> Ibid	
		30-45 min	Chassevant, Arch. int. pharmaccd. <u>14:93, 1905.</u> Deichmann, J. Pharm. Exp. Ther. <u>80:233, 1944.</u> Ibid Ibid	
		317 hr	Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>45:122, 1951.</u> Schnitzer, Canad. Pub. Health. J. <u>33:17, 1942.</u>	1525
			Draize, J. Pharm. Exp. Ther. <u>93:26, 1948.</u> Ibid	1526
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379, 1951.</u>	1527
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379, 1951.</u>	1528
		10 da	Hine, Arch. Ind. Hyg. Occ. Med. <u>2:579, 1950.</u>	1529
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379, 1951.</u>	1530
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101:379, 1951.</u>	1531
			Everett, J. Pharm. Exp. Ther. <u>106:303, 1952.</u>	1532
			Randall, J. Pharm. Exp. Ther. <u>99:16, 1950.</u>	1533
			Neumann, Arch. exp. Path. Pharm. <u>185:328, 1937.</u>	

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1535	α -Phenyl- β -aminobutane	Rat	or	LD ₅₀	400
		Rat	ip	LD ₅₀	70
1536	α -Phenyl- β -aminobutanol	Rabbit	iv	LD ₅₀	50
1537	α -Phenyl- β -aminoethane	Rat	or	LD ₅₀	800
		Rat	ip	LD ₅₀	100
1538	α -Phenyl- β -aminopentane	Rat	or	LD ₅₀	400
		Rat	ip	LD ₅₀	70
1539	α -Phenyl- β -aminopentanol	Rabbit	iv	LD	40
1540	α -Phenyl- β -aminopropane	Mouse	ip	MLD	25
1541	β -Phenyl- α -aminopropane	Mouse	sc	LD	540
		Rat	or	LD ₅₀	>3000
		Rat	ip	LD ₅₀	150
		Rabbit	iv	LD	72
1542	DL-1-Phenylaminopropane sulfate	Rat	ip	LD ₅₀	25-35
		Guinea pig	ip	LD ₅₀	50-70
1543	Phenylarsenoxide	Mouse	ip	LD ₅₀	1.93
		Rabbit	ip	LD ₅₀	0.79
1544	α -Phenyl- β -benzylaminopropanol	Rabbit	iv	LD	20
1545	Phenylboric acid	Mouse	ip	LD	560
		Guinea pig	ip	LD	284
		Dog	iv ²	LD	450
1546	α -Phenylbutanolmethylamine	Rabbit	iv	LD	45
1547	Phenylbutazone	Mouse	iv	LD ₅₀	122
		Rat	ip	LD ₅₀	215
1548	α -Phenyl- β -butylaminopropane	Rat	or	LD ₅₀	390
		Rat	ip	LD ₅₀	130
1549	α -Phenyl- β -butylaminopropanol	Rabbit	iv	LD	15
1550	2-Phenylcyclohexanol	Mouse	or	LD ₅₀	5.4 cc
		Rat	or	LD ₅₀	3.5 cc
		Guinea pig	or	LD ₅₀	1.6 cc
		Rabbit	or	LD ₅₀	2.7 cc
1551	α -Phenyldiaminopropanol	Rabbit	iv	LD	55
1552	Phenyldichlorarsine	Rabbit	ct	MLD	8-10
1553	Phenyldiethylaminoethyl- α -aminoacetic acid isoamyl ester	Mouse	or	LD ₅₀	760
		Mouse	im	LD ₅₀	360
		Mouse	iv ³	LD ₅₀	40
1554	Phenyldiethylmethylammonium bromide	Mouse	iv	LD ₅₀	19.0±7.6
1555	α -Phenyl- β -dimethylaminopropane	Rat	or	LD ₅₀	750
		Rat	ip	LD ₅₀	180

/1/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York:

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Bovet & Bovet-Nitti. ¹ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1535
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1536
			Bovet & Bovet-Nitti. ¹ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1537
			Bovet & Bovet-Nitti. ¹ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1538
			Hartung, J. Am. Chem. Soc. 52:3317, 1930.	1539
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1540
			Bovet & Bovet-Nitti. ¹ Ibid Hauschild, Arch. exp. Path. Pharm. 195:647, 1940. Bovet & Bovet-Nitti. ¹	1541
			Fellows, J. Pharm. Exp. Ther. 100:267, 1950. ibid	1542
			Eagle, J. Pharm. Exp. Ther. 81:142, 1944. Ibid	1543
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1544
			Caujolle, Bull. Acad. med., Par. 135:314, 1951. Ibid Ibid	1545
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1546
		48 hr 48 hr	Hazleton, Fed. Proc. 12:330, 1953. Ibid	1547
			Bovet & Bovet-Nitti. ¹ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1548
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1549
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid Ibid Ibid	1550
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1551
			Dudley, Pub. Health. Rpt. 53:338, 1938.	1552
			Brock, Arch. exp. Path. Pharm. 212:133, 1951. Ibid Ibid	1553
			Randall, J. Pharm. Exp. Ther. 99:16, 1950.	1554
			Bovet & Bovet-Nitti. ¹ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1555

S. Karger, 1948. /2/ Injected over period of 60 minutes. /3/ Given by slow injection.

	Compounds	Animal	Route	Dose	Dosage mg/kg
					Value
1556	m-Phenylenediamine	Rat Rabbit Rabbit Cat Dog	sc or sc or iv	MLD MLD MLD MLD MLD	80 300 200 300 17
1557	o-Phenylenediamine	Frog Mouse Mouse Rat	sc sc sc sc	MLD MLD MLD MLD	4000 250 ¹ 600 ² 600 ²
1558	p-Phenylenediamine	Rat Rabbit Rabbit Cat Dog	sc or sc or sc	MLD MLD MLD MLD MLD ¹	176 250 200 100 100
1559	Phenylethanamine	Mouse Rat Guinea pig Rabbit Rabbit	sc iv sc iv iv	LD MLD [*] MLD MLD LD	1100 140 1000 25-30 80
1560	α -Phenyl- β -ethanolaminopropanol	Rabbit	iv	LD	75
1561	Phenylethanolmethylamine	Rabbit	iv	LD	100
1562	Phenylethylamine	Mouse Guinea pig Rabbit	sc sc iv	LD LD LD	300 200-250 40-50
1563	Phenylethylamine HCl	Guinea pig Rabbit	sc sc	MLD MLD [*]	200-250 300
1564	β -Phenylethylamine HCl	Mouse	ip	LD ₅₀	166
1565	Phenylethylamine iodide	Mouse	ip	LD ₅₀	160
1566	α -Phenyl- β -ethylaminopropane	Rat Rat	or ip	LD ₅₀ LD ₅₀	250 80
1567	α -Phenyl- β -ethylaminopropanol	Rabbit	iv	LD	50
1568	β -Phenylethylglucosamine ⁴	Mouse	ip	LD ₅₀	426
1569	β -Phenylethylglucosamine ⁵	Mouse	ip	LD ₅₀	535
1570	2-Phenylethyl- α -hydroxyisobutyrate	Mouse Rat Guinea pig Rabbit	or or or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	2.8 cc 3.3 cc 1.1 cc 1.9 cc
1571	Phenylethyltrimethylammonium hydroxide	Mouse	sc	LD	80
1572	α -Phenylglycerol ether	Mouse	or	LD ₅₀	2650 $\pm$ 25

/1/ Salt. /2/ Base. /3/ Bovet and Bovet-Nitti, Médicaments du Système Nerveux Végétatif."

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Hanzlik, J. Ind. Hyg. 4:386, 1923. Ibid Ibid Ibid	1556
		1½ hr 24 hr 24 hr	Tainter, Arch. int. pharmacod. 36:140, 1930. Ibid Ibid Ibid	1557
			Hanzlik, J. Ind. Hyg. 4:386, 1923. Ibid Ibid Ibid Erdmann, Arch. exp. Path. Pharm. 53:401, 1905.	1558
			Hasama, Arch. exp. Path. Pharm. 153:161, 1930. Tainter, Proc. Soc. Exp. Biol. Med. 25:275, 1928. Alles, J. Pharm. Exp. Ther. 32:121, 1927. Ibid Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1559
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1560
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1561
			Hasama, Arch. exp. Path. Pharm. 153:161, 1930. Alles, J. Pharm. Exp. Ther. 32:121, 1927. Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1562
			Alles, J. Pharm. Exp. Ther. 32:121, 1927. Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1563
			Kaesling, Proc. Soc. Exp. Biol. Med. 81:607, 1952.	1564
			Kaesling, Proc. Soc. Exp. Biol. Med. 81:607, 1952.	1565
			Bovet & Bovet-Nitti, ³ Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1566
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1567
			Kaesling, Proc. Soc. Exp. Biol. Med. 81:607, 1952.	1568
			Kaesling, Proc. Soc. Exp. Biol. Med. 81:607, 1952.	1569
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Ibid Ibid Ibid	1570
			Hunt, J. Pharm. Exp. Ther. 48:51, 1933.	1571
			Loeb, Fed. Proc. 8:316, 1949.	1572

New York: S. Karger, 1948. /4/ Optical rotation +8°. /5/ Optical rotation - 15°.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1573	Phenylhydrazine	Frog Mouse Rat Rabbit Rabbit Dog Dog	sc sc sc or sc or iv	MLD LD LD LD* MLD MLD MLD	300 170 40 500 50-80 200-250 120-200
1574	4-Phenyl-1-hydrazinophthalazine	Mouse	ip	LD ₅₀	45±4
1575	Phenylhydroxylamine	Rabbit Rabbit	or sc	MLD MLD	10-20 ¹ 50
1576	2-Phenyl-4-hydroxymethyl-1,3-dioxolane	Mouse	ip	LD ₅₀	1296.0±58.4
1577	α-Phenyl-β-isopropylaminopropanol	Rabbit	iv	LD	50
1578	Phenylmercuric nitrate	Mouse Mouse Rat	sc iv sc	LD ₅₀ LD ₅₀ LD ₅₀	45 27 63
1579	Phenylmercuric-triethanolammonium lactate	Rat	or	LD ₅₀	30
1580	α-Phenyl-β-methylaminoethane	Rat Rat	or ip	LD ₅₀ LD ₅₀	1400 180
1581	α-Phenyl-β-methylaminopropane	Mouse	ip	MLD	32
1582	DL-1-Phenyl-2-methylaminopropane HCl	Rat Guinea pig Rabbit	ip ip ip	LD ₅₀ LD ₅₀ LD ₅₀	20-30 40 30-40
1583	α-Phenyl-β-methylaminopropanol	Mouse	ip	MLD	170
1584	Phenylmethylcarbinol	Rat Guinea pig	or ct	LD ₅₀ LD ₅₀	400 >15,000
1585	Phenyl-α-(1-naphthyl)methyl ether of Dimethylaminoethanol	Mouse	ip	LD ₅₀	52±2
1586	α-Phenyl-β-oxyethylaminopropane	Mouse	ip	MLD	250
1587	α-Phenylpentanolmethylamine	Rabbit	iv	LD	35
1588	α-Phenylpentylaminopropanol	Rabbit	iv	LD	20
1589	α-Phenyl-β-propylaminopropane	Mouse Rat	ip or	LD ₅₀ LD ₅₀	30 250
1590	α-Phenyl-β-propylaminopropanol	Rabbit	iv	LD	50
1591	Phenylthiourea	Rat Rat Rat	or sc ip	LD LD LD	20-40 5-27 5-12
1592	Phenyltrimethylammonium bromide	Mouse	iv	LD ₅₀	4.0±0.24

/1/ Per animal. /2/ Bovet and Bovet-Nitti. "Médicaments du Système Nerveux Végétatif."

Dosage m _g /kg Range	Vehicle	Time of Death	Reference	
		15-20 min	Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892. Von Ottingen, J. Ind. Hyg. Tox. 18:1, 1936. Hauschild, Arch. exp. Path. Pharm. 182:118, 1936. Jaffe, Zschr. f. Path., Frankfurt 24:No. 2. Hauschild, Arch. exp. Path. Pharm. 182, 118, 1936. Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892. Ibid	1573
			Walker, J. Pharm. Exp. Ther. 101:369, 1951.	1574
			Sieburg, Zschr. physiol. Chem. 92:331, 1914. Lewin, Arch. exp. Path. Pharm. 35:401, 1895.	1575
			Berger, Arch. int. pharmacod. 85:474, 1951.	1576
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1577
			Wien, Q. J. Pharm. Pharmacol. 12:212, 1939. Ibid Ibid	1578
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	1579
			Bovet & Bovet-Nitti. 2 Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1580
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1581
			Fellows, J. Pharm. Exp. Ther. 100:267, 1950. Ibid Ibid	1582
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1583
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944. Ibid	1584
			Ensor, J. Pharm. Exp. Ther. 112:318, 1954.	1585
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	1586
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1587
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1588
			Hauschild, Arch. exp. Path. Pharm. 195:647, 1940. Bovet & Bovet-Nitti. 2	1589
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1590
		2-18 hr 6-15 hr 9-15 hr	Richter, Arch. Path. 33:46, 1942. Ibid Ibid	1591
			Randall, J. Pharm. Exp. Ther. 99:16, 1950.	1592

New York: S. Karger, 1948.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1593	Phenyltrimethylammonium hydroxide	Mouse	sc	LD	49
1594	Phloroglucinol	Rat	sc	MLD	1500-1600
		Guinea pig	sc	MLD	1000-1200
		Guinea pig	ip	MLD	1000
		Dog	iv	MLD	1000-1200
1595	Phosphorus, Yellow	Rabbit	or	LD	7
		Rabbit	or	LD	10
		Rabbit	sc	LD	12.5
		Rabbit	sc	LD	30
		Dog	sc	LD	2-3
		Dog	sc	LD*	12
1596	Phosphorus sesquisulfide	Rabbit	or	LD	100
		Rabbit	sc	LD	200-600
1597	o-Phthalic acid	Mouse	ip	LD ₅₀	550
		Rat	cr	LD ₅₀	7500-8400
1598	Phthalylsulfathiazole	Mouse	ip	LD ₅₀ *	920 ¹
		Mouse	ip	LD ₅₀	800 ²
1599	Phthiocol	Mouse	or	LD ₁₀₀	600 ¹
		Mouse	ip	LD ₁₀₀	200 ¹
		Chicken	ip	LD ₁₀₀	250 ¹
1600	Phygon	Rat	or	LD ₅₀	1500
1601	Physostigmine	Frog	sc	LD	433-650
		Mouse	or	LD	3
		Mouse	sc	LD	0.75
		Mouse	iv	LD	0.5
		Rabbit	sc	LD	3
		Rabbit	iv	LD	0.4
		Cat	iv	LD	0.25
1602	Physostigmine salicylate	Cat	im	LD	1
		Cat	iv	LD	0.8
1603	Picolinaldehyde thiosemicarbazone	Mouse	or	LD ₅₀	51.1
1604	α-Picoline	Rat	or	LD ₅₀	1410
		Rabbit	ct	LD ₅₀	410 cc
1605	4-Picoline	Rat	or	LD ₅₀	1290
		Rabbit	ct	LD ₅₀	0.27 cc
1606	Picric acid	Frog	sc	LD	200
		Frog	sc	MLD	200-300
		Dog	sc	MLD	60
1607	Picropodophyllin	Mouse	ip	LD ₅₀	280
1608	Picrotoxin	Frog	sc	MLD	7
		Frog	sc	MLD	20
		Mouse	sc	LD	2.5-7.0
		Mouse	ip	LD ₅₀	4.5
		Mouse	iv	MLD	4

(continued on next page)

/1/Suspension in oil. /2/Sodium salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Hunt, J. Pharm. Exp. Ther. 28:367, 1926.	1593
			Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Chassevant, Arch. int. pharmacod. 14:93, 1905. Gibbs, Dubois' Arch. f. Physiol. p344, 1890.	1594
	Oil Oil Oil Oil Oil Oil	2-4 da 3-4 da Sev da 7 hr 2-4 da 5 da	Hirz, Zschr. Biol. 60:187, 1913. Frank, Arch. exp. Path. Pharm. 64:274, 1911. Santesson, Skand. Arch. Physiol. 15:259, 1904. Ibid Rubow, Arch. exp. Path. Pharm. 52:173, 1905. Welsh, Arch. int. pharmacod. 14:211, 1905.	1595
		11 da 2-12 da	Santesson, Skand. Arch. Physiol. 15:259, 1904. Heffter's Hdb. 3.1:619.	1596
			Hodge, Proc. Soc. Exp. Biol. Med. 49:471, 1942. Shaffer, J. Ind. Hyg. Tox. 27:130, 1945.	1597
	Oil		Mattis, J. Pharm. Exp. Ther. 81:116, 1944. Ibid	1598
	Oil Oil Oil		Molitor, Proc. Soc. Exp. Biol. Med. 43:125, 1940. Ibid Ibid	1599
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	1600
			Flury, Abderhalden's Hdb. 4.7b:1383. Aeschlimann, J. Pharm. Exp. Ther. 43:413, 1931. Ibid Ibid Ibid Heubner, Arch. exp. Path. Pharm. 53:313, 1905. Ibid	1601
			Weiss, J. Pharm. Exp. Ther. 27:181, 1926. Ibid	1602
			Grunberg, Proc. Soc. Exp. Biol. Med. 77:47, 1951.	1603
960-2080 270-630 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1604
1120-1500 0.19-0.38 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1605
		Instant	Flury, Abderhalden's Hdb. 4.7b:1384. Ilzhofer, Arch. Hyg. 87:213, 1918. Flury, Abderhalden's Hdb. 4.7b:1384.	1606
			Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951.	1607
			Swanson, J. Pharm. Exp. Ther. 57. 0, 1936. Fühner, Arch. exp. Path. Pharm. 166:437, 1932. Flury, Abderhalden's Hdb. 4.7b:1385. McOnis, Fed. Proc. 4:357, 1947. Swanson, J. Pharm. Exp. Ther. 57:410, 1936.	1608

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1608 Picrotoxin (concluded)	Rat	sc	LD ₁₀₀	81
	Rat	sc	MLD	6
	Rat	iv	MLD	4
	Guinea pig	sc	LD	8
	Rabbit	sc	MLD	2.5
	Rabbit	iv	MLD	1.25
	Rabbit	iv	MLD	1.35
	Dog	sc	LD	2.2
	Pigeon	im	LD	1.4
1609 Pilocarpine	Rabbit	iv	LD	120-230
	Pigeon	iv	LD	353 ²
1610 Pinacolin	Guinea pig	sc	LD	700
1611 Piperidine	Frog	sc	LD	1750
	Frog	sc	LD	200-1000
	Mouse	sc	LD	460-760
	Rat	sc	LD	50
	Rabbit	sc	LD	500
1612 3-Piperidyl-1,1-di-(2'-thienyl)- butane acid oxalate	Mouse	or	LD ₅₀	264
	Mouse	sc	LD ₅₀	159
1613 3-Piperidyl-1,1-di-(2'-thienyl)- butene HCl	Mouse	or	LD ₅₀	190
	Mouse	sc	LD ₅₀	119
1614 Piperonal	Rat	ip	MLD	1500-1700
1615 Piperonyl butoxide	Mouse	or	LD ₅₀	3.8 cc
	Rat	or	LD ₅₀	7.5-10.0 cc
	Rat	or	LD ₅₀ [*]	11,500
	Rabbit	ct	LD ₅₀ [*]	>1880
	Cat	or	LD ₅₀	>10 cc
	Dog	or	LD ₅₀	>7.5 cc
1616 Piperonylcyclohexanone	Mouse	or	LD ₅₀	5.1 cc
	Rat	or	LD ₅₀	5200
	Rat	or	LD ₅₀	6.9 cc
1617 Piperonylether butoxide	Mouse	or	LD ₅₀	8.3 cc
	Rat	or	LD ₅₀	8-12 cc
1618 Pip-pip	Rat ?	ip	LD ₅₀	250
1619 Plasmoquine	Mouse	sc	MLD	12.5
	Rabbit	or	MLD	225
	Rabbit	sc	MLD	20
	Rabbit	iv	MLD	3.5
	Cat	or	MLD	7.5
	Cat	sc	MLD	5.0-7.5
	Cat	iv	MLD	5
	Dog	or	MLD	20
	Dog	sc	MLD	20
	Dog	iv	MLD	5-10
	Canary	or	MLD	50

(continued on next page)

/1/5% solution in water. /2/Hydrochloride.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
	H ₂ O	4-30 min	Sampson, J. Pharm. Exp. Ther. 65:275, 1939. Kreitmaier, Arch. exp. Path. Pharm. 187:507, 1937. Swanson, J. Pharm. Exp. Ther. 57:410, 1936. Flury, Abderhalden's Hdb. 4.7b:1385. Swanson, J. Pharm. Exp. Ther. 57:410, 1936. Ibid Werner, J. Pharm. Exp. Ther. 66:260, 1939. Flury, Abderhalden's Hdb. 4.7b:1386. Ibid	1608
		1 1/2 hr	Flury, Abderhalden's Hdb. 4.7b:1386. Ibid	1609
		1 1/4-8 hr	Bong, Dissert., Stockholm 1934.	1610
			Gürber, Dubois' Arch. f. Physiol. p401, 1890. Jacobj, Arch. exp. Path. Pharm. 50:199, 1903. Ibid Tab. Biol. 3:754, 1926. Albahary, C. rend. Acad. sc. 147:996, 1908.	1611
250-278 152-167			Eddy, J. Pharm. Exp. Ther. 107:385, 1953. Ibid	1612
183-197 114-125			Eddy, J. Pharm. Exp. Ther. 107:385, 1954. Ibid	1613
			Binet, Rev. med. Suisse rom. 16:449, 1896.	1614
			Div. Pharm. F. & D. Adm. Q. Rpt. Sept. 1946. Sarlis, Am. J. Trop. Med. 29:151, 1949. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Ibid, 16:3, 1952. Sarlis, Am. J. Trop. Med. 29:151, 1949. Ibid	1615
			Draize, J. Pharm. Exp. Ther. 93:26, 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Draize, J. Pharm. Exp. Ther. 93:26, 1948.	1616
			Div. Pharm. F. & D. Adm. Q. Rpt. 1, Aug. 1946. Ibid, Rpt. 2, Dec. 1946.	1617
			Mallette, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	1618
			LeHeux, Arch. exp. Path. Pharm. 144:341, 1929. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Tshimanauri, Arch. Schiffs Tropenhyg. 35:89, 1931. LeHeux, Arch. exp. Path. Pharm. 144:341, 1929.	1619

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1619	Plasmoquine (concluded)	Canary Rooster	sc or	MLD MLD	33-50 57
1620	Platinum chloride	Rabbit Rabbit Rabbit	iv ¹ iv ² iv	MLD MLD MLD	180.1 125 22.9
1621	Plutonium citrate	Dog Dog	im iv	LD LD	0.35-0.68 0.3
1622	Podophyllic acid	Mouse Mouse	or sc	LD ₅₀ LD ₅₀	899 700
1623	Podophyllin	Mouse Mouse Dog	or sc or	LD ₅₀ LD ₅₀ LD	63 58 120
1624	Podophyllotoxin	Mouse Mouse	or sc	LD ₅₀ LD ₅₀	90 24.6
1625	Polyethylene glycol	Mouse Mouse Mouse	ip ip ip	LD ₅₀ LD ₅₀ LD ₅₀	9200±450 ³ 2000±150 ⁴ 8000±800 ⁵
1626	Polypropylene glycol	Mouse Mouse Mouse Mouse	ip ip ip ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	700±75 ³ 195±8 ⁶ 113±12 ⁷ 3600±400 ⁸
1627	Polypropylene glycol 425	Rat Rat Rat	or ip iv	LD ₅₀ LD ₅₀ LD ₅₀	2910 460 410
1628	Polypropylene glycol 1025	Rat Rat Rat	or ip iv	LD ₅₀ LD ₅₀ LD ₅₀	2150 230 120
1629	Polypropylene glycol 2025	Rat Rat Rat	or ip iv	LD ₅₀ LD ₅₀ LD ₅₀	9760 4470 710
1630	Pontamine Sky Blue	Mouse	iv	LD ₅₀	2260
1631	Potasan	Rat	ip	LD ₅₀	15
1632	Potassium acid saccharate ⁹	Rat	or	LD	>2000
1633	Potassium arsenite	Mouse Rat Guinea pig Rabbit Rabbit Cat Dog Dog	sc or sc sc iv sc sc iv	MLD LD ₅₀ MLD MLD MLD MLD MLD MLD	16-18 14 10 10 6-7 7 8 2-3

/1/Fast injection. /2/Slow injection. /3/Molecular weight 400. /4/Molecular weight 1000.
/8/Molecular weight 2000. /9/Neutralized.

Dosage mg/kg range	Vehicle	Time of Death	Reference	
			LeHeux, Arch. exp. Path. Pharm. 144:341, 1929. Kohlschütter, Arch. exp. Path. Pharm. 201:402, 1943.	1619
		3 da	Orestano, Boll. soc. ital. biol. sper. 8:1152, 1933. Ibid Ibid	1620
		16 da	Painter, Nucl. Sci. Abstr. 1:18, 1948. Ibid	1621
			Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Ibid	1622
		16 hr	Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Ibid Flury, Abderhaiden's Hdb. 4. 7b:1387.	1623
			Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Ibid	1624
			Shideman, J. Pharm. Exp. Ther. 103:293, 1951. Ibid Ibid	1625
			Shideman, J. Pharm. Exp. Ther. 103:293, 1951. Ibid Ibid Ibid	1626
2650-3190 300-700 310-540		14 da 14 da 14 da	Shaffer, Arch. Ind. Hyg. Occ. Med. 3:448, 1951. Ibid Ibid	1627
1190-2410 150-360 84-160		14 da 14 da 14 da	Shaffer, Arch. Ind. Hyg. Occ. Med. 3:448, 1951. Ibid Ibid	1628
8,850-10,760 2790-7150		14 da 14 da 14 da	Shaffer, Arch. Ind. Hyg. Occ. Med. 3:448, 1951. Ibid Ibid	1629
			Weinberg, Science 114:41, 1951.	1630
			DaBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952.	1631
			Ambrose, J. Am. Pharm. Assoc. 40:277, 1951.	1632
			Sieburg, Zschr. physiol. Chem. 97:53, 1916. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Sieburg, Zschr. physiol. Chem. 97:53, 1916. Ibid Ibid Ibid Ibid	1633

/5/Molecular weight 4000. /6/Molecular weight 750. /7/Molecular weight 1200.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1634	Potassium chlorate	Rat Rat Guinea pig Rabbit Dog	or ip ip or or	LD LD LD MLD MLD	7000 1500 1800 2000-2500 1200-1250
1635	Potassium chloride	Frog Mouse Rat Rat Rat Rat Guinea pig Guinea pig Guinea pig Pigeon	sc ip or sc ip iv sc iv ip sc	LD LD ₅₀ LD MLD LD MLD LD MLD LD MLD	950 670 2430 1200 825 90 1140 80-87 900 988
1636	Potassium chromate	Guinea pig Rabbit Dog	sc sc iv	MLD LD MLD	60-80 12 2.9-5.0
1637	Potassium columbate	Rat Rat	or ip	LD ₅₀ LD ₅₀	3000 ¹ 225 ¹
1638	Potassium cyanide	Frog Mouse Mouse Mouse Mouse Mouse Rat Rat Rat Dog Dog Pigeon Pigeon	sc sc sc sc ip iv or sc iv or or im iv	MLD LD LD ₅₀ LD ₅₀ MLD LD MLD MLD MLD LD LD MLD MLD	149 3-102 6.02±0.33 ³ 2.86±0.16 ⁴ 3-10 2.5 10-15 17 2.5 5.3 1.6 4 4
1639	Potassium dichromate	Mouse Guinea pig Rabbit Rabbit Rabbit Dog Dog Dog Dog	sc sc sc sc iv or sc sc sc	LD LD LD LD LD LD LD LD LD	100 29.4 15.8-19.0 58.8 27.9 2829 149 310 67.6
1640	Potassium fluoride	Frog Guinea pig Guinea pig	sc or sc	MLD MLD MLD	375 250 350
1641	Potassium iodide	Rat	iv	LD ⁶	285

/1/ 50% solution in H₂O. /2/ Calculated as HCN. /3/ At 23°-25° C. /4/ At 4° C.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Ulrich, J. Pharm. Exp. Ther. <u>35:1</u> , 1929. Ibid Ibid Stockuis, Arch. exp. Path. Pharm. <u>21:169</u> , 1886. Rost, Heffter's Hdb. <u>3.1:386</u> .	1634
		Few hr 1 hr	Flury, Abderhalden's Hdb. <u>4.7b:1359</u> . Alles, Univ. Cal. Publ. Pharmacol. <u>1:187</u> , 1939. Ulrich, J. Pharm. Exp. Ther. <u>35:1</u> , 1929. Main, Endocrinology <u>24:523</u> , 1939. Ulrich, J. Pharm. Exp. Ther. <u>35:1</u> , 1929. Loeser, J. Lab. Clin. Med. <u>15:35</u> , 1929. Flury, Abderhalden's Hdb. <u>4.7b:1359</u> . Amberg, J. Pharm. Exp. Ther. <u>6:595</u> , 1915. Ulrich, J. Pharm. Exp. Ther. <u>35:1</u> , 1929. Flury, Abderhalden's Hdb. <u>4.7b:1359</u> .	1635
		3-5 da	Flury, Abderhalden's Hdb. <u>4.7b:1330</u> . Eichler, Heffter's Hdb. <u>3.3:1520</u> . Ibid	1636
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950. Ibid	1637
		26 hr 21 min 155 min 3 min Rapid	Heymans, Arch. int. pharmacod. <u>3:77</u> , 1897. Flury, Abderhalden's Hdb. <u>4.7b:1340</u> . Streicher, Proc. Soc. Exp. Biol. Med. <u>76:536</u> , 1951. Ibid Flury, Abderhalden's Hdb. <u>4.7b:1340</u> . Ibid Ibid Fühner, Arch. exp. Path. Pharm. <u>166:455</u> , 1932. Ibid Gettler, Am. J. Med. Sc. <u>195:182</u> , 1938. Ibid Heymans, Arch. int. pharmacod. <u>3:77</u> , 1897. Ibid	1638
	H ₂ O	6 hr 1-3 da 8-10 da 1 hr 3 hr 4 1/2 hr 1 da	Eichler, Heffter's Hdb. <u>3.3:1520</u> . Ibid Ibid Ibid Ibid Brand, 14th Congr. Ind. Chem., Paris 1934. Ibid Ibid Eichler, Heffter's Hdb. <u>3.3:1520</u> .	1639
			Simonin, C. rend. Soc. biol. <u>124:133</u> , 1937. Ibid Ibid	1640
			Hildebrandt, Arch. exp. Path. Pharm. <u>96:292</u> , 1923.	1641

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1642	Potassium nitrate	Cat	iv	LD	>100
1643	Potassium permanganate	Mouse	sc	MLD	500
		Rabbit	iv	LD	701
1644	Potassium silicofluoride	Frog	sc	MLD	400
		Guinea pig	or	MLD	250
		Guinea pig	sc	MLD	500
1645	Potassium sulfate	Guinea pig	sc	LD	3000
1646	Potassium tantalum fluoride	Rat	or	LD ₅₀	2500 ²
		Rat	ip	LD ₅₀	375 ²
1647	Potassium thiocyanate	Frog	sc	LD	250-300
		Mouse	or	LD ₅₀	594.4±27
		Mouse	iv	LD ₅₀	88.2±5.8
		Rat	or	LD ₅₀	854.1±66.6
		Rat	sc	LD	1000
		Guinea pig	or	LD	600-800
		Guinea pig	sc	LD	150-300
		Guinea pig	sc	LD	750
		Rabbit	or	LD	500-1000
		Rabbit	sc	LD	550
		Rabbit	iv	LD	150-180
		Dog	iv	LD	100
		Pigeon	sc	LD	500
		Pigeon	im	LD	500
1648	Frantal	Mouse	or	LD ₅₀	317
		Mouse	ip	LD ₅₀	47
		Rat	or	LD ₅₀	1107
		Guinea pig	or	LD ₅₀	404
		Dog	iv	LD ₅₀	41.6
1649	Praseodymium chloride, PrCl ₃ ·7H ₂ O	Mouse	sc	LD ₅₀	2500
		Rabbit	iv ³	LD ₅₀	200-250
1650	Praseodymium nitrate, Pr(NO ₃) ₃ ·6H ₂ O	Rat	iv	LD	10.8-13.9
1651	Privine	Mouse	iv	LD ₅₀	17C
		Rat	sc	LD ₅₀	385
		Rat	sc	LD	200
		Rat	ip	LD	50
		Rabbit	sc	LD ₅₀	0.95
		Rabbit	iv	LD ₅₀	0.8
1652	Procaine	Frog	sc	MLD	1500 ⁵
		Frog	sc	MLD	1250-1330 ⁶
		Mouse	or	LD ₅₀	900
		Mouse	sc	MLD	800 ⁵
		Mouse	sc	MLD	1600-1700 ⁵
		Mouse	sc	MLD	1330-1410 ⁶
		Mouse	sc	LD ₅₀	339.1±42.4
		Mouse	sc	LD ₅₀	800
		Mouse	im	LD ₅₀	630

(continued on next page)

/1/5% solution in H₂O. /2/Suspension in H₂O. /3/Injected at rate of 3-4 cc per minute.
S. Karger, 1948. /5/Hydrochloride. /6/Base.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O		Flury, Abderhalden's Hdb. 4.7b:1360.	1642
	H ₂ O	Instant	Langecker, Heffter's Hdb. 3.2:1346. Ibid	1643
			Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Ibid	1644
			Flury, Abderhalden's Hdb. 4.7b:1360.	1645
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1646
		6-12 hr	Flury, Abderhalden's Hdb. 4.7b:1391. Anderson, J. Am. Pharm. Assoc. 29:152, 1940. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1391. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	1647
259-361 900-1362 254-642		5 da	Margolin, Proc. Soc. Exp. Biol. Med. 78:576, 1951. Ibid Ibid Ibid	1648
	H ₂ O		Vincke, Arch. exp. Path. Pharm. 188:465, 1938. Ibid	1649
		3-5 da	Maxwell, J. Pharm. Exp. Ther. 43:61, 1931.	1650
			Gylfe, Fed. Proc. 9:280, 1950. Ibid Bovet & Bovet-Nitti. ⁴ Ibid Gylfe, Fed. Proc. 9:280, 1950. Ibid	1651
			Hirschfelder, Physiol. Rev. 12:262, 1932. Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Seifter, Antibiotics 1:504, 1951. Hirschfelder, Physiol. Rev. 12:262, 1932. Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Ibid Schamp, Anesthesiology 3:398, 1942. Rosa, J. Lab. Clin. Med. 15:731, 1930. Seifter, Antibiotics 1:504, 1951.	1652

/4/Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York:

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1652 Procaine (concluded)	Mouse	ip	LD ₅₀	123.8±7.1
	Mouse	iv	LD ₅₀	56.9±1.5
	Rat	sc	LD ₅₀	2100
	Rat	sc	MLD	1650
	Rat	ip	LD ₅₀	184
	Rat	ip	LD	300
	Rat	ip	LD ₅₀	225±24
	Rat	ip	LD ₅₀	269.2±5.8
	Rat	iv	LD ₅₀	38.3±1.6
	Rat	iv	LD ₅₀	53
	Guinea pig	sc	MLD	430
	Guinea pig	ip	MLD	60
	Guinea pig	iv	MLD	50
	Rabbit	sc	MLD	460
	Rabbit	iv	LD ₅₀	57
	Guinea pig	sc	MLD	430
	Guinea pig	ip	MLD	60
	Guinea pig	iv	MLD	50
	Rabbit	sc	MLD	460
	Rabbit	iv	LD ₅₀	44
	Rabbit	iv	LD ₅₀	57
	Cat	sc	MLD	450
	Cat	iv	MLD	40-45
	Dog	sc	MLD	250
1653 Progesterone	Rat	ip	LD ₁₀₀	327.1
1654 Prolan	Rat	or	LD ₅₀ *	4000
	Rabbit	ct	LD ₅₀	400-800
1655 Promurit	Mouse	ip	LD ₅₀	1.35
	Rat ♀	or	LD ₅₀ *	0.28
	Rat ♀	ip	LD ₅₀	0.2
	Guinea pig	ip	LD ₅₀	1.9
	Rabbit	ip	LD ₅₀	1.75
1656 Propadrine	Rabbit	iv	LD	75
1657 Propanol	Mouse	or	MLD	3500-4500
	Mouse	sc	MLD	4985
	Rat	or	LD ₅₀	1870
	Rat	ip	MLD	3216
	Rabbit	ct	LD ₅₀	5.04 cc
	Rabbit	iv	LD	4020
	Cat	iv	LD	1608
	Dog	or	LD	2975-3296
	Dog	sc	LD	4020-4502
1658 Propionaldehyde	Mouse	sc	LD ₅₀	680
	Rat	or	LD ₅₀	1410
	Rat	sc	LD ₅₀	820
	Rabbit	ct	LD ₅₀	5.04 cc
1659 Propionic anhydride	Rat	or	LD ₅₀	2360
	Rabbit	ct	LD ₅₀	10 cc

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Schamp, Anesthesiology 3:398, 1942. Ibid Rose, J. Lab. Clin. Med. 15:731, 1930. Hirschfelder, Physiol. Rev. 12:262, 1932. Burgison, Fed. Proc. 10:284, 1951. Rose, J. Lab. Clin. Med. 15:731, 1930. Rau, J. Pharm. Exp. Ther. 101:421, 1951. Schamp, Anesthesiology 3:398, 1942. Ibid Rose, J. Lab. Clin. Med. 15:731, 1930. Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid Ibid Rose, J. Lab. Clin. Med. 15:731, 1930. Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid Ibid Burgison, Fed. Proc. 10:284, 1951. Rose, J. Lab. Clin. Med. 15:731, 1930. Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid ibid	1652
	Peanutoil	6 hr	Selye, Proc. Soc. Exp. Biol. Med. 46:116, 1941.	1653
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Ibid, 16:3, 1952.	1654
	Prop gly Prop gly Prop gly Prop gly		Cochran, Fed. Proc. 8:283, 1949. Ibid Ibid Ibid Ibid	1655
			Chen, J. Pharm. Exp. Ther. 36:363, 1929.	1656
1340-2600 3.4-7.46 cc			Weese, Arch. exp. Path. Pharm. 135:118, 1928. Starrek, Dissert., Würzburg 1938. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Lendle, Arch. exp. Path. Pharm. 132:214, 1928. Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Lehman, J. Pharm. Exp. Ther. 61:103, 1937. Macht, J. Pharm. Exp. Ther. 16:1, 1921. Dujardin, C. rend. Acad. sc. 81:192, 1875. Ibid	1657
960-2080 3.4-7.46 cc		24 hr 24 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Skog, Acta pharm. tox. 6:299, 1950. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	1658
2060-2710 5.3-19.0 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	1659

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1660	Propionitrile	Frog Rat Rabbit Rabbit Rabbit Pigeon	sc or sc ct iv im	MLD LD ₅₀ MLD LD ₅₀ MLD LD	8000 39 65 210 50 1250
1661	3-Propionyloxy-6-dimethylamino-4,4-diphenylheptane	Mouse	sc	LD ₅₀	250
1662	3-Propionyloxy-6-dimethylamino-4,4-diphenyl-5-methylhexane	Mouse	sc	LD ₅₀	600
1663	Propional	Rat Rat	sc sc	LD ₅₀ MLD	260 200-350
1664	p-(n-Propoxy)benzaldehyde	Mouse Rat	or or	LD ₅₀ LD ₅₀	1.8 cc 1.6 cc
1665	n-Propyladrenalin	Mouse	sc	LD	200
1666	p-n-Propylbenzaldehyde	Mouse Rat	or or	LD ₅₀ LD ₅₀	1.8 cc 4.2 cc
1667	Propylbenzazepine	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	145±13 17±2.3
1668	n-Propyl cinnamate	Mouse Guinea pig	or or	LD ₅₀ LD ₅₀	7 cc 3 cc
1669	Propylenebenzazepine	Mouse Mouse Mouse Mouse Mouse Rabbit Dog	or sc im ip iv iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	460±29 725±43 600±125 210±13 26.5±5 26.5±5.1 50±24
1670	Propylene chlorohydrin	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	220 720
1671	Propylene glycol	Mouse Mouse Mouse Mouse? Mouse Mouse Rat Rat Rat Rat Rat Rat Rat Guinea pig	or or sc ip iv iv or or sc sc ip im im or	LD ₅₀ LD LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	2200 23,900 18,500 9730 5000 8000 21,000 32,200 24,900 28,000 13,000 13,400 20,000 18,350
	(continued on next page)				

/1/Bovet and Bovet-Nitti. "Médicaments du Système Nerveux Végétatif," New York: S.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
30-51 150-300			Verbrugge, Arch. int. pharmacod. 5:161, 1899. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Verbrugge, Arch. int. pharmacod. 5:161, 1899. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Lapigne, C. rend. Soc. biol. 41:251, 1889. Meurice, Arch. int. pharmacod. 7:11, 1900.	1660
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	1661
			Eddy, J. Pharm. Exp. Ther. 98:121, 1950.	1662
			Vogt, Arch. exp. Path. Pharm. 152:341, 1930. Gros, Arch. exp. Path. Pharm. 182:348, 1936.	1663
			Draize, J. Pharm. Exp. Ther. 93:26, 1946. Ibid	1664
			Bovet & Bovet-Nitti. I	1665
			Div. Pharm. F. & D. Adm. Q. Rpt. 3, April 1946. Ibid. Rpt. 4, June 1946.	1666
			Randall, J. Pharm. Exp. Ther. 103:10, 1951. Ibid	1667
			Draize, J. Pharm. Exp. Ther. 93:26, 1946. Ibid	1668
			Randall, J. Pharm. Exp. Ther. 103:10, 1951. Ibid Ibid Ibid Ibid Ibid	1669
190-270 620-830			Smyth, J. Ind. Hyg. Tox. 23:259, 1941. Ibid	1670
22, 800-25, 100 16, 940-19, 870			Latven, J. Pharm. Exp. Ther. 65:89, 1939. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Latven, J. Pharm. Exp. Ther. 65:89, 1939. Karel, Fed. Proc. 6:342, 1947. Lehmann & Flury, "Industrial Solvents," 1943. Latven, J. Pharm. Exp. Ther. 65:89, 1939. Laug, J. Ind. Hyg. Tox. 21:173, 1939. Weatherby, J. Am. Pharm. Assoc. 27:466, 1938. Braun, J. Am. Pharm. Assoc. 25:746, 1946. Thomas, J. Ind. Hyg. Tox. 31:256, 1949. Ibid Weatherby, J. Am. Pharm. Assoc. 27:466, 1938. Thomas, J. Ind. Hyg. Tox. 31:256, 1949. Smyth, J. Ind. Hyg. Tox. 23:259, 1941.	1671

Karger, 1948.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1671	Propylene glycol (concluded)	Guinea pig Rabbit Rabbit Rabbit Dog	or or iv iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD	18,900 19,200 4100 6200 25,000
1672	1,3-Propylene glycol	Mouse	or	LD ₅₀	6
1673	Propylene glycol ethyl ether (β isomer)	Rat	or	LD ₅₀	8930
1674	Propylene glycol methyl ether	Rat	or	LD ₅₀	6.6 cc
1675	2-a-propylenephenoxyethyl- β - chloroethylamine	Mouse	sc	LD ₅₀	>1000
1676	N-Propylepinephrine	Mouse	sc	LD	200
1677	n-Propyl-2-furylcarbamate	Rat	or	LD ₅₀	1600
1678	Propyl gallate	Rat Rat	or ip	LD ₅₀ LD ₅₀	3800 380
1679	n-Propylisome	Rat Rabbit	or ct	LD ₅₀ ^a LD ₅₀ ^a	15,000 >375 ²
1680	Propyl lupetidine	Frog	sc	LD ^b	100
1681	β -Propylpiperidine (synthetic Coniine)	Rabbit	sc	LD	150
1682	n-Propylpiperidine	Rabbit	sc	LD	10
1683	n-Propyltrimethylammonium iodide	Mouse	ip	LD ₅₀	68
1684	Protoveratrine	Frog ³ Frog ⁴ Mouse Mouse Mouse Rat Rat Rabbit Rabbit Cat	sc sc iv ip ip or sc sc iv sc	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	4.5 13 0.048 0.44 ⁵ 0.37 ⁵ 5 0.6 0.11 0.05 0.5
1695	Protoverine	Mouse	iv	LD ₅₀	194
1686	Pseudoephedrine	Rabbit Rabbit	sc iv	MLD MLD	500 100
1687	Psicaine	Mouse Rat Guinea pig Guinea pig Guinea pig Cat Cat Dog	sc iv ⁶ sc ip iv sc iv iv	MLD MLD MLD MLD MLD MLD MLD LD	330 30 95 200 20 60 15 25

/1/Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York:
from two commercial sources. /6/Slow injection.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
17, 200-20, 700			Laug, J. Ind. Hyg. Tox. <u>21</u> :173, 1939. Braun, J. Am. Pharm. Assoc. <u>25</u> :746, 1936. Weatherby, J. Am. Pharm. Assoc. <u>27</u> :466, 1938. Ajazzi, Boll. soc. ital. biol. sper. <u>14</u> :68, 1939. Hanzlik, J. Pharm. Exp. Ther. <u>67</u> :101, 1939.	1671
			Kopf, Arch. exp. Path. Pharm. <u>210</u> :346, 1950.	1672
7, 890 - 10, 900			Smyth, J. Ind. Hyg. Tox. <u>30</u> :63, 1948.	1673
6.1-6.9 cc			Rowe, Arch. Ind. Hyg. Occ. Med. <u>9</u> :509, 1954.	1674
		10 da	Nickerson, J. Pharm. Exp. Ther. <u>101</u> :379, 1951.	1675
			Bovet & Bovet-Nitti, ¹	1676
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	1677
			Orten, Food Technol. <u>2</u> :308, 1948. Ibid	1678
	H ₂ O		Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951. Lehman, Q. Bull. Assoc. F. & D. Off. <u>16</u> :3, 1952.	1679
			Gürber, Dubois' Arch. f. Physiol. <u>401</u> , 1890.	1680
			Granger, Ber. deut. chem. Ges. <u>30</u> :1060, 1897.	1681
			Wolfenstein, Ber. deut. chem. Ges. <u>34</u> :2408, 1901.	1682
			Alles, Univ. Cal. Publ. Pharmacol. <u>1</u> :187, 1939.	1683
0.30-0.64 0.29-0.48			Haas, Arch. exp. Path. Pharm. <u>189</u> :397, 1938. Ibid Krayser, J. Pharm. Exp. Ther. <u>82</u> :167, 1944. Swiss, Proc. Soc. Exp. Biol. Med. <u>76</u> :347, 1951. Ibid Krayser, Physiol. Rev. <u>26</u> :383, 1946. Ibid Ibid Haas, Arch. exp. Path. Pharm. <u>189</u> :397, 1938. Ibid	1684
			Krayser, J. Pharm. Exp. Ther. <u>82</u> :167, 1944.	1685
			Chou, Proc. Soc. Exp. Biol. Med. <u>23</u> :618, 1926. Ibid	1686
			Hirschfelder, Physiol. Rev. <u>12</u> :262, 1932. Ibid Ibid Ibid Ibid Hirschfelder, Physiol. Rev. <u>12</u> :262, 1932. Mercier, C. rend. Acad. sc. <u>189</u> :872, 1929.	1687

S. Karger, 1948. /2/4% solution. /3/Rana temporaria. /4/R. esculenta. /5/Preparations

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1688	Psychotrine HCl	Rat	sc	LD	>1000
		Guinea pig	sc	LD	>200
1689	Pulvinic acid	Mouse	ip	LD ₅₀	500
1690	Pyrethrins I & II	Mouse	ip	LD ₁₀₀	200
		Rat	or	LD ₅₀	820 ¹
		Rat	or	LD ₅₀	1870 ¹
		Rat	ip	LD ₉₀	200
		Guinea pig	or	LD ₅₀	1500
		Guinea pig	ip	LD ₉₀	200
		Dog	iv	LD	6-8
1691	Pyribenzamine	Mouse	or	LD ₅₀	210
		Mouse	or	LD ₅₀	97-44
		Mouse	or	LD ₅₀	360±30
		Mouse	sc	LD ₅₀	62
		Mouse	sc	LD ₅₀	75
		Mouse	ip	LD ₅₀	65
		Mouse	ip	LD ₅₀	70±2
		Mouse	ip	LD ₅₀	45
		Mouse	iv	LD ₅₀	12
		Mouse	iv	LD ₅₀	17±1.4
		Rat	or	LD ₅₀	570
		Rat	or	LD ₅₀	515
		Rat	sc	LD ₅₀	225
		Rat	sc	LD ₅₀	340
		Rat	iv	LD ₅₀	13±1
		Rat	iv	LD ₅₀	15-20
		Rabbit	sc	LD ₅₀	33
		Rabbit	iv	LD ₅₀	9
		Rabbit	iv	LD ₅₀	12
		Hamster	iv	LD ₅₀	13±1
1692	Pyridine	Mouse	ip	MLD ²	1200
		Rat	or	LD ₅₀	1580
		Rat	sc	LD ₅₀	1000
		Guinea pig	or	MLD	4000
		Guinea pig	ip	MLD	870
		Rabbit	or	MLD	2000
1693	Pyridium	Rat	ip	LD ₁₀₀	450 ²
1694	Pyridoxine	Mouse	iv	LD ₅₀	545.3±42.9
		Rat	or	LD ₅₀	5500 ³
		Rat	sc	LD ₅₀	3700 ³
		Rat	sc	LD	3100 ⁴
		Rat	iv	LD ₅₀	657.5±18.3
1695	N-(2-Pyridyl)-N',N'-dimethylene- diamine fumarate	Mouse	or	LD ₅₀	264-423
		Mouse	ip	LD ₅₀	136

/1/ 20% in an olive oil base. /2/ 1% solution. /3/ Hydrochloride. /4/ Base.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Walters, J. Pharm. Exp. Ther. <u>10</u> :73, 1917. Ibid	1688
			Brodersen, Acta pharm. tox. <u>2</u> :109, 1946.	1689
680-1000 1340-2600	Pet oil Olive oil Olive oil Pet oil Pet oil Pet oil	48 hr	Shimkin, Proc. Soc. Exp. Biol. Med. <u>34</u> :135, 1936. Carpenter, Arch. Ind. Hyg. Occ. Med. <u>2</u> :420, 1950. Ibid Shimkin, Proc. Soc. Exp. Biol. Med. <u>34</u> :145, 1936. Ibid Ibid Chevalier, Bull. sc. pharm. <u>37</u> :154, 1930.	1690
63-67 36-57		Rapid	Loew, Physiol. Rev. <u>27</u> :542, 1947. Orcutt, J. Pharm. Exp. Ther. <u>101</u> :488, 1951. Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949. Van der Brock, J. Pharm. Exp. Ther. <u>94</u> :197, 1948. Loew, Physiol. Rev. <u>27</u> :542, 1947. Orcutt, J. Pharm. Exp. Ther. <u>101</u> :488, 1951. Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949. Way, J. Pharm. Exp. Ther. <u>104</u> :115, 1952. Loew, Physiol. Rev. <u>27</u> :542, 1947. Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949. Loew, Physiol. Rev. <u>27</u> :542, 1947. Ibid Ibid Ibid Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949. Van der Brock, J. Pharm. Exp. Ther. <u>94</u> :197, 1948. Loew, Physiol. Rev. <u>27</u> :542, 1947. Ibid Van der Brock, J. Pharm. Exp. Ther. <u>94</u> :197, 1948. Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949.	1691
1420-1770			Baxter, J. Clin. Invest. <u>25</u> :908, 1946. Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Brazda, Proc. Soc. Exp. Biol. Med. <u>62</u> :19, 1946. Brunton, J. Physiol. <u>17</u> :272, 1894. Ibid Distler, Dissert., Erlangen 1882.	1692
	H ₂ O	6½ hr	Walton, J. Pharm. Exp. Ther. <u>51</u> :200, 1934.	1693
			Wiegand, Proc. Soc. Exp. Biol. Med. <u>44</u> :147, 1940. Unna, J. Pharm. Exp. Ther. <u>73</u> :85, 1941. Ibid Ibid Wiegand, Proc. Soc. Exp. Biol. Med. <u>44</u> :147, 1940.	1694
125-148			Orcutt, J. Pharm. Exp. Ther. <u>101</u> :488, 1951. Ibid	1695

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1696	Pyrogallol	Frog	sc	MLD	200-300
		Rat	sc	MLD	600-700
		Guinea pig	sc	MLD	800-1200
		Rabbit	or	MLD	1100
		Dog	or	MLD	25
		Dog	sc	MLD	300-400
		Dog	iv	MLD	80-100
1697	Pyronyl	Mouse	or	LD ₅₀	1116±73
		Mouse	sc	LD ₅₀	1270±156
		Mouse	im	LD ₅₀	836.6±95
		Mouse	iv	LD ₅₀	53.53±1.61
		Guinea pig	or	LD ₅₀	992.6±107
		Guinea pig	sc	LD ₅₀	1241±165
		Guinea pig	im	LD ₅₀	625.6±41.9
1698	Pyrotartaric acid	Frog	sc	MLD	2400-2600
1699	Pyrrolazote	Mouse	sc	LD ₅₀	1500
		Mouse	iv	LD ₅₀	33-39
		Rat	iv	LD ₅₀	24-27
		Rabbit	iv	LD ₅₀ *	38
1700	Pyrrole	Mouse	sc	MLD	60,500
1701	3-Pyrrolidyl-1,1-di-(2'-thienyl)- butane HCl	Mouse	or	LD ₅₀	284
		Mouse	sc	LD ₅₀	222
1702	3-Pyrrolidyl-1,1-di-(2'-thienyl)- butene HCl	Mouse	or	LD ₅₀	215
		Mouse	sc	LD ₅₀	121
1703	Pyrroline	Cat	sc	MLD	300
1704	Quercetin ¹	Mouse	or	LD ₅₀	161
		Mouse	sc	LD ₅₀	97
1705	Quercetin ²	Mouse	or	LD ₅₀	159
		Mouse	sc	LD ₅₀	99
1706	Quinaldine	Rat	or	LD ₅₀	1230
		Rabbit	ct	LD ₅₀	1870
1707	Quinhydrone	Rat	or	LD ₅₀ *	225
		Rat	iv	LD ₅₀ *	35
1708	Quinidine	Frog	sc	MLD	250
		Mouse	sc	MLD	400
		Rat	ip	MLD	174
		Cat	iv	LD ₅₀	21.6
1709	Quinidine sulfate	Mouse	or	LD ₅₀	593.9±83.0
		Mouse	ip	LD ₅₀	189.96±39.5
		Mouse	iv	LD ₅₀	66.97±3.36
		Mouse	iv	LD ₅₀	69.0±2.6
		Rat	ip	LD	200

/1/Derived from podophyllin. /2/Derived from quercetron.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Ibid Heyroth, personal communication. Vitali, Tierchem. 29:827, 1894 Neisser, Zschr. klin. Med. 1:88, 1880. Gibbs, Dubois' Arch. f. Physiol. p344, 1890.	1696
			Lee, Proc. Soc. Exp. Biol. Med. 80:458, 1952. Ibid Ibid Ibid Ibid Ibid	1697
			Heymans, Dubois' Arch. f. Physiol. p168, 1889.	1698
			Van der Brock, J. Pharm. Exp. Ther. 94:197, 1948. Ibid Ibid Ibid	1699
			Rabbeno, Arch. int. pharmacod. 59:431, 1938.	1700
266-302 200-246			Eddy, J. Pharm. Exp. Ther. 107:385, 1953. Ibid	1701
196-235 112-130			Eddy, J. Pharm. Exp. Ther. 107:385, 1953. Ibid	1702
		4 hr	Tunicliffe, Zbl. Physiol. 16:93, 1903.	1703
			Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Ibid	1704
			Sullivan, Proc. Soc. Exp. Biol. Med. 77:269, 1951. Ibid	1705
440-1620 1340-2600			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951. Ibid	1706
			Woodard, Fed. Proc. 8:348, 1949. Ibid	1707
			Bonsmann, Arch. exp. Path. Pharm. 295:129, 1948. Ibid Ibid Kirchmann, Arch. exp. Path. Pharm. 192:639, 1939.	1708
			Caesnick, J. Pharm. Exp. Ther. 102:138, 1951. Ibid Ibid Scott, J. Pharm. Exp. Ther. 84:184, 1946. Macht, J. Pharm. Exp. Ther. 22:21, 1923.	1709

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1710 Quinine	Frog	sc	LD	200
	Frog	sc	LD	400
	Frog	sc	LD	600 ¹
	Frog	sc	MLD	200
	Frog	sc	MLD	700
	Rat	or	MLD	<500
	Rat	sc	MLD	200
	Rat	sc	LD	790
	Rat	im	MLD	300
	Rat	iv	MLD	<75
	Guinea pig	or	MLD	300
	Guinea pig	sc	MLD	160
	Guinea pig	sc	LD	293
	Rabbit	or	LD	800
	Rabbit	or	LD	1500 ¹
	Rabbit	sc	LD	231
	Rabbit	sc	LD	250
	Rabbit	sc	LD	500 ¹
	Rabbit	iv	LD	70 ¹
	Cat	sc	MLD	100
1711 Quinine-n-amylochloride	Dog	sc	LD ²	180
	Rooster	or	LD	857 ²
1712 Quinine-n-butylchloride	Rat	iv	LD ₅₀	4.5
	Rabbit	iv	LD ₅₀	10
	Dog	iv	LD ₅₀	15.6
1713 Quinine ethochloride	Rat	iv	LD ₅₀	7.2
	Rabbit	iv	LD ₅₀	5.8
	Dog	iv	LD ₅₀	9.5
1714 Quinine hexylbromide	Rat	iv	LD ₅₀	5.2
	Rabbit	iv	LD ₅₀	7.6
	Dog	iv	LD ₅₀	12.9
1715 Quinine isoamylbromide	Rat	iv	LD ₅₀	9.3
	Rabbit	iv	LD ₅₀	10
	Dog	iv	LD ₅₀	20.8
1716 Quinine isopropylchloride	Rat	iv	LD ₅₀	5.3
	Rabbit	iv	LD ₅₀	10.3
	Dog	iv	LD ₅₀	20
1717 Quinine methochloride	Rat	iv	LD ₅₀	20.8
	Rabbit	iv	LD ₅₀	13.2
	Dog	iv	LD ₅₀	9.3
1718 Quinine-n-propylbromide	Rat	iv	LD ₅₀	5
	Rabbit	iv	LD ₅₀	7
	Dog	iv	LD ₅₀	16.3
1719 Quinine-n-propylbromide	Rat	iv	LD ₅₀	4.2
	Rabbit	iv	LD ₅₀	3.4
	Dog	iv	LD ₅₀	5.9

/1/Hydrobromide. /2/Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Bonsmann, Arch. exp. Path. Pharm. 205:129, 1948. Smith, J. Pharm. Exp. Ther. 8:53, 1916. Flury, Abderhalden's Hdb. 4. 7b:1320. Bonsmann, Arch. exp. Path. Pharm. 205:129, 1948. Smith, J. Pharm. Exp. Ther. 8:53, 1916. Nelson, J. Pharm. Exp. Ther. 63:122, 1938. Bonsmann, Arch. exp. Path. Pharm. 205:129, 1948. Flury, Abderhalden's Hdb. 4. 7b:1320. Nelson, J. Pharm. Exp. Ther. 63:122, 1938. ibid 4-5 hr Hunt, Arch. int. pharmacod. 12:497, 1904. Bonsmann, Arch. exp. Path. Pharm. 205:129, 1948. Flury, Abderhalden's Hdb. 4. 7b:1320. 7-9 hr Hunt, Arch. int. pharmacod. 12:497, 1904. Flury, Abderhalden's Hdb. 4. 7b:1320. ibid 2 hr* Hunt, Arch. int. pharmacod. 12:497, 1904. Flury, Abderhalden's Hdb. 4. 7b:1320. ibid Bonsmann, Arch. exp. Path. Pharm. 205:129, 1948. Flury, Abderhalden's Hdb. 4. 7b:1320. Kohlschütter, Arch. exp. Path. Pharm. 201:402, 1943.	1710
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1711
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1712
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1713
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1714
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1715
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1716
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1717
			Chase, J. Pharm. Exp. Ther. 82:266, 1944. Ibid Ibid	1718

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1719	Quinine-n-propylchloride	Rat Rabbit Dog	iv iv iv	LD ₅₀ LD ₅₀ LD ₅₀	6.9 2.9 4.3
1720	Quinoline	Rat Rabbit Rabbit	or ct sc	LD ₅₀ LD ₅₀ LC	460 540 200-400 ¹
1721	Quinone	Rat Rat	or iv	LD ₅₀ ^a LD ₅₀ ^a	130 25
1722	Quinosol	Mouse Rat Guinea pig Cat	sc sc or sc	MLD MLD LD ₁₀ MLD	20 30 1200 30
1723	p-Quinuclidinol acetate HCl	Mouse	iv	LD ₅₀	27
1724	Quinuclidinol-α-allyldiphenyl- acetate HCl	Mouse	ip	LD ₅₀	132
1725	Quinuclidinolbenzilate HCl	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	110 23.5
1726	Quinuclidinoldiphenylacetate- ½H ₂ SO ₄ ·H ₂ O	Mouse Mouse Dog	ip iv iv	LD ₅₀ LD ₅₀ LD ₅₀	150 28.1 20
1727	L-Quinuclidinoldiphenylacetate HCl	Mouse	iv	LD ₅₀	29.5
1728	Quinuclidinoethylbromide diphenylacetate	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	52 3.7
1729	Quinuclidinol-9-fluorene-carboxylate HCl	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	165 26
1730	Quinuclidinolmethylbromide- benzilate	Mouse Mouse Mouse Mouse Dog	or sc ip iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	492 500 54 16.1 26
1731	Quinuclidinolmethylbromide diphenylacetate	Mouse Mouse	ip iv	LD ₅₀ LD ₅₀	55 4.25
1732	Quotane	Rat Rabbit	ip iv	LD ₅₀ LD ₅₀	45-50 5
1733	Resibufogenin	Cat	iv	LD ₅₀	5.08-7.91
1734	Resorcinol (continued on next page)	Frog Mouse	sc sc	MLD MLD	270-290 340-360

/1/Salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Chase, J. Pharm. Exp. Ther. <u>82</u> :266, 1944. Ibid Ibid	1719
240-890 350-830			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid Flury, Abderhalden's Hdb. <u>4</u> , 7b:1322.	1720
			Woodard, Fed. Proc. <u>8</u> :348, 1949. Ibid	1721
			Heubner, Klin. Wschr. <u>52</u> :1709, 1926. Ibid Anderson, Proc. Soc. Exp. Biol. Med. <u>28</u> :484, 1931. Heubner, Klin. Wschr. <u>52</u> :1709, 1926.	1722
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952.	1723
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952.	1724
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid	1725
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid Ibid	1726
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952.	1727
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid	1728
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid	1729
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid Ibid Ibid Ibid	1730
			Randall, J. Pharm. Exp. Ther. <u>104</u> :284, 1952. Ibid	1731
			Fellows, J. Pharm. Exp. Ther. <u>103</u> :306, 1950. Ibid	1732
	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1733
		28 hr	Fühner, Arch. exp. Path. Pharm. <u>166</u> :437, 1932. Ibid	1734

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1734 Resorcinol (concluded)	Rat Guinea pig Guinea pig Dog	sc sc ip iv	MLD MLD MLD LD	400-500 400-500 300 700-1000
1735 r-Resorcyate sodium	Mouse Mouse	or sc	LD ₁₀₀ LD ₁₀₀	>5000 2500
1736 Retrosine	Mouse	iv	LD ₅₀	71.67±2.93
1737 Ricin ¹	Mouse Mouse Rat Guinea pig Guinea pig Rabbit Rabbit Cat Cat Dog	sc ip sc sc im sc im im im im	LD LD LD LD LD LD* LD LD LD LD	0.02 0.1 0.02 0.02 0.0008-0.0032 0.02 0.0001-0.0005 0.0002 0.1 0.0006-0.5
1738 Rimifon	Mouse Mouse Mouse Mouse Mouse Mouse Mouse Mouse Rat Rabbit Rabbit	or ct sc sc im ip iv iv or or iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	142±10 203 160±11.2 203 140±15.4 132±13.2 152±16.8 171 1435 250 94
1739 Rivanol	Mouse Mouse Mouse Rabbit Rabbit	sc ip iv sc iv	LD LD LD LD LD	75 41.65 45.5 100 50
1740 Roccal	Mouse Mouse Rat Rat Rat Rat Guinea pig	or iv or or or ip or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	340 16 234.3±26.5 350 445 50 200
1741 Rodione	Mouse	or	LD ₅₀	2500
1742 Rotenone	Mouse Rat Rat Rat Guinea pig Guinea pig	ip or or ip or or	LD ₁₀₀ LD ₅₀ LD ₅₀ * LD ₁₀₀ MLD* MLD*	10 100 132 5 200 75

(continued on next page)

/1/ Toxicity of different preparations varies considerably.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Binet, Rev. méd. Suisse rom. <u>15:561</u> , 1895. Ibid Chassevant, Arch. int. pharmacod. <u>14:93</u> , 1905. Gibbs, Dubois' Arch. f. Physiol. <u>p352</u> , 1890.	1734
			Buttle, Brit. Med. J. <u>2:325</u> , 1951. Ibid	1735
			Henderson, Proc. Soc. Exp. Biol. Med. <u>76:530</u> , 1951.	1736
			Carmichael, J. Pharm. Exp. Ther. <u>35:193</u> , 1929. Rpt. Chemother. Leukemia, So. Res. Inst. Carmichael, J. Pharm. Exp. Ther. <u>35:193</u> , 1929. Ibid Field, J. Exp. Med. <u>12:551</u> , 1910. Carmichael, J. Pharm. Exp. Ther. <u>35:193</u> , 1929. Field, J. Exp. Med. <u>12:551</u> , 1910. Ibid Ibid Ibid	1737
		1 da 1 da 1 da 1 da 1 da 1 da 1 wk 1 da 1 da	Benson, Am. Rev. Tuberc. <u>65:376</u> , 1952. Grunberg, Q. Bull. Sea View Hosp. <u>13:3</u> , 1952. Benson, Am. Rev. Tuberc. <u>65:376</u> , 1952. Grunberg, Q. Bull. Sea View Hosp. <u>13:3</u> , 1952. Benson, Am. Rev. Tuberc. <u>65:376</u> , 1952. Ibid Ibid Grunberg, Q. Bull. Sea View Hosp. <u>13:3</u> , 1952. Benson, Am. Rev. Tuberc. <u>65:376</u> , 1952. Ibid Ibid	1738
			Fiury, Abderhalden's Hdb. <u>4, 7b:1292</u> . Ibid Ibid Ibid Ibid	1739
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>18:43</u> , 1954. Ibid Alfredson, J. Am. Pharm. Assoc. <u>40:263</u> , 1951. Lehman, Q. Bull. Assoc. F. & D. Off. <u>18:43</u> , 1954. Ibid Ibid Ibid	1740
			Molitor, Arch. int. pharmacod. <u>62:281</u> , 1939.	1741
	Eth gly Eth gly Eth gly Eth gly Eth gly		Shimkin, Proc. Soc. Exp. Biol. Med. <u>34:135</u> , 1936. Ibid Lehman, Q. Bull. Assoc. F. & D. Off. <u>15:122</u> , 1952. Shimkin, Proc. Soc. Exp. Biol. Med. <u>34:135</u> , 1936. Ibid Haag, J. Pharm. Exp. Ther. <u>43:193</u> , 1931.	1742

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1742	Rotenone (concluded)	Guinea pig Guinea pig Guinea pig Guinea pig Chicken	sc im ip ip or	MLD* MLD* MLD* MLD* MLD	16 7 2 15 996
1743	Rubidium chloride	Mouse	ip	LD ₅₀	1209
1744	Rubijervine	Mouse	iv	LD ₅₀	70
1745	Rutgers 612	Mouse Rat Guinea pig Chicken	or or or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	1.9 cc 1.4 cc 4.2 cc 2.5 cc
1746	Rutin	Mouse Mouse	iv iv	LD ₅₀ LD ₅₀	950 4000 ¹
1747	Ryania	Rat Rabbit	or ct	LD ₅₀ * LD ₅₀	750 >4000
1748	Sabadilla ²	Rat	or	LD ₅₀ *	4000
1749	Safrole	Rabbit Rabbit Rabbit	or sc iv	MLD* MLD* MLD	1000 1000 200
1750	Salicylaldehyde	Rat	sc	MLD	900-1000
1751	Salicylamide	Mouse Mouse Rat Rat Rat Rat Rat Rabbit	or iv or or or ip ip or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₁₀₀ LD ₅₀ LD ₅₀ *	1400 313 1400 ³ 2000 1200 1000-1500 600 3000
1752	Salicylcyclohexylamide	Rat	ip	LD ₅₀	13
1753	Salicyldicyclohexylamide	Rat	ip	LD ₅₀	2000
1754	Salicyldiethylamide	Rat	ip	LD ₅₀	350
1755	Salicyldimethylamide	Rat	ip	LD ₅₀	2000
1756	Salicylethylamide	Rat	ip	LD ₅₀	250
1757	Salicylhydroxyethylamide	Rat	ip	LD ₅₀	1500
1758	Salicylic acid	Frog Mouse Rat Guinea pig Guinea pig Rabbit Dog Dog Dog	sc sc sc sc ip or or sc ip	MLD LD ₅₀ MLD MLD MLD LD MLD LD LD	500-900 520 700 850 900 ⁴ 1100-1600 450-500 ⁴ 300-400 ⁴ 991 ⁴

/1/ Suspension. /2/ V. ratrine-like alkaloids. /3/ 20% suspension in H₂O. /4/ Sodium salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Eth gly Eth gly Eth gly Eth gly		Haag, J. Pharm. Exp. Ther. <u>43</u> :193, 1931. Ibid Ibid Shimkin, Proc. Soc. Exp. Biol. Med. <u>34</u> :135, 1936. Cutkomp, J. Pharm. Exp. Ther. <u>77</u> :238, 1943.	1742
			Alles, Univ. Cal. Publ. Pharmacol. <u>1</u> :187, 1939.	1743
			Krayer, J. Pharm. Exp. Ther. <u>82</u> :167, 1944.	1744
			Draize, J. Pharm. Exp. Ther. <u>93</u> :26, 1951. Ibid Ibid Ibid	1745
	Prop gly H ₂ O	3 da	Harrison, J. Am. Pharm. Assoc. <u>39</u> :557, 1950. Ibid	1746
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951. Ibid, <u>16</u> :3, 1952.	1747
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951.	1748
			Heffter, Arch. exp. Path. Pharm. <u>35</u> :342, 1895. Ibid Ibid	1749
			Binet, Rev. méd. Suisse rom. <u>15</u> :561, 1895.	1750
	H ₂ O G traga	24 hr 24 hr	Hart, J. Pharm. Exp. Ther. <u>89</u> :205, 1947. Litter, J. Pharm. Exp. Ther. <u>101</u> :119, 1951. Hart, J. Pharm. Exp. Ther. <u>89</u> :205, 1947. Ichniowski, J. Am. Pharm. Assoc. <u>35</u> :225, 1946. Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953. Ichniowski, J. Am. Pharm. Assoc. <u>35</u> :225, 1946. Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953. Hart, J. Pharm. Exp. Ther. <u>89</u> :205, 1947.	1751
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1752
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1753
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1754
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1755
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1756
			Way, J. Pharm. Exp. Ther. <u>108</u> :450, 1953.	1757
			Binet, Rev. méd. Suisse rom. <u>15</u> :561, 1895. Hanzlik, Arch. int. pharmacod. <u>38</u> :9, 1930. Binet, Rev. méd. Suisse rom. <u>15</u> :561, 1895. Ibid Flury, Abderhalden's Hdb. <u>4</u> .7b:1392. Ibid Ibid Ibid Ibid	1758

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1759	Salicylmethylamide	Rat	ip	LD ₅₀	350
1760	Salicylphenylethylamide	Rat	ip	LD ₅₀	1500
1761	Salicyl-n-propylamide	Rat	ip	LD ₅₀	250
1762	Salicyluric acid (sodium salt)	Mouse	sc	LD ₅₀	1130
		Rat	sc	LD ₅₀	3000
1763	Salyrgan	Mouse	im	LD ₅₀	97.4±5.4
		Mouse	iv	LD ₅₀	72.6±5.1
		Rat	im	LD ₅₀	24.1±1.9
		Rat	iv	LD ₅₀	17.7±1.7
		Rabbit	im	LD ₅₀	24.5±2.1
		Rabbit	iv	MLD	7-15
1764	Samarium nitrate	Frog	sc	MLD	1600
		Guinea pig	sc	MLD	500
1765	Sanochrysine	Frog	sc	LD	50
		Mouse	sc	MLD	100-300
		Mouse	iv	LD	150
		Rat	sc	LD	100
		Rat	sc	LD	30
		Rat	iv	LD	80
		Guinea pig	iv	LD	40
		Rabbit	iv	LD	75
		Rabbit	iv	LD	100
		Rabbit	iv	LD	64.8
		Rabbit	iv	LD	389
		Rabbit	iv	LD	58.8
1766	Santonin	Mouse	sc	LD	250-400
		Rabbit	or	LD	3000 ¹
		Rabbit	sc	LD	1000 ¹
		Rabbit	iv	LD	200 ¹
		Dog	sc	MLD	100
1767	Santowhite	Rat?	ip	LD ₅₀	5000
1768	Saponin(s) ²	Mouse	or	LD	3000
		Mouse	sc	LD	300
		Mouse	iv	LD	1000
		Rabbit	iv	LD	40
		Cat	iv	LD	46
1769	Sapotoxin ³	Mouse	or	LD	1000
		Mouse	sc	LD	80
		Mouse	iv	LD	20
		Rabbit	or	LD	56-62
		Rabbit	sc	LD	40
		Rabbit	iv	LD	15
		Dog	or	LD	20-25
		Dog	sc	LD	25
		Dog	iv	LD	2.5

/1/ Sodium salt. /2/ From Sapindus. /3/ From Agrostemma.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Way, J. Pharm. Exp. Ther. <u>108:450</u> , 1953.	1759
			Way, J. Pharm. Exp. Ther. <u>108:450</u> , 1953.	1760
			Way, J. Pharm. Exp. Ther. <u>108:450</u> , 1953.	1761
			Hanzlik, Arch. int. pharmacod. <u>8:30</u> , 1916. Ibid	1762
			Robbins, J. Am. Pharm. Assoc. <u>40:249</u> , 1951. Ibid Ibid Ibid Ibid Möller, Arch. exp. Path. Pharm. <u>148:67</u> , 1930.	1763
			Steidle, Arch. exp. Path. Pharm. <u>145:19</u> , 1929. Ibid	1764
		24 hr* 7 da 24 hr Sev da 7 da 4 da 7 da 14 da 5 hr 15 da	Schlossmann, Heffter's Hdb. 3, 3:2134. Kurosui, Zschr. ges. exp. Med. <u>57:77</u> , 1927. Schlossmann, Heffter's Hdb. 3, 3:2134. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid	1765
	Oil		Flury, Abderhalden's Hdb. <u>4.7b:1394</u> . Ibid Ibid Ibid Harnack, Arch. exp. Path. Pharm. <u>45:272, 447</u> , 1901.	1766
			Mallette, Arch. Ind. Hyg. Occ. Med. <u>5:311</u> , 1952.	1767
		1 da 5 da 1 da	Flury, Abderhalden's Hdb. <u>4.7b:1394</u> . Ibid Ibid Ibid Ibid	1768
		1 da 2 da 1 da Sev da 2-3 da 15 hr	Flury, Abderhalden's Hdb. <u>4.7b:1394</u> . Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid	1769

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1770	Sarin	Frog ¹	sc	LD ₅₀ [*]	6
1771	Sarmentoside A ³	Cat	iv	LD ₅₀	0.0890
1772	Sarmentoside A monoacetate	Cat	iv	LD ₅₀	3.616
1773	Sarmentoside C	Cat	iv	LD ₅₀	0.0963
1774	Sarmol	Mouse	or	LD ₅₀	25.000
1775	Sarmutoside	Cat	iv	LD ₅₀	0.4776
1776	Sarnovide	Cat	iv	LD ₅₀	0.1489
1777	Sarverogenin	Cat	iv	LD ₅₀	0.5186
1778	Scillaren	Frog	sc	LD	0.8-1.1
		Rat	sc	LD	10
		Rabbit	or	LD	0.9
		Rabbit	sc	LD	0.7
		Rabbit	iv	LD	0.45
		Cat	iv	LD	0.18-0.62
1779	Scillarenin	Cat	iv	LD ₅₀	0.1567
1780	Scopolamine	Mouse	sc	LD ₅₀	1700
		Mouse	sc	LD ₅₀	5875 ⁴
1781	Seconal sodium	Frog	sc	MLD	90
		Frog	iv	MLD	130
		Mouse	sc	MLD	160
		Mouse	ip	MLD	140
		Mouse	iv	MLD	80
		Rat	or	MLD	125
		Rat	sc	MLD	140
		Rat	ip	MLD	110
		Rat	iv	MLD	35
		Guinea pig	sc	MLD	60
		Guinea pig	ip	MLD	40
		Guinea pig	iv	MLD	35
		Rabbit	sc	MLD	90
		Rabbit	ip	MLD	50
		Rabbit	iv	MLD	45
		Cat	or	LD ₅₀	50
		Cat	ip	MLD	75
		Cat	iv	MLD	50
		Dog	or	MLD	90
1782	Sedormid	Mouse	or	LD	600
		Rat	or	LD	600
		Guinea pig	or	LD	600
		Rabbit	or	LD	1250
		Dog	or	LD	300
1783	Selenium oxychloride	Rabbit	ct	LD	<7
1784	Serotonin (continued on next page)	Mouse	sc	LD ₅₀	>868
		Mouse	iv	LD ₅₀	160

/1/ Bullfrog. /2/ Leopold-Löwenthal. /3/ Crude crystallate. /4/ Hydrobromide.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Wilber, Science <u>120</u> :322, 1954.	1770
0.0615-0.1418	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1771
3.313-4.287	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1772
0.0772-0.1334	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1773
			Lowenthal, Wien med. wscr. <u>101</u> :61, 1951.	1774
0.3087-0.7653	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1775
0.0961-0.1973	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1776
0.2038-1.296	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1777
			Lendle, Heffter's Hdb. <u>E</u> .1:78.	1778
			Ibid	
			Ibid	
			Ibid	
			Ibid	
0.1174-0.2248	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	1779
			Molitor, J. Pharm. Exp. Ther. <u>56</u> :85, 1936.	1780
			Co Tui, Am. J. Pharm. <u>117</u> :319, 1915.	
			Swanson, J. Am. Pharm. Assoc. <u>26</u> :1248, 1937.	1781
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Krop, J. Pharm. Exp. Ther. <u>88</u> :260, 1946.	
			Swanson, J. Am. Pharm. Assoc. <u>26</u> :1248, 1937.	
			Ibid	
			Ibid	
			Domole, Deut. med. Wschr. <u>54</u> :1166, 1928.	1782
			Ibid	
			Ibid	
			Ibid	
			Ibid	
			Dudley, Pub. Health Rpt. <u>53</u> :94, 1938.	1783
151-169			Freyburger, J. Pharm. Exp. Ther. <u>105</u> :8C, 1952.	1784
			Ibid	

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1784	Serotonin (concluded)	Rat	sc	LD ₅₀ *	117
		Rat	iv	LD ₅₀	30
1785	Silver nitrate	Rabbit	iv	LD	8-96
1786	Shatoh	Frog	sc	LD	1000
1787	Skiodan	Mouse	iv	MLD	7500
		Rabbit	iv	MLD	8000
		Dog	iv	MLD*	8000
1788	Sn 198	Rat	iv	LD ₅₀	46
1789	Sn 216	Rat	iv	LD ₅₀	38.4
1790	Snake venoms				
	Ancistrodon blomhoffi	Mouse	sc	LD ₁₀₀	33
	Ancistrodon halys	Mouse	sc	LD ₁₀₀	9
	Ancistrodon mokasen	Mouse	sc	LD ₁₀₀	53
	Ancistrodon piscivorus	Mouse	sc	LD ₁₀₀	45
	Bothrops altomata	Mouse	sc	LD ₁₀₀	23
	Bothrops atrox	Mouse	sc	LD ₁₀₀	31
	Bothrops cobiera	Mouse	sc	LD ₁₀₀	15
	Bothrops itapatiningae	Mouse	sc	LD ₁₀₀	25
	Bothrops jararaca	Mouse	sc	LD ₁₀₀	7
	Bothrops jararacassu I	Mouse	sc	LD ₁₀₀	9
	Bothrops jararacassu II	Mouse	sc	LD ₁₀₀	26
	Bothrops neuwiedii	Mouse	sc	LD ₁₀₀	14
	Bothrops insularis	Mouse	sc	LD ₁₀₀	19
	Crotalus adamantus	Rat	ip	MLD	25
		Rat	ip	MLD	2
		Guinea pig	ip	MLD	0.4
		Rabbit	ip	MLD	0.4
	Crotalus atrox	Mouse	sc	LD ₁₀₀	19
	Crotalus basiliscus	Mouse	sc	LD ₁₀₀	4
	Crotalus horridus	Mouse	sc	LD ₁₀₀	36
	Crotalus terrificus	Mouse	sc	LD ₁₀₀	1.1
	Lachesis muta	Mouse	sc	LD ₁₀₀	57
	Micruis frontalis	Mouse	sc	LD ₁₀₀	2.5
	Sistrurus catenatus	Mouse	sc	LD ₁₀₀	9
	Trimeresurus anamallensis	Mouse	sc	LD ₁₀₀	29
	Trimeresurus fleuroviridis	Mouse	sc	LD ₁₀₀	16
1791	Sodium acetate	Mouse	iv	LD ₅₀	380
1792	Sodium acetylsalicylate	Mouse	or	LD ₅₀	1100
		Rat	or	LD ₅₀	1500
		Rabbit	or	LD ₅₀	1800
1793	Sodium arsenate	Frog	or	LD	600
		Frog	sc	LD	200
		Rat	ip	MLD	34.7-44.6
1794	Sodium arsenite	Mouse ¹	sc	LD ₅₀	12.3±7.0
	(continued on next page)	Mouse ^o	sc	LD ₅₀	11.2±4.3
		Mouse ^q	sc	LD ₅₀	12.5±5.0

/1/ Various strains.

Compound	Animal	Route	Dose	Dosage mg/kg
				Value
1794 Sodium arsenite (concluded)	Mouse♂	sc	LD ₅₀	9.8±0.59
	Mouse♂	sc	LD ₅₀	12.0±0.55
	Mouse♂	sc	LD ₅₀	10.5±0.37
	Mouse♂	sc	LD ₅₀	7.0±0.55
	Mouse♂	iv	LD ₅₀	10.7±0.42
	Rat	ip	MLD	9.6- 0.7
1795 Sodium azide	Rat	or	LD ₁₀₀	46-60
	Rat	sc	LD ₁₀₀	38
	Rat	ip	LD ₁₀₀	37
1796 Sodium benzoate	Rat	or	LD ₅₀	4070
1797 Sodium bismuthate	Rat	or	LD ₁₀₀	720
	Rat	im	LD ₁₀₀	250
	Rat	iv	LD ₅₀	11.5
	Rat	iv	LD ₁₀₀	25
	Rabbit	or	LD ₁₀₀	510
	Rabbit	im	LD ₁₀₀	110
	Rabbit	iv	LD ₅₀	6
	Rabbit	iv	LD ₁₀₀	9
	Cat	or	LD ₁₀₀ *	200
	Dog	or	LD ₁₀₀ *	200
1798 Sodium bismuth thioglycolate	Rat	ip	MLD	26.2-31.4
	Guinea pig	ip	MLD	26.2-31.4
	Rabbit	im	MLD*	26.2-31.4
	Rabbit	iv	MLD	20.9-26.2
1799 Sodium bisulfite	Mouse	iv	LD ₅₀	130±8
	Rat	iv	LD ₅₀	115±10
	Rabbit	iv	LD ₅₀	65
	Hamster	iv	LD ₅₀	95±6
1800 Sodium bromate	Guinea pig	sc	MLD	100
	Rabbit	or	MLD	250-580
	Rabbit	iv	MLD	360
	Dog	sc	MLD	120
	Dog	sc	MLD	320
1801 Sodium bromide	Rat	or	LD ₅₀	3500
	Rat	iv	MLD	1800
	Rabbit	or	MLD	3250
1802 Sodium cacodylate	Mouse	sc	LD	1250
	Rabbit	sc	LD	500
	Rabbit	iv	LD	250-400
	Chicken	im	LD	830
1803 Sodium chaulmoograte	Rat	sc	LD	2000
	Rat	iv	LD	200-300
1804 Sodium chlorate	Rat	or	LD	12,000
	Rat	ip	LD	6000
	Rabbit	or	LD	8,000-12,000

(continued on next page)

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Beck, Proc. Soc. Exp. Biol. Med. <u>78</u> :392, 1951. Ibid Ibid Ibid Franke, J. Pharm. Exp. Ther. <u>58</u> :454, 1936.	1794
		3 hr 3 hr 3 hr	Fairhall, Pub. Health Rpt. <u>58</u> :607, 1943. Ibid Ibid	1795
3720-4440			Smyth, J. Ind. Hyg. Tox. <u>30</u> :63, 1948.	1796
		7 da 72 hr 24 hr 72 hr 24 hr	Hanzlik, J. Pharm. Exp. Ther. <u>62</u> :372, 1938. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid	1797
			Gruhzit, Arch. Derm. Syph. <u>15</u> :550, 1927. Ibid Ibid	1798
			Hoppe, J. Pharm. Exp. Ther. <u>101</u> :101, 1951. Ibid Ibid	1799
		8 hr 12 hr 2½ hr 1 wk 12 hr	Santesson, Skand. Arch. Physiol. <u>30</u> :337, 1913. Ibid Ibid Ibid Ibid	1800
		48 hr	Smyth, J. Pharm. Exp. Ther. <u>55</u> :200, 1935. Loeser, J. Lab. Clin. Med. <u>15</u> :35, 1929. Bernoulli, Arch. exp. Path. Pharm. <u>73</u> :355, 1913.	1801
			Heffter, Heffter's Hdb. <u>3</u> .1:503. Keeser, Heffter's Hdb. <u>E</u> .3:178. Heffter, Heffter's Hdb. <u>3</u> .1:503. Ibid	1802
			Anderson, Int. J. Leprosy <u>2</u> :39, 1934. Ibid	1803
			Ulrich, J. Pharm. Exp. Ther. <u>35</u> :1, 1929. Ibid Stokuis, Arch. exp. Path. Pharm. <u>21</u> :169, 1886.	1804

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1804	Sodium chlorate (concluded)	Cat	or	LD	1350-1940
		Cat	sc	LD	1000
		Dog	or	LD	700
		Dog	ip	LD	12,000
		Dog	iv	LD	1000 ¹
1805	Sodium chloride	Mouse	ip	LD ₅₀	3096
		Rat ²	sc	MLD	3500
		Rat	ip	LD	5000
		Rat	iv	MLD	2500
		Guinea pig	iv	MLD ³	2910 ³
1806	Sodium chromate	Guinea pig	sc	LD	20-30
		Rabbit	sc	LD	243
		Rabbit	iv	LD	97-162
		Rabbit	iv	LD	19.4-32
		Dog	iv	LD	145.8-162
1807	Sodium citrate (Mono-), $\text{NaH}_2(\text{C}_6\text{H}_5\text{O}_7) \cdot 7\text{H}_2\text{O}$	Mouse	ip	LD ₅₀	1760
		Mouse	iv ⁴	LD ₅₀	53.4
		Rat	ip	LD ₅₀	1460
		Rabbit	iv ⁵	LD ₅₀	410
1808	Sodium citrate (Di-), $\text{Na}_2\text{H}(\text{C}_6\text{H}_5\text{O}_7) \cdot 7\text{H}_2\text{O}$	Mouse	ip	LD ₅₀	2680
		Mouse	iv ⁴	LD ₅₀	107
		Rat	ip	LD ₅₀	2620
		Rabbit	iv ⁵	LD ₅₀	630
1809	Sodium citrate (Tri-), $\text{Na}_3(\text{C}_6\text{H}_5\text{O}_7) \cdot 2\text{H}_2\text{O}$	Mouse	ip	LD ₅₀	1615
		Mouse	iv ⁴	LD ₅₀	194
		Rat	ip	LD ₅₀	1760
		Rabbit	iv ⁵	LD ₅₀	510
1810	Sodium cyanate	Rat	im	LD ₅₀	310±5
1811	Sodium cyanide	Frog	sc	MLD	60-65
		Mouse	sc	MLD	10
		Rabbit	sc	MLD	2.2
		Dog	iv	LD	2.8-29.06
1812	Sodium dehydroacetate	Rat	or	LD ₅₀ [*]	645
1813	Sodium dichromate	Frog	iv	LD	172.8
		Mouse	iv	LD	52.4
		Guinea pig	sc	LD	51
		Rabbit	iv	LD	36.7
		Rabbit	iv	LD	38.7-59.6
		Rabbit	iv	LD	179-298
		Dog	iv	LD	357.6-417.2
1814	Sodium fluoride	Frog	sc	MLD	400
		Mouse	or	LD	80
		Mouse	sc	LD	70
		Mouse	ip	LD	125
		Rat	or	LD ₅₀	200
	(continued on next page)	Rat	sc	MLD	125

/1/ 5% solution in H₂O rapidly injected. /2/ Young animals. /3/ 10% solution in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	H ₂ O	2½-5 hr Sev da 5½ hr 67 min 10 min	Lipschitz, Arch. exp. Path. Pharm. 144:570, 1932. Becker, Arch. exp. Path. Pharm. 201:197, 1943. Flury, Abderhalden's Hdb. 4. 7b:1328. Marchana, Arch. exp. Path. Pharm. 22:201, 1886. Flury, Abderhalden's Hdb. 4. 7b:1324.	1804
	H ₂ O		Alles, Univ. Cal. Pub. Pharmacol. 1:187, 1939. Main, Endocrinology 24:523, 1939. Ulrich, J. Pharm. Exp. Ther. 35:1, 1929. Loeser, J. Lab. Clin. Med. 15:35, 1929. Amberg, J. Pharm. Exp. Ther. 6:595, 1915.	1805
		45 min 5-7 hr 2-4 da 78 min	Flury, Abderhalden's Hdb. 4. 7b:1330. Eichler, Heffter's Hdb. 3. 3:1520. Ibid Ibid Ibid	1806
			Gruber, J. Pharm. Exp. Ther. 94:65, 1948. Ibid Ibid Ibid	1807
			Gruber, J. Pharm. Exp. Ther. 94:65, 1948. Ibid Ibid Ibid	1808
			Gruber, J. Pharm. Exp. Ther. 94:65, 1948. Ibid Ibid Ibid	1809
			Birch, Brit. J. Pharm. 1:186, 1946.	1810
		½-1 hr	Fühner, Arch. exp. Path. Pharm. 166:455, 1932. Ibid Chen, J. Am. Med. Assoc. 100:1920, 1933. Lawrence, Fed. Proc. 6:349, 1947.	1811
			Spencer, J. Pharm. Exp. Ther. 98:30, 1950.	1812
		2-5 da 5-7 hr 3¼-2 hr	Cavalli, Arch. int. pharmacod. 62:330, 1939. Ibid Flury, Abderhalden's Hdb. 4. 7b:1330. Cavalli, Arch. int. pharmacod. 62:330, 1939. Eichler, Heffter's Hdb. 3. 3:1520. Ibid Ibid	1813
		32 min	Simonin, C. rend. Soc. biol. 124:133, 1937. Schulz, Dissert., Hamburg 1936. Ibid Flury, Abderhalden's Hdb. 4. 7b:1349. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Muehlberger, J. Pharm. Exp. Ther. 39:247, 1930.	1814

/4/ Rapid injection. /5/ Slow injection. /6/ Depending on rate of injection.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1814	Sodium fluoride (concluded)	Rat	ip	MLD	28-35
		Guinea pig	or	MLD	250
		Guinea pig	sc	MLD	400
		Rabbit	or	MLD	100-200
		Rabbit	or	MLD	200
		Rabbit	iv	LD	87.5
		Cat	sc	LD	13.7
		Dog	or	MLD	50-100
		Dog	sc	LD	150-160
		Dog	im	MLD	31-50
		Dog	iv	MLD	80
1815	Sodium-γ-fluorocrotonate	Frog	sc	LD ₅₀	25
		Mouse	iv	LD ₅₀	1
		Rat	ip	LD ₅₀	1
		Rabbit	iv	LD ₅₀	0.15
		Dog	iv	LD ₅₀	0.05-0.07
		Monkey ¹	iv	LD ₅₀	2.5
1816	Sodium formaldehyde sulfoxylate	Mouse	sc	LD	4000
		Rat	or	LD	>1000
		Rat	iv ²	LD	>2000
1817	Sodium fumarate	Rat	or	MLD ⁴	8000
		Rabbit	iv	MLD ⁴	500
1818	Sodium hexametaphosphate	Mouse	or	LD	>100
		Dog ³	iv	LD ⁴	140
1819	Sodium hydriocarpate	Rat	sc	MLD ⁴	2000
		Rat	iv	MLD	100-125
1820	Sodium hydroxide	Rabbit	or	LD	535 ⁴
		Rabbit	or	LD	577 ⁴
		Rabbit	or	LD	625 ⁴
		Rabbit	or	LD	833 ⁵
		Rabbit	or	LD	500 ⁶
		Rabbit	or	LD	943 ⁶
1821	Sodium hydroxymercuribenzoate ⁷	Rat	ip	LD ₅₀	15.5
1822	Sodium hydroxymercuribenzoate ⁸	Rat	ip	LD ₅₀	4.96
1823	Sodium salt of o-(N-γ-hydroxymercuri-β-hydroxyethoxypropyl-carbamyl)phenoxyacetic acid	Mouse	im	LD ₅₀	117.9±8.1
		Mouse	iv	LD ₅₀	112.9±10.8
		Rat	im	LD ₅₀	34.8±4.4
		Rat	iv	LD ₅₀	32.2±2.8
		Rabbit	im	LD ₅₀	26.2±4.1
1824	Sodium iodate	Rabbit	iv	LD	75-100
		Dog	iv	LD	200
1825	Sodium iodide	Rat	iv	MLD	1300
1826	Sodium iodomethionate	Mouse	iv	LD	10,000

/1/Rhesus. /2/Slow injection. /3/Young animals. /4/2% solution. /5/3% solution. /6/10%

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		2 hr	Roholm, Heffter's Hdb. E. 7:27. Simonin, C. rend. Soc. biol. 124:133, 1937. id Roholm, Heffter's Hdb. E. 7:27. Muehlberger, J. Pharm. Exp. Ther. 39:247, 1930. Leake, J. Pharm. Exp. Ther. 33:279, 1928. Flury, Abderhalden's Hdb. 4. 7b:1349. Roholm, Heffter's Hdb. E. 7:27. Flury, Abderhalden's Hdb. 4. 7b:1349. Roholm, Heffter's Hdb. E. 7:27. Ibid	1814
			Chenoweth, J. Pharm. Exp. Ther. 97:383, 1949. Ibid Ibid Ibid Ibid	1815
			Rosenthal, Pub. Health Rpt. 49:908, 1934. Ibid, 48:1543, 1933. Ibid, 49:908, 1934.	1816
			Levey, J. Am. Pharm. Assoc. 35:298, 1946. Bodansky, J. Am. Pharm. Assoc. 31:1, 1942.	1817
			Behrens, Arch. exp. Path. Pharm. 169:238, 1933. Ibid	1818
			Anderson, Int. J. Leprosy 2:39, 1934. Ibid	1819
		3½ da 26 hr 12 hr 7 hr 14½ da 10½ da	Fazekas, Arch. exp. Path. Pharm. 184:587, 1937. Ibid Ibid Ibid Ibid Ibid	1820
		8 da	Haley, J. Am. Pharm. Assoc. 36:30, 1947.	1821
		8 da	Haley, J. Am. Pharm. Assoc. 36:30, 1947.	1822
			Robbins, J. Am. Pharm. Assoc. 40:249, 1951. Ibid Ibid Ibid	1823
			Maxwell, J. Pharm. Exp. Ther. 40:451, 1930. Flury, Abderhalden's Hdb. 4. 7b:1359.	1824
			Loeser, J. Lab. Clin. Med. 15:35, 1929.	1825
			Binz, Biochem. Zschr. 252:16, 1932.	1826

solution. /7/Ortho salt. /8/Para salt.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1827	Sodium DL-malate	Cat	sc	LD*	3300
		Dog	sc	LD	1730
1828	Sodium L-malate	Rabbit	or	LD	6600
		Rabbit	sc	LD	4000
		Rabbit	sc	LD	2330
		Dog	sc	LD	2770
1829	Sodium malonate	Mouse	iv	LD ₅₀	2100
		Rat	ip	LD ₅₀	2500
1830	Sodium metaphosphate	Rabbit	iv	MLD	130
1831	Sodium metavanadate	Rabbit	or	LD	200
		Rabbit	iv	LD	17
		Dog	sc	LD	17
		Dog	iv	LD	11
1832	Sodium molybdate	Rat	ip	MLD	285-292
1833	Sodium nitrate	Frog	sc	MLD	450
		Rat ¹	or	MLD	1100-2000
		Rat ²	or	MLD	460-1200
		Rat ¹	or	MLD	190-200
		Rat ²	or	MLD	57-130
1834	Sodium nitrite	Frog	sc	LD	1000
		Rat	sc	MLD	10-20
		Rabbit	sc	MLD	60
		Rabbit	sc	LD ₁₀₀	170
		Rabbit	iv	MLD	80-90
		Cat	sc	LD ₁₀₀	35
		Dog	or	MLD	330
		Dog	sc	MLD	50-70
1835	Sodium nitroprusside	Frog	sc	LD ₁₀₀	40-160
		Mouse	sc	MLD	9.5
		Mouse	sc	MLD	12
		Guinea pig	iv	MLD	100-200
		Rabbit	or	LD ₁₀₀	250
		Rabbit	sc	MLD	4.8
		Cat	sc	LD ₁₀₀	50
		Cat	iv	LD ₁₀₀ ²	1
		Dog	or	MLD	200
		Dog	sc	LD ₁₀₀	80
		Dog	iv	LD ₁₀₀ ²	1
		Pigeon	sc	MLD	10-12
1836	Sodium orthophosphate ¹	Mouse	or	LD	>100
		Rabbit	iv	MLD	4250
		Dog	iv	LD	>240
1837	Sodium oxalate	Frog	sc	MLD	800 ²
		Frog	sc	MLD	480-600 ²
		Mouse	sc	MLD	100-200

1/1/ Primary. 2/2/ Dose not related to unit weight by source.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		24 hr	Wise, J. Biol. Chem. <u>28</u> :185, 1916. Tomita, Biochem. Zschr. <u>123</u> :231, 1921.	1827
		12 hr 3 hr 8 hr 12 hr	Otha, Biochem. Zschr. <u>44</u> :481, 1912. Tomita, Biochem. Zschr. <u>123</u> :231, 1921. Ibid Otha, Biochem. Zschr. <u>44</u> :481, 1912.	1828
			Gruber, Arch. int. pharmacod. <u>79</u> :461, 1949. Ibid	1829
			Jones, J. Am. Water Works Assoc. <u>32</u> :1471, 1940.	1830
		12 hr+ Few min	Lendle, Heffter's Hdb. <u>3</u> , 3:1541. Ibid Ibid Ibid	1831
			Fairhall, Pub. Health Bull. <u>293</u> , 1945.	1832
			Orestano, Arch. ital. farm. <u>6</u> :153, 1937. Tarr, J. Fish. Res. Board Can. <u>6</u> :63, 1942. Ibid Ibid Ibid	1833
		2-3 hr	Flury, Abderhalden's Hdb. <u>4</u> , 7b:1372. Becker, Arch. exp. Path. Pharm. <u>201</u> :197, 1943. Flury, Abderhalden's Hdb. <u>4</u> , 7b:1372. Hesse, Arch. exp. Path. Pharm. <u>126</u> :209, 1927. Ottman, J. Pharm. Exp. Ther. <u>41</u> :121, 1931. Hesse, Arch. exp. Path. Pharm. <u>126</u> :209, 1927. Flury, Abderhalden's Hdb. <u>4</u> , 7b:1372. Dossin, Arch. int. pharmacod. <u>21</u> :425, 1911.	1834
		48 hr	Johnson, Arch. int. pharmacod. <u>35</u> :480, 1929. Ibid Hunt, Arch. int. pharmacod. <u>12</u> :447, 1904. Gibbs, Am. Chem. J. <u>13</u> :361, 1891. Johnson, Arch. int. pharmacod. <u>35</u> :480, 1929. Ibid Ibid Ibid Gibbs, Am. Chem. J. <u>13</u> :361, 1891. Johnson, Arch. int. pharmacod. <u>35</u> :480, 1929. Ibid Ibid	1835
			Behrens, Arch. exp. Path. Pharm. <u>169</u> :238, 1933. Jones, J. Am. Water Works Assoc. <u>32</u> :1471, 1940. Behrens, Arch. exp. Path. Pharm. <u>169</u> :238, 1933.	1836
			Vietinghoff-Scheel, Arch. int. pharmacod. <u>8</u> :225, 1901. Heymans, Dubois' Arch. f. Physiol. <u>13</u> :168, 1889. Vietinghoff-Scheel, Arch. int. pharmacod. <u>8</u> :225, 1901.	1837

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1837 Sodium oxalate (concluded)	Rabbit	im	LD ₁₀₀	200
	Cat	sc	LD	100
	Cat	sc	LD	300
1838 Sodium permanganate	Rabbit	iv	LD	54.8
1839 Sodium persulfate	Rabbit	iv	MLD	178
1840 Sodium phosphate (acid)	Rat	ip	LD ₅₀	250
1841 Sodium phthalate	Mouse	ip	LD ₅₀	2100
1842 Sodium pyrophosphate	Mouse	or	LD*	40
	Rabbit	iv	MLD	70
	Dog	iv	MLD	50
1843 Sodium rhenate	Rat	ip	MLD	1350-1500
1844 Sodium salicylate	Mouse	or	LD ₅₀	900
	Mouse	sc	LD ₅₀	520
	Rat	or	LD ₅₀	1600
	Rat	sc	LD ₅₀	650
	Guinea pig	ip	LD	900
	Rabbit	or	LD ₅₀	1700
	Cat	sc	LD ₁₀₀	800-1000
	Dog	or	LD	450-500
	Dog	sc	LD	300-400
	Dog	sc	LD	940
	Dog	ip	LD	941
1845 Sodium selenate	Rat	ip	MLD	13.8
	Rat	iv	LD ₅₀	3-4
	Rabbit	or	LD ₁₀₀	4
	Rabbit	iv	LD ₁₀₀	2.5
1846 Sodium selenite	Rat	ip	MLD	7.2-7.7
	Rat	iv	LD ₅₀	3
	Rabbit	or	LD ₁₀₀	4
	Rabbit	iv	LD ₁₀₀	1.5
	Dog	sc	LD	4
	Dog	iv ¹	LD	3
	Dog	iv ²	LD	90
1847 Sodium silicofluoride	Frog	sc	MLD	400
	Rat	or	LD ₅₀ *	125
	Rat	sc	MLD	70
	Guinea pig	or	MLD	250
	Guinea pig	sc	MLD	500
	Rabbit	or	MLD	125
	Rabbit	sc	MLD	74-149
	Rabbit	iv	LD	6.06
1848 Sodium sorbate	Rat	or	LD ₅₀	7160
1849 Sodium succinate (Mono-)	Cat	iv	MLD*	2000 ³
1850 Sodium succinate (Di-)	Mouse	iv	LD ₅₀	4500*

/1/ Rapid injection. /2/ Slow injection. /3/ Isotonic solution. /4/ 30% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
		Sevda Rapid	Gates, J. Pharm. Exp. Ther. 9:353, 1917. Hofbauer, Dissert., Würzburg 1933. Ibid	1837
		50-60 hr	Sabatini, Ber. Phys. med. Ges. 49:276, 1928.	1838
			DeVal, Arch. int. sc. farm. 2:445, 1933.	1839
			Boyd, Exp. Med. Surg. 4:223, 1951.	1840
			Hodge, Proc. Soc. Exp. Biol. Med. 49:471, 1942	1841
			Behrens, Arch. exp. Path. Pharm. 169:238, 1933. Jones, J. Am. Water Works. Assoc. 32:1471, 1940. Behrens, Arch. exp. Path. Pharm. 169:238, 1933.	1842
		1-1 hr	Maresh, Proc. Soc. Exp. Biol. Med. 45:576, 1940.	1843
			Hart, J. Pharm. Exp. Ther. 89:205, 1947. Hanzlik, J. Pharm. Exp. Ther. 38:9, 1930. Hart, J. Pharm. Exp. Ther. 89:205, 1947. Johnson, J. Pharm. Exp. Ther. 36:319, 1929. Flury, Abderhalden's Hdb. 4.7b:1392. Hart, J. Pharm. Exp. Ther. 89:205, 1947. Waddell, Arch. Int. Med. 8:784, 1911. Flury, Abderhalden's Hdb. 4.7b:1392. Ibid Ibid Ibid	1844
			Franke, J. Pharm. Exp. Ther. 58:454, 1936. Smith, J. Pharm. Exp. Ther. 60:449, 1937. Ibid Ibid	1845
			Franke, J. Pharm. Exp. Ther. 58:454, 1936. Smith, J. Pharm. Exp. Ther. 60:449, 1937. Ibid Ibid Flury, Abderhalden's Hdb. 4.7b:1397. Ibid Ibid	1846
		2 min	Simonin, C. rend. Soc. biol. 124:133, 1937. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Muehlberger, J. Pharm. Exp. Ther. 39:247, 1930. Simonin, C. rend. Soc. biol. 124:133, 1937. Ibid Muehlberger, J. Pharm. Exp. Ther. 39:247, 1930. Wieland, Arch. exp. Path. Pharm. 97:489, 1923. Marcovitch, J. Pharm. Exp. Ther. 34:179, 1928.	1847
6820-7520			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	1848
	H ₂ O		Friend, J. Am. Pharm. Assoc. 36:50, 1947.	1849
	H ₂ O		Zuckerbrod, Ann. Int. M. 32:905, 1950.	1850

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1851	Sodium sulfate	Mouse Rabbit Rabbit	iv iv iv	LD LD MLD	1220±90 4470 910?
1852	Sodium sulfide	Rabbit	iv	LD	6
1853	Sodium sulfite	Mouse Guinea pig Guinea pig Cat Cat Dog	iv sc iv sc iv sc	LD ₅₀ LD LD LD LD LD	175±6 600 200 1300-1600 400 1300-1600
1854	Sodium tartrate	Rat Rat Rabbit	or sc sc	LD ₅₀ MLD MLD	1290 3500 1000
1855	Sodium tellurate	Rat	ip	MLD	37.2-55.8
1856	Sodium tellurite	Rat	ip	MLD	3.8-4.3
1857	Sodium thiocyanate	Mouse Mouse Mouse Rat Rat Guinea pig Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit Dog Dog	or sc iv or ip or or sc ip ip or sc sc sc iv	LD ₅₀ LD LD ₅₀ LD ₅₀ LD ₅₀ LD MLD MLD MLD MLD MLD MLD MLD MLD MLD	598.4±18.3 400-600 483.5±9.3 764.7±50.9 540±42.5 600-800 ¹ 380 230 210 500 440 300 500 160 90
1858	Sodium thioglycollate	Rat Rabbit	ip iv	LD ₅₀ MLD*	148 100
1859	Sodium thiosulfate, Na ₂ S ₂ O ₃ ·5H ₂ O	Rat	iv	LD	>2500
1860	Sodium trimetaphosphate	Mouse Dog	or iv	LD LD	>100 240
1861	Sodium tungstate, Na ₂ WO ₄ ·2H ₂ O	Frog Rat Rat Guinea pig Guinea pig Rabbit Cat Cat Dog Dog	sc sc sc or sc sc or sc sc sc sc	MLD LD LD ₅₀ LD LD MLD LD MLD MLD MLD LD	568-994 563 223-255 990 810 78.1 190 2105.8 140.5 125

(continued on next page)

1/1 1.25-2.5% solution in H₂O

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Hoppe, J. Pharm. Exp. Ther. 161:101, 1951. Flury, Abderhalden's Hdb. 4.7b:1372. DaVal, Arch. ital. sc. farm. 2:445, 1933.	1851
			Flury, Abderhalden's Hdb. 4.7b:1396.	1852
			Hoppe, J. Pharm. Exp. Ther. 101:101, 1951. Flury, Abderhalden's Hdb. 4.7b:1396. Ibid Ibid Ibid	1853
			Levey, J. Am. Pharm. Assoc. 35:298, 1946. Flury, Abderhalden's Hdb. 4.7b:1372 Ibid	1854
			Franke, J. Pharm. Exp. Ther. 58:454, 1936.	1855
			Franke, J. Pharm. Exp. Ther. 58:454, 1936.	1856
	H ₂ O	1-4 1/2 da	Anderson, J. Am. Pharm. Assoc. 29:152, 1940. Flury, Abderhalden's Hdb. 4.7b:1351. Anderson, J. Am. Pharm. Assoc. 29:152, 1940. Ibid Krantz, Proc. Soc. Exp. Biol. Med. 74:321, 1950. Flury, Abderhalden's Hdb. 4.7b:1391. Carratala, Rev. Asoc. méd. argent. 58:861, 1944. Ibid Ibid Jahr, Arch. exp. Path. Pharm. 169:429, 1933. Carratala, Rev. Asoc. méd. argent. 58:861, 1944. Ibid Jahr, Arch. exp. Path. Pharm. 169:429, 1933. Carratala, Rev. Asoc. méd. argent. 58:861, 1944. Ibid	1857
		24 hr	Freeman, Fed. Proc. 11:347, 1952. Cohen, J. Pharm. Exp. Ther. 35:343, 1929.	1858
			Voegtlin, J. Pharm. Exp. Ther. 57:297, 1925.	1859
			Behrens, Arch. exp. Path. Pharm. 169:238, 1933. Ibid	1860
			Flury, Abderhalden's Hdb. 4.7b:1418. Ibid Kinard, Am. J. Med. Sc. 199:668, 1940. Pulewka, Heffter's Hdb. 3.4:2232. Ibid Flury, Abderhalden's Hdb. 4.7b:1418. Pulewka, Heffter's Hdb. 3.4:2232. Flury, Abderhalden's Hdb. 4.7b:1418. Ibid Pulewka, Heffter's Hdb. 3.4:2232.	1861

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1861	Sodium tungstate, Na ₂ WO ₄ · 2H ₂ O (concluded)	Chicken	sc	LD	400
1862	Sodium vanadate (ortho)	Rabbit	or	LD	100
		Pabbit	sc	LD	9-15
		Rabbit	iv	LD	20-30
1863	Sodium vanadite	Rat	ip	MLD	8.8-11.1
1864	Sodium zirconyl sulfate	Iat	or	LD ₅₀	10,000 ¹
		Rat	ip	LD ₅₀	4100 ¹
1865	Solanine	Rabbit	iv	LD	20-30
1866	Sorbic acid	Rat	or	LD ₅₀	7160
1867	Sparteine	Toad	sc	MLD*	375
		Mouse	sc	MLD	129 ²
		Rabbit	sc	MLD	100 ²
		Rabbit	iv	MLD	30 ²
		Pigeon	sc	MLD	86 ²
1868	Spergon	Rat	or	LD ₅₀ *	4000
		Rat	ip	LD ₅₀	500
1869	Sprintillamine	Mouse	sc	LD	1
		Mouse	sc	LD	2
		Rabbit	iv	LD	5-7
1870	Squill (red) ³	Rat	or	LD ₅₀	125±9.7
		Rat	or	LD ₅₀	175±24.3
		Rat	or	LD ₅₀	1500 ⁴
		Rat	or	LD ₅₀	1000 ⁵
		Rat ⁶	or	LD ₅₀	276±29
		Rat ⁶	or	LD ₅₀	133±10
1871	Squill (white) ⁷	Rat	or	LD ₅₀	10,000-15,000
1872	Stannic iodide	Rat	iv	MLD	200
1873	Stannous chloride	Dog	iv	LD	20-50
1874	Stovaine	Frog	sc	MLD	975
		Mouse	sc	MLD	170-520
		Rat	iv	MLD	25-30
		Guinea pig	sc	MLD	210
		Guinea pig	ip	MLD	230
		Guinea pig	iv	MLD	10-40
		Rabbit	sc	MLD	178
		Rabbit	iv	MLD	28.5
		Cat	iv	MLD	25-30 ⁸
1875	Streptomycin sulfate	Dog	sc	MLD	100-150
		Mouse	sc	LD ₅₀	970
1876	Stroboside	Cat	iv	LD ₅₀	0.2554

/1/ 25% solution in H₂O. /2/ Sulfate. /3/ Toxicity varies with age and specimen of drug rat. /7/ Cultivated. /8/ 2% solution.

Desage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Pulewka, Heffter's Hdb. 3.4:2232.	1861
		13 hr	Lendle, Heffter's Hdb. 3.3:1541. Ibid Ibid	1862
			Franke, J. Pharm. Exp. Ther. 58:454, 1936.	1863
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1864
			Flury, Abderhalden's Hdb. 4.7b:1398.	1865
6690-8900			Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	1866
		1 hr Few min	Heathcote, J. Pharm. Exp. Ther. 27:431, 1926. Zipf, Arch. exp. Path. Pharm. 200:536, 1942-43. Flury, Abderhalden's Hdb. 4.7b:1398. Ibid Ibid	1867
			McGavack, J. Ind. Hyg. Tox. 25:98, 1943. Ibid	1868
		60 min 30 min	Franzen, Arch. exp. Path. Pharm. 159:183, 1931. Ibid Ibid	1869
			Ligon, Fed. Proc. 9:295, 1950. Ibid Wokes, Q. J. Pharm. Pharmacol. 7:565, 1934. Ibid Dieke, Pub. Health Rpt. 61:672, 1946. Ibid	1870
			Wokes, Q. J. Pharm. Pharmacol. 7:565, 1934.	1871
			Kolmer, J. Pharm. Exp. Ther. 43:515, 1931.	1872
		Instant	Flury, Abderhalden's Hdb. 4.7b:1421.	1873
	H ₂ O		Hirschfelder, Physiol. Rev. 12:262, 1932. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Hooper, Am. J. Physiol. 68:120, 1924. Hirschfelder, Physiol. Rev. 12:262, 1932.	1874
			Ambrose, Proc. Soc. Exp. Biol. Med. 76:456, 1951.	1875
0.1512-0.3721	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1876

and with species and sex of animals. /4/ Wild squill. /5/ Cultivated squill. /6/ Norway

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1877	Strontium acetate	Mouse	iv	LD	383
		Rat	iv	LD	238
1878	Strontium bromide	Rat	ip	LD ₅₀	1000
		Rat	iv	MLD	500
1879	Strontium chloride	Rat	iv	MLD	400
1880	Strontium fluoride	Frog	sc	MLD	>25,000
		Rat	iv	LD	625
		Guinea pig	or	MLD	>5000
		Guinea pig	sc	MLD	>5000
1881	Strontium iodide	Rat	ip	LD ₅₀	800
		Rat	iv	MLD	500
1882	Strontium lactate	Rat	ip	LD ₅₀	900
1883	Strontium nitrate	Rat	ip	LD ₅₀	540
1884	Strontium salicylate	Rat	ip	LD ₅₀	400
1885	K-Strophanthidin	Rabbit	iv	MLD	1.1
		Cat	iv	MLD	0.28
1886	Strophanthin G	Frog	sc	LD	0.4-1.0
		Mouse	sc	LD	8-13
		Rat	sc	LD	50-100
		Rat	iv ¹	LD	42.5
		Rat	iv ²	LD	17.2
		Guinea pig	sc	LD	0.1-0.3
		Guinea pig	im	LD ₅₀ *	0.26
		Rabbit	or	LD	8-20
		Rabbit	sc	LD	0.1-0.4
		Rabbit	iv	LD	0.1-0.2
		Cat	or	LD	2.4
		Cat	sc	LD	0.15-0.20
		Cat	iv	LD	0.15
		Cat	iv	LD	0.12
		Cat	iv	LD	0.09
		Dog	or	LD	1.5
		Dog	sc	LD	0.1-0.15
		Dog	iv	LD	0.125-0.175
1887	Strophanthin H	Guinea pig	sc	LD	0.2
		Rabbit	sc	LD	0.125
		Rabbit	iv	LD	0.2-0.4
1888	Strophanthin K (crystalline)	Frog	sc	LD	0.75-1.0
		Mouse	sc	LD	5-9
		Rat	sc	LD	60-90
		Rat	iv	LD ₅₀ *	15.1 ³
		Guinea pig	sc	LD	0.4
		Rabbit	or	LD	20
		Rabbit	sc	LD	0.5
		Rabbit	iv	LD	0.25

(continued on next page)

/1/ Slow injection. /2/ Rapid injection. /3/ Varies with rate of injection.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Cole, J. Pharm. Exp. Ther. <u>71:1</u> , 1941. Ibid	1877
		45 min	Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950. Loeser, J. Lab. Clin. Med. <u>15:35</u> , 1929.	1878
			Cole, J. Pharm. Exp. Ther. <u>71:1</u> , 1941.	1879
		60 hr	Simonin, C. rend. Soc. biol. <u>124:133</u> , 1937. Loeser, J. Lab. Clin. Med. <u>15:35</u> , 1929. Simonin, C. rend. Soc. biol. <u>124:133</u> , 1937. Ibid	1880
		45 min	Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950. Loeser, J. Lab. Clin. Med. <u>15:35</u> , 1929.	1881
			Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950.	1882
			Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950.	1883
			Cochran, Arch. Ind. Hyg. Occ. Med. <u>1:637</u> , 1950.	1884
			Neumann, Arch. exp. Path. Pharm. <u>185:328</u> , 1937. Ibid	1885
		30 min 60 min 90 min	Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid Heubner, Arch. exp. Path. Pharm. <u>177:60</u> , 1934. Ibid Lendle, Heffter's Hdb. <u>E. 1:78</u> . White, J. Pharm. Exp. Ther. <u>52:1</u> , 1934. Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid Flury, Abderhalden's Hdb. <u>4.7b:1401</u> . Lendle, Heffter's Hdb. <u>E. 1:78</u> . Maresh, Fed. Proc. <u>5:191</u> , 1946. Ibid Ibid Flury, Abderhalden's Hdb. <u>4.7b:1401</u> . Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid	1886
			Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid	1887
			Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid Mehnert, Arch. exp. Path. Pharm. <u>184:181</u> , 1936. Lendle, Heffter's Hdb. <u>E. 1:78</u> . Ibid Ibid Ibid	1888

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1888	Strophanthin K (crystalline) (concluded)	Cat	sc	LD	0.3
		Cat	iv	LD	0.13
		Dog	iv	LD	0.11
1889	Strophanthin K (amorphous)	Frog	sc	LD	1.1-3.0
		Mouse	sc	LD	25
		Rat	sc	LD	50-80
		Guinea pig	sc	LD	1
		Rabbit	or	LD	30
		Rabbit	sc	LD	1
		Rabbit	iv	LD	0.23
		Rabbit	iv	MLD	0.20
		Cat	iv	LD	0.17
		Cat	iv	MLD	0.16
		Dog	iv	LD	0.15
1890	Strychnine	Frog	sc	LD	0.35-2.1
		Mouse	sc	MLD	0.5-1.25
		Rat	or	MLD	5
		Rat	or	LD ₅₀ ¹	16.2
		Rat	sc	MLD	3 ¹
		Rat	im	MLD	2.5 ¹
		Rat	im	MLD	4
		Rat ²	ip	LD ₅₀	1.4-2.3
		Rat ²	ip	LD ₅₀	0.9-1.4
		Rat	iv	MLD	1.1
		Guinea pig	sc	LD	3.0-3.4
		Rabbit	or	LD	0.6-30
		Rabbit	sc	LD	0.4-1.0
		Rabbit	iv	LD	0.2-0.5
		Cat	or	LD	0.75
		Cat	sc	LD	0.75
		Cat	iv	LD	0.3-0.35
		Dog	or	LD	1.0-1.2
		Dog	or	LD	0.3-0.4
		Dog	sc	LD	0.3-0.4
		Dog	iv	LD	0.2-0.3
		Pigeon	or	LD	8.5-11.0
		Pigeon	sc	LD	1.0-1.5
		Chicken	sc	MLD	2.2
1891	Subtilin	Mouse	or	LD ₅₀	5000 ²
		Mouse	sc	LD ₅₀	670±30 ²
		Mouse	iv	LD ₅₀	60±3 ²
1892	Succinic acid	Frog	sc	MLD	1800-2000
1893	Succinochlorimide	Rat	or	MLD	2700
		Rat	iv	LD	400
1894	Succinylnitrite	Frog	sc	MLD	1000
		Rabbit	sc	MLD	35
1895	Succinylsulfathiazole	Mouse	ip	LD ₅₀	5700
		Mouse	ip	LD ₅₀	7500 ³

/1/ Nitrate. /2/ 1% solution in H₂O. /3/ Sodium salt.

Dose mg/kg Range	Vehicle	Time of Death	Reference	
			Lendle, Heffter's Hdb. <u>E. 1:78.</u> Ibid Ibid	1888
			Lendle, Heffter's Hdb. <u>E. 1:78.</u> Ibid Ibid Ibid Ibid Ibid Neumann, Arch. exp. Path. Pharm. <u>185:328, 1937.</u> Lendle, Heffter's Hdb. <u>E. 1:78.</u> Neumann, Arch. exp. Path. Pharm. <u>185:328, 1937.</u> Lendle, Heffter's Hdb. <u>E. 1:78.</u>	1889
		1/3-2 hr	Flury, Abderhalden's Hdb. <u>4. 7b:1403.</u> Ibid Amann, Arch. exp. Path. Pharm. <u>201:161, 1943.</u> Lehman, Q. Pull. Assoc. F. & D. Off. <u>18:122, 1951.</u> Kreitmair, Arch. exp. Path. Pharm. <u>187:607, 1937.</u> Amann, Arch. exp. Path. Pharm. <u>201:161, 1943.</u> Poe, J. Pharm. Exp. Ther. <u>58:239, 1936.</u> Ibid Ibid Amann, Arch. exp. Path. Pharm. <u>201:161, 1943.</u> Flury, Abderhalden's Hdb. <u>4. 7b:1403.</u> Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid Heinekamp, J. Pharm. Exp. Ther. <u>23:146, 1924.</u>	1890
	H ₂ O H ₂ O H ₂ O		Anderson, Science <u>103:419, 1946.</u> Ibid Ibid	1891
			Heymans, Dubois' Arch. f. Physiol. <u>13:168, 1839.</u>	1892
		1/2-18 hr	Stohlman, Pub. Health Rpt. <u>59:541, 1944.</u> Ibid	1893
			Heymans, Arch. int. pharmacod. <u>3:77, 1897.</u> Ibid	1894
	Oil H ₂ O	4 hr 1/2-1 hr	Welch, J. Pharm. Exp. Ther. <u>75:231, 1942.</u> Ibid	1895

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1896	Sulfacetinade	Mouse Rabbit Dog	or or or	LD ₅₀ LD ₅₀ LD ₅₀	16,500 15,000 8000
1897	Sulfadiazine (sodium salt)	Mouse	sc	LD ₅₀	1500-1750
1898	Sulfaguanidine	Mouse	ip	LD ₁₀₀ *	1000
1899	Sulfamethylthiazole sodium	Mouse Rat	sc ip	LD ₅₀ LD ₁₀₀	860 750
1900	Sulfamic acid	Rat Rat	or ip	MLD MLD*	1600 100
1901	Sulfanilamide	Mouse Mouse Mouse Rat Rat Rat Rabbit Dog	or or sc or ip ip or or	LD ₅₀ LD ₅₀ MLD LD ₅₀ LD ₅₀ * LD ₅₀ LD ₅₀ LD ₅₀	3700 4200 6000-9000 ¹ 3900-10,000 2600 600-700 ² 3500-5000 2000
1902	Sulfapyridine	Mouse Mouse Mouse Mouse Mouse Rat Rat Rat Rabbit Rabbit Dog	or or sc sc iv or or ip iv iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₁₀₀ LD ₅₀ LD ₁₀₀ LD ₂₅ LD ₁₀₀ LD	27,000 ³ 15,000 1000 ³ 1390 ³ 960 ³ 3000 15,800 1500 500 ³ 1000 ³ 500 ³
1903	Sulfaquinoxaline	Mouse Rat	or or	LD LD	15,000 1000
1904	Sulfarsphenamine	Rat Rat	sc iv	MLD MLD	400-700 320-480
1905	Sulfathiazole	Mouse Mouse Mouse Rat	or sc iv ip	LD ₅₀ LD ₅₀ LD ₅₀ LD ₁₀₀	4500 ³ 1450-1950 990 ³ 1250
1906	Sulfacetic acid	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	3160 1570
1907	Sulfonal	Guinea pig Rabbit Dog	or or or	MLD LD LD	8500 3000 900
1908	Sulfox-Cide ⁴	Rat Rabbit	or ct	LD ₅₀ * LD ₅₀ *	2000 >9 cc
1909	Suosan	Rat	ip	LD ₅₀	1000

/1/ Isotonic solution. /2/ Hydrochloride. /3/ Sodium salt. /4/ Commercial name.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	G acacia G acacia G acacia		Fisher, J. Urol. 47:183, 1942. Ibid Ibid	1896
		24 hr+	Feinstone, Bull. Johns Hopkins Hosp. 67:427, 1940.	1897
	Olive oil	12-24 hr	Marshall, Bull. Johns Hopkins Hosp. 67:163, 1940.	1898
		20 hr	Lehr, Proc. Soc. Exp. Biol. Med. 45:15, 1940.	1899
		12-20 hr 4-72 hr	Ambrose, J. Ind. Hyg. Tox. 25:26, 1943. Ibid	1900
	G acacia	1-3 da	Fisher, J. Urol. 47:183, 1942. Wien, Q. J. Pharm. Pharmacol. 11:217, 1938. Barlow, Proc. Soc. Exp. Biol. Med. 37:315, 1937. Marshall, Physiol. Rev. 19:280, 1939. Poe, Proc. Soc. Exp. Biol. Med. 37:559, 1937. Ibid Molitor, J. Pharm. Exp. Ther. 65:405, 1939. Fisher, J. Urol. 47:183, 1942.	1901
	H ₂ O H ₂ O	3 hr	Wien, J. Pharm. Exp. Ther. 84:203, 1945. Ibid Lehr, Proc. Soc. Exp. Biol. Med. 45:15, 1940. Wien, J. Pharm. Exp. Ther. 84:203, 1945. Ibid Molitor, Arch. int. pharmacod. 62:281, 1939. Wien, Q. J. Pharm. Pharmacol. 11:217, 1938. Lehr, Proc. Soc. Exp. Biol. Med. 45:15, 1940. Kohn-Richards, Am. J. Physiol. 129:399, 1940. Ibid Ibid	1902
			Seeler, J. Pharm. Exp. Ther. 82:357, 1944. Ibid	1903
			Voegtlin, Pub. Health Rpt. 37:2783, 1922. Ibid	1904
		11 hr	Wien, J. Pharm. Exp. Ther. 84:203, 1945. Lehr, Proc. Soc. Exp. Biol. Med. 45:15, 1940. Wien, J. Pharm. Exp. Ther. 84:203, 1945. Lehr, Proc. Soc. Exp. Biol. Med. 45:15, 1940.	1905
1000-2460			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Ibid	1906
		24 hr 24 hr	Flury, Abderhalden's Hdb. 4.7b:1404. Ibid Ibid	1907
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Ibid, 16:3, 1952.	1908
			Kiese, Arch. exp. Path. Pharm. 208:178, 1949.	1909

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1910	S, inpatol	Frog	sc	MLD	1370-1600 ¹
		Frog	sc	MLD	2000-2300 ²
		Mouse	sc	MLD	2070-2420 ¹
		Mouse	sc	MLD	3200-3400 ²
1911	S, nephrin	Mouse	sc	LD	700-800
1912	2, 4, 5-T	Rat	or	LD ₅₀ [*]	300
		Dog	or	LD ₅₀ [*]	100
1913	Tagathen	Mouse	ip	LD ₅₀	105
1914	Tanghiniferin	Cat	iv	LD ₅₀	0.9443
1915	Tanghinigenin	Cat	iv	LD ₅₀	1.016
1916	Tanghinin	Cat	iv	LD ₅₀	0.3524
1917	Tannic acid	Mouse	or	LD ₁₀₀	6000
		Mouse	sc	LD ₁₀₀	200
		Mouse	iv	LD ₁₀₀	80
1918	Tantalum chloride	Rat	or	LD ₅₀	1900 ³
		Rat	ip	LD ₅₀	75 ³
1919	Tantalum oxide	Rat	or	LD ₅₀	>8000 ⁴
1920	Taurocholic acid sodium	Frog	sc	MLD [*]	1444
		Rabbit	iv	MLD [*]	350
		Dog	iv	MLD [*]	600-700
1921	TBH ⁵	Rabbit	ct	LD ₅₀ [*]	>1880
1922	Tenebryl	Mouse	iv	MLD	3330
1923	Tergitol 08 ⁶	Rat	or	LD ₅₀	10.3 cc
		Guinea pig	or	LD ₅₀	3.8 cc
1924	Tergitol 4 ⁷	Rat	or	LD ₅₀	5 cc
		Guinea pig	or	LD ₅₀	2.6 cc
1925	Tergitol 7 ⁸	Rat	or	LD ₅₀	5.7 cc
		Guinea pig	or	LD ₅₀	1.7 cc
1926	Terramycin HCl	Mouse	or	LD ₅₀	7200
		Mouse	sc	LD ₅₀	892
		Rat	iv	LD ₅₀	280
1927	Testosterone	Rat ⁹	ip	LD ₁₀₀ [*]	325.5
1928	sym.-Tetrabromoethane	Guinea pig	or	LD ₅₀ [*]	400
		Rabbit	or	LD ₅₀ [*]	400
1929	sym.-Tetrachloroethane	Rabbit	sc	MLD	500
		Rabbit	iv ⁹	LD ₅₀	80
		Dog	or	MLD	700
		Dog	iv	MLD	60
1930	Tetrachloroethylene (continued on next page)	Mouse	or	LD	8120
		Mouse	or	LD ₅₀ [*]	8850 ¹⁰

/1/Dose. /2/Tartrate. /3/50% solution in H₂O. /4/50% suspension in H₂O. /5/20% solution.
7-ethyl-2-methyldecanol-4-sulfate. /8/25% aqueous solution of sodium 3,9-diethyltridecanol-

Dosage mg, kg Range	Vehicle	Time of Death	Reference	
		$\frac{1}{2}$ hr	Fühner, Arch. exp. Path. Pharm. 166:437, 1932. Ibid Ibid Ibid	1910
			Kuschinsky, Arch. exp. Path. Pharm. 156:290, 1930.	1911
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Drill, Arch. Ind. Hyg. Occ. Med. 7:61, 1951.	1912
92-109			Castillo, J. Pharm. Exp. Ther. 96:388, 1949.	1913
0.5034-1.3344	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1914
0.6486-1.5675	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1915
0.2275-0.8372	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1916
		1-3 da 1-2 da 1-2 da	Robinson, J. Pharm. Exp. Ther. 77:63, 1943. Ibid Ibid	1917
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	1918
	H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	1919
			Flury, Abderhalden's Hdb. 4.7b:1350. Ibid Ibid	1920
			Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952.	1921
			Binz, Biochem. Zachr. 252:16, 1932.	1922
9.0-11.4 cc 3.3-4.2 cc			Smyth, J. Ind. Hyg. Tox. 23:478, 1941. Ibid	1923
4.4-5.5 cc 2.3-2.8 cc			Smyth, J. Ind. Hyg. Tox. 23:478, 1941. Ibid	1924
4.8-6.6 cc 1.3-2.2 cc			Smyth, J. Ind. Hyg. Tox. 23:478, 1941. Ibid	1925
6585-8232 819-972 233-336			P'An, J. Pharm. Exp. Ther. 99:234, 1950. Ibid Ibid	1926
		6 hr	Selye, Proc. Soc. Exp. Biol. Med. 46:116, 1941.	1927
			Grey, Arch. Ind. Hyg. Occ. Med. 2:407, 1950. Ibid	1928
		24 hr 24 hr 30 min	Barsoum, Q. J. Pharm. Pharmacol. 7:203, 1934. Hart, J. Pharm. Exp. Ther. 98:12, 1950. Barsoum, Q. J. Pharm. Pharmacol. 7:203, 1934. Ibid	1929
		2-9 hr	Lamson, Am. J. Hyg. 9:430, 1929. Dybing, Acta pharm. tox. 2:223, 1946.	1930

/6/40% aqueous solution of sodium 2-ethylethanol sulfate. /7/25% aqueous solution of sodium 6-sulfate. /9/Rapid injection. /10/Chemically pure.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1930	Tetrachloroethylene (concluded)	Mouse	or	LD ₅₀	10,900
		Rabbit	or	LD	8120
		Rabbit	sc	MLD	2200
		Cat	or	LD	6496
		Dog	or	LD	6,496-24,360
		Dog	iv	MLD	85
1931	2, 3, 4, 6-Tetrachlorophenol	Rat	or	LD ₅₀	140 ¹
		Rat	sc	MLD	2.0 ¹
1932	1, 1, 3, 3-Tetraethoxypropane	Rat	or	LD ₅₀	3730
1933	Tetraethoxysilane	Rat	or	LD ₁₀₀	3000-5000
		Rat	or	LD ₅₀	6270
		Rat	ip	MLD	559.8
		Rabbit	iv	MLD	186.6
1934	Tetraethylammonium hydroxide	Frog	sc	LD	100-200
		Mouse	sc	LD	192
1935	Tetraethylene glycol dibutyl ether	Rat	or	LD ₅₀	6500
		Rabbit	ct	LD ₅₀	10,000
1936	Tetraethylenepentamine	Rat	or	LD ₅₀	3990
		Rabbit	ct	LD ₅₀	660
1937	Tetraethyl pyrophosphate	Mouse	or	LD ₅₀	7.0±0.3
		Mouse	ip	LD ₅₀	0.85
		Rat	or	LD ₅₀	1.24
		Rat?	or	LD ₅₀	1.2±0.1
		Rat?	or	LD ₅₀	2.0±0.15
		Rat	or	LD ₅₀ *	1.2
		Rat	or	LD ₅₀ *	1.4
		Rst	ip	LD ₅₀	0.65
		Guinea pig	or	LD ₅₀	2.3±0.19
		Rabbit	ct	MLD	0.04 cc
		Rabbit	ct	LD ₅₀	5
1938	Tetraethylthiuramide	Rabbit	or	MLD	3000
1939	5, 6, 7, 8-Tetrahydrocarbazole	Rat	or	LD ₅₀	2650
1940	Tetrahydroerythroidine	Mouse	sc	LD	9.5
1941	Tetrahydroisoquinoline	Mouse	sc	MLD	230-350
1942	Tetrahydronaphthalene	Rat	or	LD ₅₀	2860
		Rabbit	ct	LD ₅₀	17,300
1943	1, 2, 3, 4-Tetrahydro-2-naphthol	Mouse	or	LD ₅₀	2 cc
		Rat	or	LD ₅₀	1 cc
		Guinea pig	or	LD ₅₀	1 cc
		Rabbit	or	LD ₅₀	2.8 cc
1944	Tetrahydronaphthylamine	Rabbit	sc	MLD	50
1945	Tetraisopropyl pyrophosphate	Mouse	ip	LD ₅₀	16

/1/ 4% solution in fuel oil. /2/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Oil	7-20 hr	Dyring, Acta pharm. tox. 2:225, 1946.	1930
		21 hr	Lamson, Am. J. Hyg. 9:430, 1929.	
		6-36 hr	Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	
		7 1/2-72 hr	Lamson, Am. J. Hyg. 9:430, 1929.	
	Oil	30 min	Ibid	
			Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	
	Fuel oil		Deichmann, Fed. Proc. 2:76, 1943.	1931
	Fuel oil		Ibid	
2680-5310			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	1932
4820-8100		4 da	Rowe, J. Ind. Hyg. Tox. 30:332, 1948.	1933
		5 min	Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	
			Kasper, Indust. Med. 6:660, 1927.	
			Ibid	
			Bovet & Bovet-Nitti, 2	1934
			Hunt, J. Pharm. Exp. Ther. 25:335, 1925.	
			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	1935
			Ibid	
3340-4780			Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	1936
550-780			Ibid	
			Frawley, J. Pharm. Exp. Ther. 105:156, 1952.	1937
			Mangun, Fed. Proc. 6:353, 1947.	
			Div. Pharm. F. & D. Adm. Q. Rpt. 4, June 1947.	
			Frawley, J. Pharm. Exp. Ther. 105:156, 1952.	
			Ibid	
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	
			Mangun, Fed. Proc. 6:353, 1947.	
			Ibid	
			Frawley, J. Pharm. Exp. Ther. 105:156, 1952.	
			Deichmann, Fed. Proc. 6:322, 1947.	
			Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951.	
			Ganzlik, J. Pharm. Exp. Ther. 17:349, 1921.	1938
			Eagle, J. Pharm. Exp. Ther. 99:450, 1950.	1939
			Unna, J. Pharm. Exp. Ther. 80:39, 53, 1944.	1940
			Hjort, J. Pharm. Exp. Ther. 62:165, 1938.	1941
2580-3180			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	1942
14,500-20,600			Ibid	
			Draize, J. Pharm. Exp. Ther. 93:26, 1948	1943
			Ibid	
			Ibid	
			Ibid	
			Stern, Arch. path. Anat. 115:14, 1889.	1944
			DuBois, Arch. Ind. Hyg. Occ. Med. 6:9, 1952.	1945

Vévéatif, " New York: S. Karger, 1948

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
1946	N,N,N,N-Tetrakis-(β -chloroethyl)- ammonium chloride	Mouse Mouse Rat Rat Rabbit	sc sc sc iv iv	LD ₅₀ * LD ₅₀ * LD ₅₀ * LD ₅₀ * LD ₅₀ *	26 7.5 19 3.8 2.5
1947	Tetramethoquin	Mouse Mouse Mouse Rabbit	or sc iv im	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	18.8±3.35 0.77±0.05 0.24±0.033 0.79±0.078
1948	Tetramethylammonium hydroxide	Frog Mouse Rabbit Rabbit	sc sc sc iv	LD LD LD LD	5 20 6-8 1-2
1949	Tetramethylpyrophosphate	Mouse	ip	LD ₅₀	1.7
1950	Tetramethylthiuramide	Rabbit	or	M.L.D	350
1951	Tetrapropylidithionophosphate	Rat Rat	or ip	LD ₅₀ LD ₅₀	1450 1100
1952	Tetronic acid	Mouse	ip	LD ₅₀	3000
1953	Tetrosan	Mouse Mouse Rat Guinea pig	or iv or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	2000 50 730 316
1954	Tetryl	Dog	sc	M.L.D	500
1955	Thallium acetate	Mouse Rabbit Dog Bird	sc sc or sc	M.L.D M.L.D M.L.D LD	0.5 5 18.5 40-160
1956	Thallium nitrate	Rat Rabbit Dog	sc iv or	LD LD LD	20 14 45
1957	Thallium sulfate	Rat ² Rat ³ Rat	or or or	LD ₅₀ LD ₅₀ LD ₅₀ *	15.8±9.0 22.9 25
1958	Thanite	Rat	or	LD ₅₀ *	1000
1959	Thebaine	Frog Guinea pig Rabbit Pigeon	sc sc cc sc	LD LD LD ₅₀ LD	20 30 13.9 ⁴ 24
1960	Thenfaul	Mouse Mouse Mouse Mouse Rat Rat	or sc ip iv or iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	277±15 36±4 55±5 14.2±1 52±50 15±1

(continued on next page)

11/ Bovet and Bovet-Nitti, "Médicaments du Système Nerveux Végétatif," New York: S.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Anslow, J. Pharm. Exp. Ther. <u>91</u> :224, 1947. Ibid Ibid Ibid	1946
			Brown, Arch. int. pharmacod. <u>81</u> :276, 1950. Ibid Ibid Ibid	1947
			Youlbauer, Arch. int. pharmacod. <u>7</u> :183, 1900. Ibid Ibid Bovet & Bovet-Nitti, ¹	1948
			DuBois, Arch. Ind. Hyg. Occ. Med. <u>6</u> :9, 1952.	1949
			Hanzlik, J. Pharm. Exp. Ther. <u>17</u> :349, 1921.	1950
			DuBois, Arch. Ind. Hyg. Occ. Med. <u>8</u> :350, 1953. Ibid	1951
			Brodersen, Acta pharm. tox. <u>2</u> :109, 1946.	1952
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>18</u> :43, 1954. Ibid Ibid Ibid	1953
			Wells, J. Ind. Hyg. <u>2</u> :247, 1920-1921.	1954
		7 da 9 da	Flury, Abderhalden's Hdb. <u>4.7b</u> :1406. Ibid Ibid Ibid	1955
		48 hr 4 da	Flury, Abderhalden's Hdb. <u>4.7b</u> :1406. Ibid Ibid	1956
		3-4 da	Dieke, Pub. Health Rpt. <u>61</u> :672, 1946. Div. Pharm. F. & D. Adm. Rpt. <u>4</u> , Oct. 1945. Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951.	1957
			Lehman, Q. Bull. Assoc. F. & D. Off. <u>15</u> :122, 1951.	1958
			Flury, Abderhalden's Hdb. <u>4.7b</u> :1408. Starkenstein, Heffter's Hdb. <u>2.2</u> :987. Eddy, J. Pharm. Exp. Ther. <u>66</u> :182, 1939. Flury, Abderhalden's Hdb. <u>4.7b</u> :1408.	1959
			Hoppe, J. Pharm. Exp. Ther. <u>97</u> :371, 1949. Ibid Ibid Ibid Ibid Ibid	1960

Karger, 1948. /2/ Norway rat. /3/ Albino rat. /4/ Hydrochloride.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1960 Theofadine (continued)	Hamster	iv	LD ₅₀	9±1
	Rabbit	iv	LD ₅₀	12±1
	Dog	or	LD ₅₀	60
	Dog	im	LD ₅₀	12
	Dog	iv	LD	10
1961 Theobromine	Rabbit	sc	LD	1000-1500
	Cat	or	LD	180-205
	Rat	sc	LD	900 ¹
1962 Theophylline	Guinea pig	sc	LD	170-200
	Rabbit	or	LD	300-400
	Rabbit	iv	LD	100-130
	Cat	or	LD	100
1963 Theophylline sodium acetate	Rat	sc	MLD	300-350
	Rat	iv	MLD	240
1964 Theosparteine (mono derivative)	Rabbit	iv	MLD	0.00133 ²
1965 Thephorin	Mouse	or	LD ₅₀	255±21
	Mouse	sc	LD ₅₀	270±60
	Mouse	ip	LD ₅₀	88±11
	Mouse	ip	LD ₅₀	106
	Mouse	iv	LD ₅₀	22.5±2.5
	Rat	or	LD ₅₀	280±50
	Rat	sc	LD ₅₀	250
	Guinea pig	ip	LD ₅₀	140±42
	Rabbit	or	LD ₅₀	500
	Rabbit	iv	LD ₅₀	15±2.4
	Dog	iv	LD ₅₀	33
1966 Thiamine HCl	Mouse	or	LD ₅₀	3000
	Mouse	sc	LD ₆₆	1000
	Mouse	ip	LD ₅₀	329.8±3.93
	Mouse	iv	LD	125
	Mouse	iv	LD ₁₀₀	150
	Rat	iv	LD	250
	Rabbit	iv	LD	300
	Rabbit	iv	MLD	117.45
	Dog	iv	LD	350
1967 Thiamine mononitrate	Mouse	ip	LD ₅₀	387.3±1.65
	Mouse	iv	LD ₅₀	84.24±1.14
	Rabbit	iv	LD ₅₀	112.58
1968 Thioacetamide	Rat	or	MLD	200
1969 Thioamylal sodium	Rat	or	MLD	250
	Rat	ip	MLD	140
	Rat	iv	MLD	160
1970 Thiocyanobenzoic acid (continued on next page)	Rat	ip	LD ₅₀	32±2.1 ³
	Rat	or	LD ₅₀	73±5.7 ⁴

/1/ With sodium acetate. /2/ Given as "gram equivalents/kilo" in reference /3/ Ortho.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Hoppe, J. Pharm. Exp. Ther. <u>97</u> :271, 1949. Ibid Ibid Ibid	1960
			Flury, Abderhalden's Hdb. <u>4</u> , 7b:1408. Ibid Unna, Arch. exp. Path. Pharm. <u>187</u> :163, 1937.	1961
	H ₂ O		Flury, Abderhalden's Hdb. <u>4</u> , 7b:1409. Ibid Ibid Ibid	1962
			Unna, Arch. exp. Path. Pharm. <u>187</u> :163, 1937. Chen, J. Pharm. Exp. Ther. <u>45</u> :1, 1932.	1963
			Simon, Boll. soc. ital. biol. sper. <u>27</u> :1324, 1951.	1964
96-117		48 hr	Lehman, J. Pharm. Exp. Ther. <u>92</u> :249, 1948. Ibid Ibid Way, J. Pharm. Exp. Ther. <u>104</u> :115, 1952. Lehman, J. Pharm. Exp. Ther. <u>92</u> :249, 1948. Ibid Halpern, C. rend. Soc. biol. <u>144</u> :887, 1950. Lehman, J. Pharm. Exp. Ther. <u>92</u> :249, 1948. Ibid Ibid Ibid	1965
		20 min	Hecht, Klin. Wschr. <u>16</u> :414, 1937. Ibid Haley, Proc. Soc. Exp. Biol. Med. <u>68</u> :153, 1948. Molitor, Merck Report 1941. Hecht, Klin. Wschr. <u>16</u> :414, 1937. Molitor, Merck Report 1941. Ibid Haley, Proc. Soc. Exp. Biol. Med. <u>68</u> :153, 1948. Molitor, Merck Report 1941.	1966
			Haley, Proc. Soc. Exp. Biol. Med. <u>68</u> :153, 1948. Ibid Ibid	1967
		48-72 hr	Ambrose, J. Ind. Hyg. Tox. <u>31</u> :158, 1949.	1968
			Gruhzit, J. Pharm. Exp. Ther. <u>60</u> :125, 1937. Ibid Ibid	1969
		3 hr	Krantz, Proc. Soc. Exp. Biol. Med. <u>74</u> :321, 1950. Tawab, J. Pharm. Exp. Ther. <u>96</u> :416, 1949.	1970

/4/ Meta.

Compound	Animal	Route	Dose	Dosage
				mg/kg Value
1970 Thiocyanobenzoic acid (concluded!)	Rat Rat Rat	ip or ip	LD ₅₀ LD ₅₀ LD ₅₀	17±1.3 ¹ 83±8.1 ² 22±1.9 ²
1971 Thiomerin sodium ³	Mouse Mouse Mouse Rat Rat Rabbit Rabbit Cat Cat	sc iv iv sc iv iv iv iv iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD LD LD LD	0.84±0.7 cc 4.57±0.94 cc 0.98±0.11 cc 0.023 cc 0.15 cc 8 cc 0.75 cc 4 cc 2 cc
1972 Thiopentex	Rat ⁷	ip	LD ₅₀	1200
1973 Thiophene	Rabbit	sc	MLD	830
1974 Thiosemicarbazide	Rat ⁴ Rat ⁵ Rat ⁶ Guinea pig Cat Dog	or or or ip or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	13±2.1 19±1.3 11±2 24±2 20 10
1975 Thiosinamine	Frog Mouse Rat Guinea pig Rabbit Dog	sc sc sc iv iv iv	LD LD LD LD MLD LD	5000 700-1000 700-1000 700-1000 571 100-130
1976 2-Thiouracil	Rabbit	or	MLD	3697
1977 Thiourea	Frog Rat ⁴ Rat ⁷ Rat ⁸ Rat ⁴ Guinea pig Rabbit	sc or or ip ip sc or	MLD* LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ MLD MLD	10,000 1830 125-640 4.0±0.2 1830±135 4000 6985
1978 Thorium chloride	Mouse Rat Rabbit	sc iv iv	LD ₅₀ LD LD	4000 24.2-32.2 50 ⁹
1979 Thorium nitrate	Frog Rat Rabbit	sc ip iv	LD LD ₅₀ LD	600 68±12 50 ⁹
1980 Thorium sodium citrate	Frog	sc	LD	600
1981 Thujone	Rat	ip	LD ₁₀₀	24011
1982 Thymol	Frog Mouse Mouse	sc or or	LD MLD LD ₅₀	150 800 1800±224

/1/Meta. /2/Para. /3/1 cc contains 40 mg mercury. /4/Norway rat. /5/Adult. /6/Albino. of 2-3 cc per minute as a 0.5% solution in H₂O. /10/ Water with trisodium citrate. /11/ 2%

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		3 hr	Tawao, J. Pharm. Exp. Ther. <u>96</u> :416, 1949.	1970
		3 hr	Ibid Krantz, Proc. Soc. Exp. Biol. Med. <u>74</u> :321, 1950.	
		4 da	Lehman, J. Pharm. Exp. Ther. <u>99</u> :149, 1950.	1971
		3 hr	Ibid	
		4 da	Ibid	
		1-7 da	Orth, Fed. Proc. <u>9</u> :305, 1950.	
		50 min	Ibid	
		3 hr	Lehman, J. Pharm. Exp. Ther. <u>99</u> :149, 1950.	
		4 da	Ibid	
		4 hr	Ibid	
		4 da	Ibid	
			Mallette, Arch. Ind. Hyg. Occ. Med. <u>5</u> :311, 1952.	1972
		24 hr	Thieme, Dissert., Würzburg 1935.	1973
5-15	G acacia		Dieke, Proc. Soc. Exp. Biol. Med. <u>70</u> :688, 1949.	1974
	G acacia		Ibid	
	G acacia		Ibid	
	G acacia		Ibid	
	G acacia		Ibid	
		24 hr	Flury, Abderhalden's Hdb. <u>4</u> .7b:1409.	1975
			Ibid Tyrode, Arch. int. pharmacod. <u>19</u> :195, 1909. Ibid Flury, Abderhalden's Hdb. <u>4</u> .7b:1409.	
			Simon, Boll. soc. ital. biol. sper. <u>24</u> :803, 1948.	1976
			Hartzell, Boyce Thompson Inst. <u>11</u> :249, 1940. Dieke, J. Pharm. Exp. Ther. <u>90</u> :260, 1947. Ibid Ibid, <u>83</u> :195, 1945. Ibid Hartzell, Boyce Thompson Inst. <u>11</u> :249, 1940. Simon, Boll. soc. ital. biol. sper. <u>24</u> :803, 1948.	1977
	H ₂ O		Vincke, Arch. exp. Path. Pharm. <u>188</u> :465, 1938. Maxwell, J. Pharm. Exp. Ther. <u>43</u> :61, 1931. Vincke, Arch. exp. Path. Pharm. <u>188</u> :465, 1938.	1978
	H ₂ O ¹⁰ H ₂ O		Sollmann, Am. J. Physiol. <u>18</u> :426, 1907. McClinton, J. Pharm. Exp. Ther. <u>94</u> :1, 1948. Vincke, Arch. exp. Path. Pharm. <u>188</u> :465, 1938.	1979
			Sollmann, Am. J. Physiol. <u>18</u> :426, 1907.	1980
	G acacia		Sampson, J. Pharm. Exp. Ther. <u>65</u> :275, 1939.	1981
	Cot oil	10 da	Kochmann, Arch. exp. Path. Pharm. <u>161</u> :196, 1931. Ellinger, Heffter's Hdb. <u>E</u> .1:929. McOmie, J. Am. Pharm. Assoc. <u>38</u> :366, 1949.	1982

/7/ Domestic. /3/ "Hopkins" rat; toxicity varies with species and diet. /9/ Injected at rate solution in 6% gum acacia.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1982	Thymol (concluded)	Rat	sc	MLD	1600-1700
		Guinea pig	sc	MLD	1100
		Guinea pig	ip	MLD	300
		Guinea pig	ip	MLD	>2000
		Rabbit	or	MLD	750-1000
		Rabbit	sc	LD	>2000
		Rabbit	iv	MLD	60
		Cat	or	MLD	250
1983	Tin ¹	Rat	iv	LD	20
		Rabbit	sc	LD	25
1984	Toluene	Rat	sc	LD	4330-8660
		Rat	ip	LD	1732
1985	Toluenediamine	Rat	ip	LD	50
		Guinea pig	sc	LD	200-1700
		Rabbit	sc	LD	400
		Dog	sc	LD	200-250
		Dog	sc	LD	350
1986	o-Tolueno-azo-β-naphthol	Rabbit	or	LD	1500
		Rabbit	iv	LD ₁₀₀	120
		Dog	iv	LD ₁₀₀	240
1987	Toluidine Blue	Mouse	iv	LD ₅₀	27.56
		Rat	iv	LD ₅₀	28.93
		Rabbit	iv	LD ₅₀	13.44
1988	1-(o-Toluoxy)-2,3-bis-(2,2,2-trichloro-1-hydroxyethoxy)propane	Mouse	or	LD ₅₀	1820 ²
		Mouse	or	LD ₅₀	640 ³
		Rat	or	LD ₅₀	880 ⁴
		Rat	ip	LD ₅₀	440 ⁵
		Guinea pig	or	LD ₅₀	950 ⁶
		Guinea pig	ip	LD ₅₀	460 ⁷
1989	2-[N-p'-Tolyl-N-(m'-hydroxyphenyl)aminoethyl]imidazoline	Mouse	or	LD ₅₀	750
		Rat	or	LD ₅₀	1250
		Rat	sc	LD ₅₀	275
		Rat	iv	LD ₅₀	75
		Rabbit	or	LD ₅₀	2700
1990	m-Tolylloxacetamide HCl	Rat	iv	LD ₅₀	73
1991	Tomatin(e)	Rat	or	LD	800-1000
1992	Toxaphene	Mouse	or	LD ₅₀	112
		Rat	or	LD ₅₀ *	69
		Rat	ip	LD	200
		Guinea pig	or	LD ₅₀	69
		Guinea pig	sc	LD	62.5
		Rabbit	ct	LD ₅₀ *	>4000
		Dog	or	LD ₅₀	15
		Sheep	iv	LD	5
1993	Transvaalin	Cat	iv	LD ₅₀	0.1670

¹/Sodium stannous tartrate; calculated as tin metal. ²/92-108% error. ³/97-107% error.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Oil		Binet, Rev. méd. Suisse rom. 15:561, 1895. Ibid Caujolle, Bull. Soc. biol. chim. 26:334, 1944. Gardner, C. rend. Acad. sc. 200:1430, 1935. Kochmann, Arch. exp. Path. Pharm. 161:196, 1931. Ibid Basquet, C. rend. Soc. biol. 83:1149, 1920. Kochmann, Arch. exp. Path. Pharm. 161:196, 1931.	1982
		24 hr 1-6 da	Salant, J. Pharm. Exp. Ther. 5:517, 1914. Ibid	1983
			Cameron, J. Path. Bact. 46:95, 1938. Ibid	1984
		6-12 hr 12-36 hr 12-36 hr	Hess, Zschr. exp. Path. Ther. 17:59, 1915. Ibid Gibbs, Dubois' Arch. f. Physiol. Suppl. p259, 1892. Hess, Zschr. exp. Path. Ther. 17:59, 1915.	1985
			Climenko, J. Am. Med. Assoc. 109:493, 1937. Ibid Ibid	1986
			Stolarsky, Fed. Proc. 10:337, 1951. Ibid Ibid	1987
			Reinhard, J. Pharm. Exp. Ther. 106:444, 1952. Ibid Ibid Ibid Ibid	1988
			Trapold, J. Pharm. Exp. Ther. 100:119, 1950. Meier, Proc. Soc. Exp. Biol. Med. 71:7J, 1950. Ibid Trapold, J. Pharm. Exp. Ther. 100:119, 1950.	1989
		30 min	Craver, J. Pharm. Exp. Ther. 101:353, 1951.	1990
		2 da	Wilson, Fed. Proc. 9:325, 1950.	1991
			Div. Pharm. F. & D. Adm. Q. Rpt. 9, March 1948. Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Rodriguez, Arch. soc. biol., Montevideo 18:46, 1951. Div. Pharm. F. & D. Adm. Q. Rpt. 4, June 1947. Rodriguez, Arch. soc. biol., Montevideo 18:46, 1951. Lehman, Q. Bull. Assoc. F. & D. Off. 16:3, 1952. Lackey, J. Ind. Hyg. Tox. 31:117, 1949. Rodriguez, Arch. soc. biol., Montevideo 18:46, 1951.	1992
0.1168-0.2097	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	1993

/4/73-136% error. /5/96-104% error. /6/87-115% error. /7/91-110% error.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
1994	Trasentine	Mouse	or	LD ₅₀	690
		Mouse	iv	LD ₅₀	21.5
		Rat	iv	LD ₅₀	27
1995	Triacetin	Mouse	sc	LD ₅₀	2670
		Rat	sc	LD ₅₀	3250
1996	2, 4, 6-Tribromophenol	Rat	or	LD ₅₀ *	200
1997	Tributyl phosphate	Mouse	sc	MLD	3000
		Rat	or	LD ₅₀	3000
1998	Tributyl phosphite	Rat	or	LD ₅₀	3000
1999	Trichloroacetamide	Rat	or	LD	1500-2000
2000	Trichloroacetic acid	Mouse	or	LD ₅₀	4970
		Rat	or	LD ₅₀	3320
2001	Trichloroacrylyl chloride	Rat	ip	LD ₅₀	0.75-1.5 cc
2002	1, 1, 1-Trichloroethane	Rabbit	sc	MLD	500
		Dog	or	MLD	750
		Dog	iv	MLD	95
2003	Trichloroethanol	Mouse	or	LD ₅₀ *	725
		Rat	or	LD ₅₀ *	600
		Rat	or	MLD	1000
2004	Trichloroethylene	Rabbit	or	LD	7330
		Rabbit	sc	MLD	1800
		Cat	or	LD	5864
		Dog	or	LD	5864
		Dog	iv	MLD	150
2005	Tri-(2-chloroethyl)phosphate	Rat	or	LD ₅₀	1410
2006	2-(Trichloromethyl)-4-chloro-methyl-1, 3, 5-dioxolane	Rat	or	LD ₅₀	1000
2007	2-(Trichloromethyl)-1, 3-dioxolane-4-carbinol acid succinate ester	Rat	or	LD ₅₀	3400
2008	2-(Trichloromethyl)-4-methyl-1, 3-dioxolane	Rat	or	LD ₅₀	380
2009	2, 4, 6-Trichlorophenol	Rat	or	LD ₅₀	820 ¹
		Rat	sc	LD ₅₀	2260 ¹
2010	1, 1, 2-Trichloropropane	Rat	or	LD ₅₀	1230
		Rabbit	ct	LD ₅₀	14.1 cc
2011	Trichlorosilane	Rat	or	LD ₅₀	1030
		Rat	or	LD ₅₀	1000
		Rat	ip	LD ₁₀₀	30-100
2012	Tri-o-cresyl phosphate	Mouse	sc	MLD	12,000
		Rabbit	or	LD	100
		Rabbit	sc	LD	100 ²
		Rabbit	iv	LD	100 ²

(continued on next page)

/1/ 20% solution in fuel oil. /2/ 25% solution in olive oil.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Chen, Proc. Pharm. Soc. Fall Meet. p11 1951. Ibid Craver, Am. J. Dig. Dis. 18:241, 1951.	1994
			Li, Proc. Soc. Exp. Biol. Med. 46:26, 1941. Ibid	1995
			Stohman, Pub. Health Rpt. 66:1303, 1951.	1996
			Eller, Dissert., Würzburg 1937. Smyth, J. Ind. Hyg. Tox. 26:269, 1944.	1997
			Smyth, J. Ind. Hyg. Tox. 26:269, 1944.	1998
			Bräutigam, Arztl. Forsch. 7:115, 1953.	1999
4700-5260 3160-3480		36 hr 36 hr	Woodard, J. Ind. Hyg. Tox. 23:78, 1941. Ibid	2000
			Spiegel, A. E. C. MDDC-1715, 1947.	2001
	Oil Oil Oil	24 hr 24 hr 30 min	Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934. Ibid Ibid	2002
			Molitor, Current Res. Anes. 17:258, 1938. Ibid Burtner, J. Pharm. Exp. Ther. 63:183, 1938.	2003
	Oil	24 hr 30 min	Lamson, Am. J. Hyg. 9:430, 1929. Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934. Lamson, Am. J. Hyg. 9:430, 1929. Ibid Barsoum, Q. J. Pharm. Pharmacol. 7:205, 1934.	2004
960-2080			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	2005
			Finnegan, Fed. Proc. 10:294, 1951.	2006
			Finnegan, Fed. Proc. 10:294, 1951.	2007
			Finnegan, Fed. Proc. 10:294, 1951.	2008
	Fuel oil Fuel oil		Deichmann, Fed. Proc. 2:76, 1943. Ibid	2009
940-1620 8.8-22.9 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	2010
890-1210			Smyth, J. Ind. Hyg. Tox. 31:60, 1949. Rowe, J. Ind. Hyg. Tox. 10:332, 1948. Ibid	2011
	Olive oil Olive oil Olive oil	Sev dn 3-5 dn 4 hr	Eller, Dissert., Würzburg 1937. Gross, Arch. exp. Path. Pharm. 168:473, 1932. Ibid Ibid	2012

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
2012	Tri-o-cresyl phosphate (concluded)	Guinea pig Guinea pig Cat Cat Dog Dog Chicken Chicken	or sc or sc or sc or sc	MLD LD MLD LD LD LD MLD MLD	200-500 300-500 300-500 300-500 100-500 100 ¹ 500-1000 500-1000
2013	Tridione	Mouse Rabbit Rabbit	iv ip iv	LD ₅₀ LD ₅₀ LD ₅₀	2000 1500 1500
2014	Tridiurecaine HCl	Rat Dog	ip iv	LD ₅₀ LD ²	250±13 5
2015	Triethanolamine	Rat Guinea pig	or or	LD ₅₀ LD ₅₀	9000 800
2016	Triethoxyethane	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	7660 20,000
2017	1, 3, 3-Triethoxypropane	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	1600 8000
2018	1, 2, 3-Triethoxy-1-propene	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	2460 370
2019	Triethylamine	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	460 570
2020	Triethylene glycol	Mouse Mouse Mouse Mouse Rat Rat Rat Guinea pig	or sc ip iv or or or or	LD ₅₀ LD ₅₀ LD LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	28,913 9044 8150 7313 22,060 12,375-14,885 8400 14,660
2021	Triethylenemelamine	Mouse	ip	LD ₅₀ ²	4
2022	Triethylenetetramine	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	4340 820
2023	Triethylhexyl phosphate	Rat	or	LD ₅₀	37,000
2024	Triethyl lead chloride	Rat Rabbit	ip ip	MLD LD	5 8
2025	Trigonelline	Mouse Rat	sc sc	MLD LD	2000 5000
2026	2, 4, 6-Trilodophenol	Rat Rat	or or	LD ₅₀ LD ₅₀	<2500 >2500 ²
2027	3, 4, 5-Trimethoxyphenethylamine	Mouse	ip	LD	500

/1/ 25-50% solution in olive oil. /2/ Sodium salt.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
	Olive oil	Sev da 4 da Sev da 39 da Sev da 21 da	Gross, Arch. exp. Path. Pharm. <u>168</u> :473, 1932. Ibid Ibid Ibid Ibid Ibid Ibid	2012
			Richards, J. Lab. Clin. Med. <u>31</u> :1330, 1946. Ibid Ibid	2013
			Rau, J. Pharm. Exp. Ther. <u>101</u> :421, 1941. Ibid	2014
			Kindsavatter, J. Ind. Hyg. Tox. <u>22</u> :206, 1940. Ibid	2015
5780-8630			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	2016
			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	2017
1880-3230 240-570			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	2018
250-850 360-900			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	2019
19,380-25,130 13,750-15,700			Latven, J. Pharm. Exp. Ther. <u>65</u> :89, 1939. Ibid Karel, Fed. Proc. <u>6</u> :342, 1947. Latven, J. Pharm. Exp. Ther. <u>65</u> :89, 1939. Smyth, J. Ind. Hyg. Tox. <u>23</u> :259, 1941. Lawter, J. Am. Pharm. Assoc. <u>29</u> :5, 1940. Ibid Smyth, J. Ind. Hyg. Tox. <u>23</u> :259, 1941.	2020
			Kraus, Proc. Soc. Exp. Biol. Med. <u>76</u> :489, 1951.	2021
3810-4940 720-940			Smyth, J. Ind. Hyg. Tox. <u>31</u> :60, 1949. Ibid	2022
33,700-40,790			Smyth, J. Ind. Hyg. Tox. <u>30</u> :63, 1948.	2023
			Buck, J. Pharm. Exp. Ther. <u>38</u> :161, 1930. Bishoff, J. Pharm. Exp. Ther. <u>34</u> :85, 1928.	2024
			Ito, Jap. J. M. Sc., IV Pharm. <u>1</u> :64, 1933. Brasda, Proc. Soc. Exp. Biol. Med. <u>52</u> :19, 1946.	2025
			Stohlman, Pub. Health Rpt. <u>66</u> :1303, 1951. Ibid	2026
			Grace, J. Pharm. Exp. Ther. <u>50</u> :359, 1934.	2027

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
2028	Trimethylamine	Frog	sc	LD	2000
		Mouse	sc	LD	1000
		Rabbit	sc	LD	800
		Rabbit	iv	LD	400-500
2029	n-Trimethylammonium propanediol ethylal	Mouse	or	LD	5
		Mouse	sc	LD	1.25
		Mouse	iv	LD	0.2
		Guinea pig	sc	LD	0.075
		Dog	sc	LD	0.05
2030	1, 2, 4-Trimethylbenzene	Rat	ip	LD	1.5-2.0 cc
2031	Trimethyl bismuth	Rabbit	or	LD ₅₀ ^a	484
		Rabbit	sc	LD ₅₀ ^a	182
		Rabbit	iv	LD ₅₀ ^a	12
		Dog	or	LD ₅₀ ^a	484
		Dog	sc	LD ₅₀ ^a	182
		Dog	iv	LD ₅₀ ^a	12
2032	Trimethylene glycol	Rat	or	LD ₅₀	16,940
		Rat	im	LD ₅₀	6340-7420
		Rabbit	iv	LD ₅₀	4240-5300
		Cat	or	LD ₅₀	3180
2033	Trimethylnonanone	Rat	or	LD ₅₀	8470
		Rabbit	ct	LD ₅₀	11,000
2034	Trimethyl phosphate	Rat	or	LD ₅₀	1975
		Guinea pig	or	LD	1676
		Rabbit	or	LD	1256
2035	Trimethylstibine ²	Cat	sc	LD	1370
2036	Trimeton	Mouse	iv	LD ₅₀	47.8 ³
		Rat	sc	LD ₁₀₀	500
		Rabbit	iv	MLD	30 ³
2037	Trinitrotoluene	Rat	sc	LD	>700
		Rabbit	sc	LD	500-700
		Cat	or	LD	400
		Cat	sc	LD	200
2038	Triphenylguanidine	Rat	sc	MLD	300
2039	Tripropylene glycol methyl ether	Rat	or	LD ₅₀	3.3 cc
2040	Tris(β-chloroethyl)amine	Mouse	ct	LD ₅₀	7
		Mouse	sc	LD ₅₀	2
		Rat	ct	LD ₅₀	4.9
		Rat	iv	LD ₅₀	8.7
		Rabbit	ct	LD ₅₀	19
		Rabbit	iv	LD ₅₀	2.5
		Dog	ct	LD ₅₀	1
2041	2,4,6-Tris-(dimethylamino)-S-triazine	Mouse	ip	LD ₅₀	220
		Rat	ip	LD ₅₀	265

/1/Bovet and Bovet-Nitti, "Les médicaments du Système Nerveux Végétatif," New York: S. Etibine. /3/As the base.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			Santesson, Skand. Arch. Physiol. <u>10</u> :201, 1900. Bovet & Bovet-Nitti. ¹ Dreyfus, C. rend. Soc. biol. <u>83</u> :481, 1920. Bovet & Bovet-Nitti. ¹	2028
			Fourneau, Bull. Soc. chim. biol. <u>26</u> :516, 1944. Ibid Ibid Ibid	2029
		24 hr	Cameron, J. Path. Bact. <u>46</u> :95, 1938.	2030
			Seifter, J. Pharm. Exp. Ther. <u>67</u> :17, 1939. Ibid Ibid Ibid Ibid	2031
			Van Winkle, J. Pharm. Exp. Ther. <u>72</u> :227, 1941. Ibid Ibid	2032
7180-9980 9,420-13,000			Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951. Ibid	2033
		Sev da 24-30 hr Sev da	Deichmann, J. Pharm. Exp. Ther. <u>88</u> :338, 1946. Ibid Ibid	2034
		8 da	Seifter, J. Pharm. Exp. Ther. <u>66</u> :366, 1939.	2035
			Lindner, Arch. exp. Path. Pharm. <u>211</u> :328, 1950. Halpern, C. rend. Soc. biol. <u>44</u> :887, 1950. Lindner, Arch. exp. Path. Pharm. <u>211</u> :328, 1950.	2036
	Oil Oil		Wyon, Med. Res. Council, Sp. Rpt. <u>58</u> :32, 1921. Ibid Ibid Ibid	2037
		24 hr	Allee, J. Pharm. Exp. Ther. <u>28</u> :251, 1926.	2038
			Rowe, Arch. Ind. Hyg. Occ. Med. <u>9</u> :509, 1954.	2039
			Anslow, J. Pharm. Exp. Ther. <u>91</u> :224, 1947. Ibid Ibid Ibid Ibid Ibid	2040
188-258 143-490			Phillips, J. Pharm. Exp. Ther. <u>100</u> :398, 1950. Ibid	2041

Karger, 1948. /2/ Given in literature as antimony, 1000 mg. recalculated as trimethyl-

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
2042	2,4,6-Tris(ethyleneimino)-S-triazine	Mouse	ip	LD ₅₀	2.8
		Rat	ip	LD ₅₀	1
2043	Tritium oxide	Mouse	sc	LD ₅₀	1 mc/g ¹
2044	Tromexan	Mouse	or	LD ₅₀	880
		Mouse	sc	LD ₅₀	750
		Mouse	ip	LD ₅₀	260
		Rat	or	LD ₅₀	840
		Rat	ip	LD ₅₀	320
		Rabbit	or	LD ₅₀	1100
		Rabbit	ip	LD ₅₀	170
2045	Tropacocaine	Frog	sc	MLD	650
		Rat	iv	MLD	15-20
		Guinea pig	sc	MLD	217
		Guinea pig	ip	MLD	170
		Guinea pig	iv	MLD	25
		Rabbit	sc	MLD*	400
		Cat	iv	MLD	18-22
2046	Trypan blue	Mouse	ip	LD ₁₀₀	400 ²
		Mouse	iv	LD ₆₀ *	200 ²
		Rat	sc	LD ₄₀ *	300 ³
		Rat	ip	LD ₁₀₀	350 ³
		Rat	iv	LD ₁₀₀	300 ³
		Guinea pig	sc	LD ₆₆ *	300 ³
		Guinea pig	ip	LD ₅₀	250 ³
		Rabbit	ip	LD ₁₀₀	400 ⁴
		Rabbit	iv	LD ₆₀ *	150 ⁴
2047	Tryparsamide	Rat	or	MLD	>14,000
		Rat	im	MLD	>2500
		Rat	iv	MLD	>2000
		Rat	iv	LD ₅₀	3200
2048	Tryptamine-strophanthidin	Cat	iv	LD ₅₀	0.350 ⁷
2049	α-Tubocurarine	Mouse	sc	LD	0.325
		Mouse	iv	LD	0.14
		Rabbit	iv	LD	0.223
2050	Tutocaine HCl	Mouse	sc	MLD	350-500
		Mouse	iv	MLD	50
		Guinea pig	sc	MLD	193
		Guinea pig	ip	MLD	250
		Guinea pig	iv	MLD	30
		Rabbit	sc	MLD	200-300
		Rabbit	iv	MLD	15-21
		Dog	ip	MLD	82-85
		Dog	iv	MLD	15-20
2051	Tyramine	Mouse	sc	LD	150-300
		Rabbit	iv	LD	250-300
		Cat	sc	LD	30

¹/Circa 1 millicurie per gram mouse. ²/2/1% solution in H₂O. ³/2% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
2.1-3.8 0.85-1.2			Philips, J. Pharm. Exp. Ther. <u>100</u> :398, 1950. Ibid	2042
		30 da	Brues, Proc. Soc. Exp. Biol. Med. <u>79</u> :174, 1952.	2043
			Gruber, Fed. Proc. <u>10</u> :303, 1951. Stirling, Lancet <u>2</u> :611, 1951. Gruber, Fed. Proc. <u>10</u> :303, 1951. Ibid Ibid Ibid Ibid	2044
			Hirschfelder, Physiol. Rev. <u>12</u> :262, 1932. Ibid Ibid Ibid Ibid Ibid	2045
	H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O		Anderson, Proc. Soc. Exp. Biol. Med. <u>31</u> :825, 1934. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid	2046
			Nelson, J. Pharm. Exp. Ther. <u>63</u> :122, 1938. Ibid Ibid Harris, J. Pharm. Exp. Ther. <u>82</u> :254, 1944.	2047
0.3067-0.8765	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	2048
			Macri, Proc. Soc. Exp. Biol. Med. <u>85</u> :603, 1954. Ibid Ibid	2049
			Hirschfelder, Physiol. Rev. <u>12</u> :262, 1932. Ibid Ibid Ibid Ibid Ibid Ibid Barke, Dissert., Hannover 1936. Hirschfelder, Physiol. Rev. <u>12</u> :262, 1932.	2050
			Flury, Abderhalden's Hdb. <u>4</u> :7b:1410. Ibid Ibid	2051

/4/5% solution in H₂O.

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
2052	Tyrocidine	Mouse	ip	LD ₉₅	90
		Mouse	iv	LD ₁₀₀	25
2053	Tyrothricin ¹	Mouse	ip	LD ₁₀₀	90
		Mouse	iv	LD ₁₀₀	10
2054	Uliron	Frog	sc	MLD	>500
		Mouse	or	MLD	>2000
		Mouse	iv	MLD	750
		Rabbit	or	MLD	>5000
		Rabbit	im	MLD	3000
		Rabbit	iv	MLD	250-300
		Monkey	or	MLD	>1000
2055	Undecylenic acid	Rat	or	LD ₅₀ [*]	2500
2056	Uranium tetrachloride	Rat	ip	LD ₅₀	335 ²
2057	Uranyl fluoride	Rat	ip	LD ₅₀	40-78
2058	Uranyl nitrate, UO ₂ (NO ₃) ₂ · 6H ₂ O	Mouse ⁴	ip	LD ₅₀	52.8
		Mouse ⁴	ip	LD ₅₀	42.2-50.64
		Mouse	iv	LD [*]	21.1-42.2
		Rat ⁴	ip	LD ₅₀ [*]	5055
		Rat ⁴	ip	LD ₅₀ [*]	135 ⁵
		Rat	iv	LD [*]	2.11
		Guinea pig	iv	LD [*]	6.33
		Rabbit	sc	LD ₅₀ [*]	1.47
		Rabbit	iv	LD [*]	0.8
		Rabbit	iv	LD [*]	0.21
		Cat	or	LD	238
		Dog	or	LD	12.25-1575
		Dog	sc	LD ₅₀ [*]	4.22
		Dog	iv	LD ₁₀₀ [*]	6.75
2059	Urea	Frog	sc	LD	400-1000
		Guinea pig	iv	LD	4000 ⁶
		Rabbit	sc	LD	3000-9000
		Dog	sc	LD	3000-9000
		Dog	iv	LD	3000
		Pigeon	sc	LD	16,000
2060	3-Urea-9-methylcarbazole	Rat	or	LD ₅₀	>5000
2061	Urea stibamine ⁷	Mouse	ip	LD ₅₀	264±19
		Mouse	ip	LD ₅₀	404±27
2062	1-Urea-5,6,7,8-tetrahydrocarbazole	Rat	or	LD ₅₀	2770
2063	3-Urea-5,6,7,8-tetrahydrocarbazole	Rat	or	LD ₅₀	>5000
2064	Urechitoxin	Cat	iv	LD ₅₀	0.3558
2065	Urethan	Mouse	ip	MLD	2100-2200
		Rat	sc	LD	1800
		Rabbit	iv	LD	2000-2800
		Dog	or	LD	2500

/1/Dubos' crude crystals. /2/10% solution in H₂O; toxicity varies with sex and weight of New York: McGraw-Hill, 1949. /4/Toxicity varies with sex and age. /5/10% solution in

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
		24 hr 24 hr	Robinson, J. Pharm. Exp. Ther. <u>74</u> :75, 1942. Ibid	2052
		24 hr 24 hr	Robinson, J. Pharm. Exp. Ther. <u>74</u> :75, 1942. Ibid	2053
			Gessner, Arch. Derm. Syph. <u>181</u> :129, 1940. Ibid Ibid Ibid Ibid Ibid Ibid	2054
			Tislow, J. Pharm. Exp. Ther. <u>98</u> :31, 1950.	2055
	H ₂ O	24 hr	Voegtlin & Hodge. ³	2056
		24 hr	Voegtlin & Hodge. ³	2057
	H ₂ O H ₂ O	24 hr 24 hr 8 hr	Voegtlin & Hodge. pp305, 306. ³ Ibid Ibid, p 307. Ibid, p 284. Ibid Ibid, p 307. Ibid Ibid, p 282. Ibid Ibid, p 307. Worochilsky, Arch. pharm. Inst., Dorpat. <u>5</u> :1, 1898. Ibid Voegtlin & Hodge, p 282. ³ Ibid	2058
	H ₂ O		Flury, Abderhalden's Hdb. <u>4</u> . 7b:1353. Amberg, J. Pharm. Exp. Ther. <u>6</u> :595, 1915. Flury, Abderhalden's Hdb. <u>4</u> . 7b:1353. Ibid Ibid Ibid	2059
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	2060
			Reed, Fed. Proc. <u>5</u> :197, 1946. Ibid	2061
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	2062
			Eagle, J. Pharm. Exp. Ther. <u>99</u> :450, 1950.	2063
0.2295-0.4435	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	2064
			Franklin, J. Pharm. Exp. Ther. <u>42</u> :1, 1931. Gross, Arch. exp. Path. Pharm. <u>182</u> :348, 1936. Flury, Abderhalden's Hdb. <u>4</u> . 7b:1413. Ibid	2065

animals. /3/Voegtlin and Hodge, "Pharmacology and Toxicology of Uranium Compounds,"
H₂O. /6/30% solution in H₂O. /7/Toxicity varies with different brands.

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
2066	Urezin	Cat	iv	LD ₅₀	3.611
2067	r-Valerolactone	Rat Rabbit	or or	LD ₅₀ LD ₅₀	9240 2604
2068	n-i-Va.eryloxypropionyl-K-strophanthidin	Cat	iv	MLD	0.82
2069	i-Valeryl-K-strophanthidin	Cat Rabbit	iv iv	MLD MLD	0.83 0.70
2070	n-Valeryl-K-strophanthidin	Cat	iv	MLD	0.33
2071	Vanadium pentoxide	Rabbit Rabbit	sc iv	LD LD	20 ¹ 10 ¹
2072	Vanadium triiodide	Rabbit	sc	LD	20
2073	Vanadium trichloride	Rabbit	sc	LD	20
2074	Van Dyke 264	Rat Rabbit	or ct	LD ₅₀ [*] LD ₅₀ [*]	2800 470 ²
2075	Vanillin	Rat Rat Rat	sc sc or	MLD LD ₅₀ MLD	1500 2600 3000
2076	Veneniferin	Cat	iv	LD ₅₀	0.3696
2077	Veratridine	Mouse Mouse Rat	iv ip ip	LD ₅₀ LD ₅₀ LD ₅₀	0.42 1.35 3.5
2078	Veratrine	Mouse Mouse	ip ip	LD ₅₀ LD ₅₀	8.5 7.5
2079	Veratrone	Mouse	ip	LD ₅₀	2.45
2080	Veriloid	Mouse Mouse Rat Rabbit	ip iv or or	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	3.2 0.43 12.2 18.7
2081	Veritol	Rat Rat	sc ip	LD LD ₅₀	450-500 100
2082	Victoria yellow	Dog	sc	LD [*]	15
2083	Vinyl acetate	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	2920 2500
2084	Vinyl butyl ether	Rat Rabbit	or ct	LD ₅₀ LD ₅₀	10,300 4.24 cc
2085	Vinyl butyrate	Rat	or	LD ₅₀	8530
2086	Vinyl-β-bis(β-chloroethy)-aminoethylsulfone	Mouse Rabbit	sc iv	LD ₅₀ LD ₅₀	9 2.55

/1/ 2% solution in H₂O. /2/ 5% solution in H₂O.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
1.601-8.738	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	2066
			Deichmann, J. Ind. Hyg. Tox. 27:263, 1945. Ibid	2067
			Neumann, Arch. exp. Path. Pharm. 185:328, 1937.	2068
			Neumann, Arch. exp. Path. Pharm. 185:328, 1937. Ibid	2069
			Neumann, Arch. exp. Path. Pharm. 185:328, 1937.	2070
	H ₂ O H ₂ O		Lendle, Heffter's Hdb. 3.3:1541. Ibid	2071
			Lendle, Heffter's Hdb. 3.3:1541.	2072
			Lendle, Heffter's Hdb. 3.3:1541.	2073
	H ₂ O		Lehman, Q. Bull. Assoc. F. & D. Off. 15:122, 1951. Ibid, 16:3, 1952.	2074
			Binet, Rev. méd. Suisse rom. 16:449, 1896. Deichmann, J. Am. Pharm. Assoc. 29:425, 1940. Ibid	2075
0.2695-0.5347	Alcohol		Chen, J. Pharm. Exp. Ther. 111:365, 1954.	2076
1.12-1.6			Krayer, J. Pharm. Exp. Ther. 82:167, 1944. Swiss. Proc. Soc. Exp. Biol. Med. 76:847, 1951. Krayer, Physiol. Rev. 26:383, 1946.	2077
7.5-9.6 6.1-9.2			Swiss. Proc. Soc. Exp. Biol. Med. 76:847, 1951. Ibid	2078
1.8-3.2			Bauer, Fed. Proc. 9:257, 1950.	2079
			Bauer, Fed. Proc. 9:257, 1950. O'Dell, Proc. Soc. Exp. Biol. Med. 85:400, 1954. Bauer, Fed. Proc. 9:257, 1950. Ibid	2080
			Lindner, Arch. exp. Path. Pharm. 188:675, 1938. Hauschild, Arch. exp. Path. Pharm. 195:647, 1940.	2081
			Matthews, J. Pharm. Exp. Ther. 2:200, 1910.	2082
			Smyth, J. Ind. Hyg. Tox. 30:63, 1948. Ibid	2083
8.400-12.630 3.02-5.95 cc			Smyth, Arch. Ind. Hyg. Occ. Med. 10:61, 1954. Ibid	2084
6.120-11.900			Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	2085
			Anslow, J. Pharm. Exp. Ther. 91:224, 1947. Ibid	2086

	Compound	Animal	Route	Dose	Dosage
					mg/kg Value
2087	Vioform	Guinea pig Cat	or or	LD ₅₀ * LD ₅₀ *	175 400
2088	Visammin	Mouse Rat	? ?	LD ₅₀ LD ₅₀	100±2 80±1.2
2089	Viscotoxin	Rat Rat	iv iv	MLD LD ₅₀	0.2 0.26
2090	Vitamin B ₁₂	Mouse Mouse	sc ip	LD ₁₀₀ LD ₁₀₀	3 3
2091	Vitamin D ₂	Dog	or	LD	4-5
2092	Vitamin K	Mouse Chicken	ip ip	LD LD	>25,000 >25,000
2093	Vulpinic acid	Mouse	ip	LD ₅₀	75
2094	Vuzin	Mouse Rabbit Cat	sc iv sc	MLD LD MLD	200 35 200
2095	Warfarin	Mouse Rat♂ Rat♀ Rat♂♀ Guinea pig Rabbit Rabbit Dog Dog Chicken Chicken	or or or iv or or iv or iv or iv	LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ * LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀ LD ₅₀	374±84 323±70 58±18 186±11 182±8 800 100-200 200-300 200-300 >1000 200-225
2096	m-Xylene	Rat Rat	sc ip	MLD MLD	4320-8640 1720-2160
2097	o-Xylene	Rat Rat	sc ip	MLD MLD	2200-4400 1320-1760
2098	p-Xylene	Rat Rat	sc ip	MLD MLD	4305-8610 1722-2153
2099	Xylenol	Guinea pig	sc	MLD	1750
2100	Xylidine	Rat Rabbit Rabbit Rabbit Cat	or or iv ct iv	LD LD LD LD LD	610-920 620 240 3300 120
2101	Xyllocaine	Mouse Mouse	sc iv	LD ₅₀ LD ₅₀	400 ¹ 25.0-37.5
2102	Xysmaloria	Cat	iv	LD ₅₀	4.472
2103	Yohimbine	Frog Mouse Mouse	sc or iv	LD ₅₀ LD ₁₀₀ LD	33.5 ² 25-502 16

/1/ 2% solution in H₂O. /2/ Hydrochloride.

Dosage mg/kg Range	Vehicle	Time of Death	Reference	
			David, Am. J. Trop. Med. <u>24</u> :29, 1944. Ibid	2087
			Slaughter, J. Pharm. Exp. Ther. <u>101</u> :33, 1951. Ibid	2088
			Zipf, Arch. exp. Path. Pharm. <u>209</u> :165, 1950. Ibid	2089
			Triana, Arch. Path. <u>49</u> :278, 1950. Ibid	2090
		3-5 da	Schettler, Zschr. ges. exp. Med. <u>116</u> :138, 1950.	2091
			Molitor, Proc. Soc. Exp. Biol. Med. <u>43</u> :125, 1940. Ibid	2092
			Brodersen, Acta pharm. tox. <u>2</u> :109, 1946.	2093
		Instant	Bijlsma, Zschr. ges. exp. Med. <u>11</u> :257, 1920. Hoffmann, Zbl. Chir. <u>45</u> :921, 1918. Bijlsma, Zschr. ges. exp. Med. <u>11</u> :257, 1920.	2094
			Hagen, J. Am. Pharm. Assoc. <u>42</u> :379, 1953. Ibid Ibid Ibid Ibid Ibid Ibid Ibid Ibid	2095
			Cameron, J. Path. Bact. <u>46</u> :95, 1938. Ibid	2096
			Cameron, J. Path. Bact. <u>46</u> :95, 1938. Ibid	2097
			Cameron, J. Path. Bact. <u>46</u> :95, 1938. Ibid	2098
			Laubenheimer, "Phenol u. s. Derivate," 1909.	2099
		1-2 da 1-2 da 8 1/2 hr 33 3/4 hr	Treon, J. Ind. Hyg. Tox. <u>31</u> :1, 1949. Ibid Ibid Ibid Ibid	2100
	H ₂ O		Goldberg, Acta physiol. scand. <u>18</u> :1, 1949. Hunter, Brit. J. Anaesth. <u>23</u> :153, 1951.	2101
2.729-6.773	Alcohol		Chen, J. Pharm. Exp. Ther. <u>111</u> :365, 1954.	2102
			Hamet, C. rend. Soc. biol. <u>137</u> :305, 1943. Langer, Dissert., Breslau 1932. Röthlin, Arch. int. pharmacod. <u>50</u> :241, 1935.	2103

	Compound	Animal	Route	Dose	Dosage mg/kg
					Value
2103	Yohimbine (concluded)	Rabbit	sc	LD	50
		Rabbit	iv	LD	11
		Dog	sc	LD	20
2104	Yttrium chloride	Rat	ip	LD ₅₀	450
2105	Yttrium nitrate	Frog	sc	MLD	350
		Rat	ip	LD ₅₀	350
2106	Yttrium oxide	Rat	ip	LD ₅₀	500
2107	Zephiran chloride ¹	Frog	or	LD ₅₀	30
		Frog	sc	LD ₅₀	15
		Mouse	ip	LD ₅₀	10
		Mouse	iv	LD ₅₀	10
		Guinea pig	ip	LD ₅₀	10-12
		Dog	ip	LD ₅₀	6.7
2108	Zinc acetate	Rabbit	or	MLD	976-1966
2109	Zinc chloride	Rat	iv	LD	60-90 ²
2110	Zinc diethyldithiocarbamate	Rabbit	or	LD ₅₀	600
2111	Zinc ethylene-bis-dithiocarbamate	Rat	or	LD ₅₀	>5200
2112	Zinc phosphide	Rat ³	or	LD ₅₀	40.5±2.9
		Rat ⁴	or	LD ₅₀	46.7
2113	Zinc sulfate ⁵ ZnSO ₄ ·7H ₂ O	Frog	sc	LD	149
		Rat	or	LD	2200
		Rat	sc	LD	330-440
		Rat	iv	LD	49.3-61.0
		Rabbit	or	LD	1914-2200
		Rabbit	sc	LD	>220-440
		Rabbit	iv	LD	44
		Dog	sc	LD	78
		Dog	iv	LD	66-110
2114	Ziram	Mouse?	ip	LD ₅₀	73±1
		Rat	or	LD ₅₀	1400±99
		Rat ⁶	ip	LD ₅₀	23±2
		Rat?	ip	LD ₅₀	33±5
		Guinea pig	or	LD ₅₀	100-150
		Guinea pig	ip	LD ₅₀	20-30
		Rabbit	or	LD ₅₀	100-1020
		Rabbit	or	LD ₅₀	400
		Rabbit	ip	LD ₅₀	5-50
2115	Zirconyl acetate	Rat	or	LD ₅₀	4100 ⁶
		Rat	ip	LD ₅₀	300 ⁶
2116	Zirconyl chloride	Rat	or	LD ₅₀	3500 ⁶
		Rat	ip	LD	400
2117	Zirconyl nitrate	Rat	or	LD ₅₀	2500 ⁶
		Rat	ip	LD ₅₀	1250 ⁶

/1/ Calculated as Zephiran commercial solution. /2/ 1% solution in H₂O. /3/ Norway.
the most common form of zinc sulfate. /6/ 50% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			Flury, Abderhalden's Hdb. 4.7b:1418. Ibid Langer, Dissert., Breslau 1932.	2103
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	2104
			Steidle, Arch. exp. Path. Pharm. 141:273, 1929. Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950.	2105
			Cochran, Arch. Ind. Hyg. Occ. Med. 1:537, 1950.	2106
			Arnold, Deut. Zschr. ger. Med. 41:297, 1952. Ibid Ibid Ibid Ibid	2107
			Eichholtz, Heffter's Hdb. 3.3:1925.	2108
	H ₂ O		Bruner, Fed. Proc. 9:260, 1950.	2109
			Brieger, Proc. 9th Int. Congr. Acc. Med., 1948.	2110
			Smith, J. Pharm. Exp. Ther. 109:159, 1953.	2111
			Dieke, Pub. Health Rpt. 61:672, 1946. Div. Pharm. F. & D. Adm. Q. Rpt. 4, Oct. 1945.	2112
			Eichholtz, Heffter's Hdb. 3.3:1925. Flury, Abderhalden's Hdb. 4.7b:1419. Ibid Ibid Ibid Ibid Ibid Ibid	2113
			Hodge, J. Am. Pharm. Assoc. 41:662, 1952. Ibid Ibid Ibid Ibid Ibid Ibid Brieger, Proc. 9th Int. Congr. Acc. Med., 1948. Hodge, J. Am. Pharm. Assoc. 41:662, 1952.	2114
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	2115
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	2116
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. 1:637, 1950. Ibid	2117

/4/ Albino. /5/ Values given as mg zinc metal in literature are recalculated as ZnSO₄·7H₂O.

Compound		Animal	Route	Dose	Dosage mg/kg Value
2118	Zirconyl sodium citrate	Rat	ip	LD ₅₀	1710±80
2119	Zirconyl sodium gluconate	Rat	ip	LD ₅₀	247±40
2120	Zirconyl sulfate	Rat	or	LD ₅₀	3500 ¹
		Rat	ip	LD ₅₀	175 ¹

/1/ 25% solution in H₂O.

Dosage mg/kg	Vehicle	Time of Death	Reference	
Range				
			McClinton, J. Pharm. Exp. Ther. <u>94</u> :1, 1941.	2118
			McClinton, J. Pharm. Exp. Ther. <u>94</u> :1, 1948.	2119
	H ₂ O H ₂ O		Cochran, Arch. Ind. Hyg. Occ. Med. <u>1</u> :637, 1950. Ibid	2120

TABLE II

LETHAL CONCENTRATIONS OF
GASES, VAPORS, AND FUMES IN RESPIRED AIR:
LABORATORY ANIMALS

	Compound	Animal	Dose	Concentration mg/liter
1	Acetal	Rat	LC	19.3
2	Acetaldehyde	Rat Cat	LC ₅₀ LC	37 20
3	Acetic anhydride	Rat	LC ₅₀	4.3
4	Acetone	Rat Rat Rat Rat Guinea pig Guinea pig Guinea pig Cat Cat	LC LC LC LC LC LC LC LC LC	76 100 200 300 23.7 47.4 118.5 50.5 64
5	Acetylene	Rat	LC	947
6	Acrolein	Rat Rat Cat Cat	LC ₅₀ LC ₅₀ LC LC	0.019 0.3 1.5 1.98
7	Acrylonitrile	Rat Rat Dog	LC ₅₀ MLC ₁₀₀ MLC	1.1 1.38 0.24
8	Allyl acetate	Rat	LC ₅₀	1
9	Allyl alcohol	Mouse Rat Rat Rabbit Rabbit Monkey	LC LC ₅₀ LC LC LC LC	12 9.6 2.4 1.2 2.4 2.4
10	Allyl chloride	Rat Rat Rat Guinea pig Guinea pig Guinea pig	MLC ₁₀₀ MLC ₁₀₀ MLC ₁₀₀ MLC ₁₀₀ MLC ₁₀₀ MLC ₁₀₀	50 10 1 50 10 1
11	Allylene	Rat	LC	82
12	Ammonia	Mouse Guinea pig Rabbit Rabbit Cat	LC ₅₀ MLC LC ₅₀ * MLC MLC	7.06 ± 0.32 7-9.5 7 3.2-4.4 3.5-5.1

Concentration Parts per million	Exposure Time	Time of Death	Reference	
4000	4 hr	14 da	Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	1
1112	30 min Cont	1-2 hr	Skog, Acta pharm. tox. 6:299, 1950. Iwanoff, Arch. f. Hyg. 73:307, 1911.	2
1000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	3
32,000 42,200 84,400 126,600 10,000 20,000 50,000 21,310 27,000	8 hr Cont Cont Cont Cont Cont Cont 3 hr 4 hr	4 1/2-5 1/2 hr 2 1/2-3 hr <2-<3 hr 48 hr* 22-26 hr 3-4 hr* 72 hr 24 hr	Smyth, unpublished data, Mellon Inst. Haggard J. Ind. Hyg. Tox. 26:133, 1944. Ibid Ibid Specht, Pub. Health Rpt. 54:944, 1939 Ibid Ibid Kagan, Arch. f. Hyg. 94:41, 1924. Ibid	4
900,000	Cont	2 hr	Riggs, Proc. Soc. Exp. Biol. Med. 22:269, 1925.	5
8 655 865	4 hr 30 min 2 1/4 hr Cont	18 hr 2 1/2 hr	Carpenter, J. Ind. Hyg. Tox. 31:343, 1949. Skog, Acta pharm. tox. 6:299, 1950. Iwanoff, Arch. f. Hyg. 73:307, 1911. Ibid	6
502 635 110	4 hr 4 hr Cont	8 hr 4 hr	Carpenter, J. Ind. Hyg. Tox. 31:343, 1949. Dudley, J. Ind. Hyg. Tox. 24:27, 1942. Ibid	7
250	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	8
5000 250 1000 500 1000 1000	1 hr 4 hr Cont 4 hr Cont Cont	4 hr >3-<5 hr 3 hr	Smyth, unpublished data, Mellon Inst. Carpenter, J. Ind. Hyg. Tox. 31:343, 1949. McCord, J. Am. Med. Assoc. 98:2267, 1932. Smyth, unpublished data, Mellon Inst. McCord, J. Am. Med. Assoc. 98:2267, 1932. Ibid	9
14,500 2900 290 14,500 2900 290	Cont Cont Cont Cont Cont Cont	1 1/4 hr 3 hr 8 hr 3/4 hr 2 hr 4 hr	Adams, J. Ind. Hyg. Tox. 22:79, 1940. Ibid Ibid Ibid Ibid Ibid	10
50,000	Cont	2 hr	Riggs, Proc. Soc. Exp. Biol. Med. 22:269, 1925.	11
10,066 9,800-13,500 10,066 4630-6250 4950-7230	10 min 3 hr 1 hr Cont Cont	10 da 14 da 5 3/4 hr 1 1/2 hr	Silver, J. Ind. Hyg. Tox. 30:7, 1948. Lehmann, Arch. f. Hyg. 5:68, 1886. Boyd, J. Ind. Hyg. Tox. 26:29, 1944. Lehmann, Arch. f. Hyg. 5:68, 1886. Ibid	12

	Compound	Animal	Dose	Concentration mg/liter
13	Amylene	Rat	LC	171
14	Amyltrichlorosilane	Rat	LC	16.8
15	Aniline	Mouse Rat Cat	LC ₅₀ LC MLC	1.12 ± 0.03 2.1 0.7
16	Arsenic trichloride	Mouse Cat	LC LC	2.5 0.2
17	Arsine	Mouse Mouse Mouse Mouse Cat Cat Monkey	LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀ * LC LC LC ₈₀	0.025 0.1 0.5 1 0.15 0.38-0.94 0.45
18	Benzene	Mouse Mouse Rat Cat Dog	MLC LC ₅₀ LC ₅₀ LC LC	38 31.79 51 170 146
19	Benzyl alcohol	Rat	LC ₅₀	8.8
20	Bis-(p-chlorophenoxy)methane	Rat Rat	LC ₅₀ LC ₅₀ *	98 82
21	Bromine	Guinea pig Rabbit Rabbit	LC LC LC	0.98 0.59 0.98
22	Bromoform	Dog	LC	57.9
23	1,3-Butadiene	Rabbit	LC	552
24	Butadiene monoxide	Mouse Mouse	LC ₅₀ * LC ₅₀ *	0.25mM 18
25	Butanone	Guinea pig Guinea pig	LC LC	294 29.4
26	Butene - 2	Mouse	LC	420-430
27	Butyl acetate	Rat Cat	LC ₅₀ LC	3 92
28	Butyl acrylate	Rat	LC	5.2
29	Butylene	Rat	LC	687

Concentration Parts per million	Exposure Time	Time of Death	Reference	
60,000	Cont	2 hr	Riggs, Proc. Soc. Exp. Biol. Med. <u>22:269</u> , 1925.	13
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	14
294.6	7 hr	24 hr	Von Oettingen, N. I. H. Bull. 188, 1947.	15
180	8 hr		Rpt., Army Chem. Ctr., Md., June 1949.	
	Cont	8½ hr	Lehmann, Lehrb. Arb. u. Gewerb. Hyg., 1919.	
338	Cont	10 min	Flury, "Schädliche Gase," p180, 1931.	16
27	20 min	4 da	Flury, Zschr. ges. exp. Med. <u>13:523</u> , 1921.	
7.8	Cont	21-24 hr	Levy, Q. J. Exp. Physiol. <u>34:47</u> , 1947.	17
31	Cont	50 min	Ibid	
156	Cont	2½ min	Ibid	
313	Cont	1 1/4 min	Ibid	
46.9	Cont	20 min	Flury, Abderhalden's Hdb. <u>4:7hr</u> 1306.	
119-294	1 hr	12-40 min	Ibid	
140.8	15 min	Sev da	Kensler, J. Pharm. Exp. Ther. <u>88:99</u> , 1946.	
11,894	Cont	38 min	Fühner, Biochem. Zschr. <u>115:235</u> , 1921.	18
9980	7 hr	8 hr	Svirbely, J. Ind. Hyg. Tox. <u>25:366</u> , 1943.	
16,000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	
53,210	Cont	70 min	Lehmann, Arch. f. Hyg. <u>75:1</u> , 1912.	
45,698	Cont	30 min	Luig, Dissert., Würzburg 1913.	
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	19
18,000	3 hr	0.4 hr	Adams, Arch. Ind. Hyg. Occ Med. <u>1:225</u> , 1950.	20
14,250	7 h.	0.4 hr	Ibid	
300	Cont	3 hr	Lehmann, Arch. f. Hyg. <u>7:235</u> , 1887.	21
180	Cont	6½ hr	Ibid	
300	3 hr	Sev hr	Ibid	
5600	Cont	< 1 hr	Mersbach, Zschr. ges. exp. Med. <u>63:383</u> , 1928.	22
250,000	Cont	23 min	Carpenter, J. Ind. Hyg. Tox. <u>26:69</u> , 1944.	23
			Doucet, J. Pharm. Exp. Ther. <u>101:9</u> , 1951.	24
			Ibid	
100,000	Cont	45-55 min	Patty, Pub. Health Rpt. <u>50:1217</u> , 1935.	25
10,000	Cont	>13 hr	Ibid	
			Larianow, Kazansky Med. Zhur. <u>30:440</u> , 1934.	26
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	27
19,000	37 min	Sev da	Flury, Arch. Gewerbepath. <u>5:63</u> , 1934.	
1000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	28
200,000	Cont	2 hr	Riggs, Proc. Soc. Exp. Biol. Med. <u>22:269</u> , 1925.	29

	Compound	Animal	Dose	Concentration mg/liter
30	Butyl ether	Rat	LC	21
31	p-tert. -Butyltoluene	Mouse Rat Rat Rat Rat	LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀	
32	Butyraldehyde	Rat Rat	LC ₅₀ LC	174 47
33	Cadmium oxide ¹	Mouse Rat Guinea pig Rabbit Cat Dog Monkey	LC ₁₀₀ * LC ₅₀ * LC ₅₀ LC ₁₀₀ * LC LC ₅₀ * LC ₅₀ *	44 28.8 265-370 265 2 370 1100
34	Carbon dioxide	Rat Rat Rat Rabbit Rabbit Dog	LC ₈₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC* LC*	360 450 900 540-810 450 640-820
35	Carbon disulfide	Rabbit Cat Cat	LC LC LC	16 23 122
36	Carbon monoxide	Mouse Mouse Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit Cat Cat Cat Cat Dog Pigeon Chick Sparrow	LC LC LC LC LC LC LC LC* LC LC LC LC LC LC LC LC LC	2.3-5.7 4.6 10.3 20.6 23 4.6 11.5 17.2 4.6 5.7 11.5 34.4-45.8 34.4-45.8 11.5 4.6 11.5
37	Carbon ox sulfide	Mouse Mouse Mouse Mouse	LC LC LC LC	21.8 7.3 2.9 2.2

/1/ Individual susceptibility to cadmium oxide varies greatly.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
4000	4 hr		Smyth, unpublished data, Mellon Inst.	30
248 ± 30 934 ± 130 734 ± 92 248 ± 30 165 ± 19	4 hr 1 hr 2 hr 4 hr 8 hr		Hine, Arcn. Ind. Hyg. Occ. Med. 9:227, 1954. Ibid Ibid Ibid Ibid	31
16,000	30 min 4 hr		Skog, Acta pharm. tox. 6:299, 1950. Smyth, unpublished data, Mellon Inst.	32
	15 min 15 min 15 min 15 min 15 min 15 min 15 min	7 da 7 da 7 da 7 da 4 da 14 da 28 da	Barrett, J. Ind. Hyg. Tox. 29:279, 1947. Ibid Ibid Ibid Otto, Zbl. Gewerbehyg. 2:309, 1925. Barrett, J. Ind. Hyg. Tox. 29:279, 1947. Ibid	33
200,000 250,000 500,000 300,000-500,000 250,000 354,000-457,000	Cont Cont Cont Cont Cont Cont	4 da 36 hr 6 hr 30-45 min 24 hr Sev hr	Barbour, J. Pharm. Exp. Ther. 78:11, 1943. Ibid Ibid Fjury, "Schädliche Gase," p219, 1931. Ibid Ibid	34
7400	6 1/4 hr Cont 48 min	7 da 3 hr 12 hr	Lehmann, Arch. f. Hyg. 75:1, 1912. Lehmann, Arch. f. Hyg. 20:26, 1894. Ibid	35
2000-5000 4000 9000 18,000 20,000 4000 10,000 15,000 4000 5000 10,000 30,000-40,000 30,000-40,000 10,000 4000 10,000	Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont Cont	12-15 min 45-50 min 60 min 59 min 20-20 min 30-40 min 112 min 40 min 79 min* 45 min* 15 min 3-4 min 3-5 min 4 min 32 min 4 min	Haldane, J. Physiol. 22:239, 1897. Douglas, J. Physiol. 44:304, 1912. Schwartau, Dissert., Göttingen 1896. Ibid Ibid Gruber, Arch. f. Hyg. 1:145, 1883. Gréhan, "L'Oxyde de Carbone," 1903. Ibid Wirth, Arch. exp. Path. Pharm. 157:264, 1930. Ibid Hofer, Arch. exp. Path. Pharm. 111:183, 1943. Pokrowsky, Arch. path. Anat. 36:530, 1864. Ibid Bock, Heffter's Hdb. 1:70. Gruber, Arch. f. Hyg. 1:145, 1883. Gréhan, "L'Oxyde de Carbone," 1903.	36
8900 2900 1200 900	Cont Cont Cont Survived	45 min 90 min 35 min Survived	Klemenc, Ber. deut. chem. Ges. 76:299, 1943. Ibid Ibid Ibid	37

	Compound	Animal	Dose	Concentration mg/liter
38	Carbon tetrachloride	Mouse Mouse Rat Cat	LC ₅₀ MLC LC ₅₀ LC	59.95±0.86 65-70 150.5 90
39	Chlorine	Guinea pig Rabbit Cat Dog	LC LC LC LC	0.4-0.9 0.4-0.9 0.4-0.9 1.2-1.3
40	1-Chloro-1,1-difluoroethane	Rat	LC	
41	2-Chloroethyl vinyl ether	Rat	LC ₅₀	1.1
42	Chloroform	Mouse Mouse Mouse Guinea pig Rabbit Rabbit Dog	LC ₅₀ LC LC LC LC LC LC	27.8 38.7 42.9 82.6 58.7 70.9 100
43	1-Chloro-1-nitropropane	Guinea pig Guinea pig Rabbit Rabbit	LC ₁₀₀ LC ₇₅ LC ₁₀₀ LC ₁₀₀	18 25 18 25
44	Chloropicrin	Guinea pig Rabbit Rabbit Cat	LC LC LC LC	0.8 0.8 5 0.8
45	1-Chloro-2-propanol	Rat	LC	3.9
46	Chlorotrifluoroethylene	Rat	LC	38
47	Crotonaldehyde	Rat Guinea pig	LC LC	4 5.7
48	Crotonylene	Mouse	LC	250
49	Cumene	Mouse Rat	MLC ₅₀ LC ₅₀	10 39
50	Cyanogen chloride	Mouse Rat Rat Dog Goat Goat Goat	LC LC LC LC LC LC LC	0.78 1.40 2.80 0.8 2.2 2.7 5.1

Concentration Parts per million	Exposure Time	Time of Death	Reference	
9528 10,320-13,160 23,900 14,300	7 hr 2 hr 30 min 70 min	8 hr 14 da 1-17 da	Svirbely, J. Ind. Hyg. Tox. 29:382, 1947. Lazarew, Arch. exp. Path. Pharm. 141:19, 1925. Spiegel, A. E. C. MDDC-1715, 1948. Reuss, Dissert., Würzburg 1931.	38
280-630 280-630 280-630 800-900	Cont 65 min Cont 30 min	64 min 24 min 60 min Later	Lehmann, Arch. f. Hyg. 7:233, 1887. Ibid Ibid Barbour, J. Pharm. Exp. Ther. 14:65, 1919.	39
500,000			Lester, Arch. Ind. Hyg. Occ. Med. 2:335, 1950.	40
250	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	41
5687 6150 8300 15,400 12,000 14,500 20,480	7 hr Cont 20 min Cont Cont Cont Cont	8 hr 3 hr 24 hr 10 min 2 hr 40 min 2-2½ hr	Von Oettingen, N. L. H. Bull. 191, 1949. Molitor, J. Pharm. Exp. Ther. 57:274, 1936. Wittgenstein, Arch. exp. Path. Pharm. 83:234, 1918. Ibid Rosenfeld, Arch. exp. Path. Pharm. 37:52, 1892. Madelung, Arch. exp. Path. Pharm. 62:409, 1910. Bert, C. rend. Soc. biol. 35:241, 1883.	42
3473 4960 3473 4960	Cont Cont Cont Cont	120 min 60 min 120 min 60 min	Machle, J. Ind. Hyg. Tox. 27:95, 1945. Ibid Ibid Ibid	43
110 110 743 110	20 min 20 min Cont 20 min	2 da 3 da 30 min 14 da	Ritlop, Zschr. ges. exp. Med. 106:296, 1939. Ibid Mayer, C. rend. Acad. sc. 171:1396, 1920. Ritlop, Zschr. ges. exp. Med. 106:296, 1939.	44
1000	4 hr		Smyth, unpublished data, Mellon Inst.	45
8000	4 hr		Smyth, unpublished data, Mellon Inst.	46
2000	30 min 30 min	2 hr	Skog, Acta pharm. tox. 6:299, 1950. Smyth, unpublished data, Mellon Inst.	47
90,000	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	48
2040 8000	7 hr 4 hr	8-24 hr	Werner, J. Ind. Hyg. Tox. 26:264, 1944. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	49
310 318	7½ min 10 min 5 min 7½ min 7-10 min 10-20 min 1-2 min		Flury, Abderhalden's Hdb. 4.7b:1341. Fuhr, Rpt. Army Chem. Ctr., April 1944. Ibid Flury, Abderhalden's Hdb. 4.7b:1341. McGrath, Rpt. Army Chem. Ctr., March 1944. Ibid Ibid	50

	Compound	Animal	Dose	Concentration mg/liter
51	Cyclohexadiene	Mouse	LC	45
52	Cyclohexane	Mouse Rabbit	LC LC ₁₀₀	60-70 89.6
53	Cyclohexanone	Rat	LC ₅₀	32
54	Cyclohexene	Mouse	LC	45-60
55	Cyclopentane	Mouse	LC	110
56	Decaborane	Mouse	LC*	
57	Decahydronaphthalene	Rat	LC ₅₀	2.8
58	1, 1-Diacetoxypentene-2	Rat	LC ₅₀	0.06
59	Di-(acetylcyanide)	Mouse Rat Rabbit	MLC MLC MLC	
60	Diborane	Mouse Rat	LC ₅₀ LC ₅₀ *	
61	1, 1-Dibromoethane	Guinea pig	LC	30.7
62	n-Dibutylamine	Rat	LC	2.6
63	2, 2'-Dichloroacetyl chloride	Rat	LC ₅₀	12
64	1, 4-Dichlorobutene-2	Rat	LC ₅₀	0.32
65	1, 1-Dichloroethane	Mouse Rat	MLC LC	70 64.7
66	1, 2-Dichloroethane	Mouse Mouse Rat Rat Rat Rat Guinea pig Rabbit	MLC LC ₁₀₀ LC ₁₀₀ LC ₅₀ LC ₅₀ LC ₅₀ LC ₁₀₀ LC ₁₀₀	150-200 12.4 12.4 4 12.4 12.4
67	Di-(2-chloroethoxy) methane	Rat	LC ₅₀	0.44
68	1, 2-Dichloroethyl acetate	Rat	LC ₅₀	0.10
69	Dichloroethylene	Mouse Guinea pig	LC LC	76.2 155.2

Concentration Parts per million	Exposure Time	Time of Death	Reference	
13,770	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	51
14,460-20,570	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	52
26,572	1 hr		Treon, J. Ind. Hyg. Tox. 25:323, 1943.	
8000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	53
13,410-17,880	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	54
38,390	2 hr		Lazarew, Arch. exp. Path. Pharm. 149:116, 1930.	55
26	4 hr	48 hr	Krackow, Arch. Ind. Hyg. Occ. Med. 8:335, 1953.	56
500	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	57
5	4 hr		Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	58
73	8 hr		Treon, Arch. Ind. Hyg. Occ. Med. 4:573, 1951.	59
66	8 hr		Ibid	
73	8 hr		Ibid	
175-200	15 min		Krackow, Arch. Ind. Hyg. Occ. Med. 28:335, 1953.	60
50	4 hr		Ibid	
4000	1 hr	6-18 hr	Thomas, Pub. Health Rpt. 42:370, 1927.	61
500	4 hr		Smyth, unpublished data. Mellon Inst.	62
2000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	63
62	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	64
17,290	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	65
16,000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	
56,850-75,803	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	66
3000	7 hr	1 da	Heppel, J. Pharm. Exp. Ther. 84:53, 1945.	
3000	7 hr	1 da	Ibid	
1000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	
12,000	0.53 hr	2-7 da	Spencer, Arch. Ind. Hyg. Occ. Med. 4:402, 1951.	
3000	2.75 hr	2-7 da	Ibid	
1000	3.7 hr	2-7 da	Ibid	
3000	7 hr	1-2 da	Heppel, J. Pharm. Exp. Ther. 84:53, 1945.	
3000	7 hr	1-3 da	Ibid	
62	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	67
16	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	68
14,270	Cont	2 hr*	Wittgenstein, Arch. exp. Path. Pharm. 83:234, 1918.	69
35,820	Cont	1 hr	Ibid	

	Compound	Animal	Dose	Concentration mg/liter
70	2, 2'-Dichloroethyl ether	Guinea pig	LC ₅₀	5.9
71	2, 2'-Dichloroisopropyl ether	Rat Guinea pig	LC LC	14 7
72	Dichloromethane	Mouse Mouse	MLC LC ₅₀	50 56.23±0.34
73	1, 1-Dichloro-1-nitromethane	Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit	LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀	0.58 14.4 57.7 0.58 14.4 57.7
74	1, 2-Dichloropropane	Mouse Rat	LC ₁₀₀ LC ₅₀	10.4 9.2
75	2, 3-Dichloropropanol	Rat	LC ₅₀	2.6
76	2, 3-Dichloropropionaldehyde	Rat	LC ₅₀	0.083
77	Diethoxychlorosilane	Rat	LC ₅₀	25
78	1, 2-Diethoxyethane	Rat	LC ₅₀	38.6
79	Diethylamine	Rat	LC ₅₀	12
80	Diethyl-2-chlorovinyl phosphate	Rat	LC ₅₀	
81	Diethyl fluorophosphate	Mouse	LC ₅₀	0.50
82	Diethyl ketone	Rat	LC	76.7
83	Diethyl sulfate	Rat	LC	3.15
84	1, 1-Difluoro-1, 2-dibromoethane	Rat Rat	LC LC	0.5-1.0% ¹ 5% ¹
85	1, 1-Difluoroethane	Rat	LC	50-55% ¹
86	1, 1-Difluoroethylene	Rat		80% ¹
87	Diisobutyl ketone	Rat	LC ₅₀	11.6
88	Diisopropyl fluorophosphate	Mouse Mouse Mouse Mouse Mouse Mouse Rat	LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀	5 2.65 0.75 0.60 0.44 0.185 4.2

(continued on next page)

/1/ By volume in air. /2/ No severe toxic effects followed this exposure.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
1000	45 min		Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948.	70
2000	4 hr		Smyth, unpublished data, Mellon Inst.	71
1000	8 hr		Ibid	
14,400	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>141:19</u> , 1929.	72
16,183	Cont	8 hr	Svirbely, J. Ind. Hyg. Tox. <u>29:382</u> , 1947.	
98	300 min	Sev hr	Machle, J. Ind. Hyg. Tox. <u>27:95</u> , 1945.	73
2425	135 min	Sev hr	Ibid	
9797	10 min	Sev hr	Ibid	
98	300 min	Sev hr	Ibid	
2425	135 min	Sev hr	Ibid	
9797	10 min	Sev hr	Ibid	
2200	Cont	<7 hr	Heppel, J. Ind. Hyg. Tox. <u>28:1</u> , 1946.	74
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	
500	4 hr		Smyth, J. Ind. Hyg. Tox. <u>30:63</u> , 1948.	75
16	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	76
4000	4 hr		Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	77
8000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	78
4000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	79
22.4	1 hr		Kodama, Arch. Ind. Hyg. Occ. Med. <u>9:45</u> , 1954.	80
78	10 min	1 hr	Silver, J. Ind. Hyg. Tox. <u>30:307</u> , 1948.	81
16,000	4 hr		Smyth, unpublished data, Mellon Inst.	82
500	4 hr		Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	83
	18 hr		Lester, Arch. Ind. Hyg. Occ. Med. <u>2:335</u> , 1950.	84
	2 hr		Ibid	
		10-25 min	Lester, Arch. Ind. Hyg. Occ. Med. <u>2:335</u> , 1950.	85
	18 hr ²		Lester, Arch. Ind. Hyg. Occ. Med. <u>2:335</u> , 1950.	86
2000	4 hr.		Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	87
664	1 min	2 hr	Kilby, Brit. J. Pharm. <u>2:234</u> , 1947.	88
350	2 min	2 hr	Ibid	
99.6	5 min	2 hr	Ibid	
80	10 min	1 hr	Silver, J. Ind. Hyg. Tox. <u>30:307</u> , 1948.	
58.4	10 min	2 hr	Kilby, Brit. J. Pharm. <u>2:234</u> , 1947.	
24.6	30 min	2 hr	Ibid	
558.2	1 min	2 hr	Ibid	

	Compound	Animal	Dose	Concentration mg/liter
88	Diisopropyl fluorophosphate (concluded)	Rat Rat Rat Rat	LC ₅₀ LC ₅₀ LC ₅₀ LC ₅₀	2 0.7 0.36 0.18
89	1, 1-Dimethoxyethane	Rat	LC ₅₀	33
90	Dimethyl-1-carbomethoxy-1-propen-2-yl phosphate	Rat?	LC ₅₀	
91	Dimethylcyclohexane	Mouse	LC	25-30
92	Dimethyl disulfide	Rat	LC	20
93	Dimethyl fluorophosphate	Mouse	LC ₅₀	0.29
94	Dimethyl phthalate	Cat	LC	9.3
95	Dimethyl sulfate	Rat	LC ₅₀	0.17
96	Dimethyl sulfide	Rat	LC	140
97	3, 5-Dimethyltetrahydropyrone-1, 4	Rat	LC ₅₀	42
98	1, 4-Dioxane	Mouse Mouse Mouse Rat Rat Guinea pig Guinea pig Rabbit Cat	LC LC LC LC LC LC LC LC LC	7.5 36 18 36 18 36 18 18 65
99	1, 3-Dioxolane	Rat	LC	97
100	Diphenyl ¹	Rat	LC	0.3
101	Divinyl ether	Mouse	LC ₅₀	2.1 mM
102	1, 2-Epoxy-3-chloropropane	Rat	LC ₅₀	0.94
103	Ethanol	Mouse Rat Rat Rat Guinea pig	LC LC LC LC LC	55 18.8-22.5 37.6-43.3 84.6 84.6
104	Ether	Mouse Mouse Rat	LC ₅₀ LC LC	127.4 133.4 194

(continued on next page)

/1/ As a dust. /2/ 49 exposures of 7 hours duration each.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
364.8	2 min	2 hr	Kilby, Brit. J. Pharm. 2:234, 1947.	88
93	5 min	2 hr	Ibid	
47.8	10 min	2 hr	Ibid	
23.9	30 min	2 hr	Ibid	
16,000	4 hr		Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	89
14.4	1 hr		Kodama, Arch. Ind. Hyg. Occ. Med. 9:45, 1954.	90
5458-6549	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	91
5000	Cont	15 min	Ljunggren, Acta physiol. scand. 5:248, 1943.	92
56	10 min	6 hr	Silver, J. Ind. Hyg. Tox. 30:307, 1948.	93
1213	390 min	3 da	Eller, Dissert., Würzburg 1937.	94
32	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	95
54,000	Cont	15 min	Ljunggren, Acta physiol. scand. 5:248, 1943.	96
8000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	97
2085	8 hr	21½ hr	Klimmer, Dissert., Würzburg 1937.	98
10,000	Cont	3 hr	Schrenk, J. Ind. Hyg. Tox. 18:448, 1936.	
5000	Cont	3-51 hr	Ibid	
10,000	Cont	3-10½ hr	Ibid	
5000	Cont	9-15 hr	Ibid	
10,000	Cont	3-7½ hr	Ibid	
5000	Cont	43.5 hr	Ibid	
5000	Cont	16.5 hr	Ibid	
18,000	258 min	4-5 da	Klimmer, Dissert., Würzburg 1937.	
32,000	4 hr		Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	99
	7 hr ²		Deichmann, J. Ind. Hyg. Tox. 29:1, 1947.	100
			Mollitor, J. Am. Med. Assoc. 109:656, 1937.	101
250	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	102
29,000	Cont		Bachem, Arch. exp. Path. Pharm. 122:69, 1927.	103
10,000-12,000	4 hr	24 hr	Loewy, Biochem. Zschr. 86:125, 1918.	
20,000-23,000	Cont	10 hr	Ibid	
45,000	Cont	8 3/4 hr	Ibid	
45,000	Cont	11 hr*	Ibid	
42,000	Cont	3 hr	Mollitor, J. Pharm. Exp. Ther. 57:274, 1936.	104
44,000	Cont	97 min*	Kärber, Arch. exp. Path. Pharm. 142:1, 1929.	
64,000	4 hr		Smyth, unpublished data, Mellon Inst.	

	Compound	Animal	Dose	Concentration mg/liter
104	Ether (concluded)	Rabbit Dog	LC LC	321.2 230.2-583.3
105	2-Ethoxyethanol	Mouse Rat	MLC LC ₅₀	6.7 14.8
106	2-Ethoxyethanol acetate	Rat	LC ₅₀	10.8
107	3-Ethoxypropionaldehyde	Rat	LC ₅₀	1
108	Ethyl acetate	Mouse Rat Cat	LC ₅₀ LC LC	44 57.7 61
109	Ethyl acrylate	Rat	LC	8.2
110	Ethylbenzene	Mouse	LC	45
111	Ethyl bromide	Rat Rat	LC LC	89.2 133.8
112	Ethylbutylketone	Rat	LC	18.2
113	2-Ethylbutyraldehyde	Rat	LC ₅₀	16.3
114	Ethylcyclohexane	Mouse	LC	35
115	Ethylene	Mouse	LC	1087
116	Ethylene chlorohydrin	Rat	LC ₅₀	0.10
117	Ethylenediamine	Rat	LC	9.9
118	Ethylene glycol monobutyl ether	Mouse	MLC	3.4
119	Ethylene glycol monoisopropyl ether	Mouse	MLC	3.4
120	Ethylene glycol monomethyl ether	Mouse	MLC	4.6
121	Ethylene glycol monopropyl ether	Mouse	MLC	6.5
122	Ethyleneimine	Mouse Rat	LC ₅₀ LC ₅₀	1/3±0.42 0.44
123	Ethylene oxide	Rat Rat Rat Rat Guinea pig Guinea pig Guinea pig	LC ₅₀ LC LC LC LC LC LC	7.2 104 180 450 90-180 36 9

Concentration Parts per million	Exposure Time	Time of Death	Reference	
100,000 76,000-192,500			Flury, Abderhalden's Hdb. 4:7b:1294. Ibid	104
1820 2000	7 hr 4 hr	3 wk	Werner, J. Ind. Hyg. Tox. 25:157, 1943. Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	105
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	106
250	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	107
12,330 16,000 17,000	Cont 8 hr 1 hr	3 hr 70 min	Speaiman, Indust. Med. 14:292, 1945. Smyth, unpublished data, Mellon Inst. Flury, Arch. Gewerbepath. 5:16, 1934.	108
2000	4 hr		Pozzani, J. Ind. Hyg. Tox. 31:311, 1949.	109
10,382	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	110
20,000 30,000	1 hr 1 hr	Delayed 3-12 hr	Flury, Abderhalden's Hdb. 4:7b:1315. Ibid	111
4000	4 hr		Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	112
4000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	113
7605	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:223, 1929.	114
950,000	Cont	5-10 min	Flury, Arch. exp. Path. Pharm. 138:65, 1928.	115
32	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	116
4000	8 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	117
700	7 hr	3 wk	Werner, J. Ind. Hyg. Tox. 25:157, 1943.	118
700	7 hr	3 wk	Werner, J. Ind. Hyg. Tox. 25:157, 1943.	119
1480	7 hr	3 wk	Werner, J. Ind. Hyg. Tox. 25:157, 1943.	120
1530	7 hr	3 wk	Werner, J. Ind. Hyg. Tox. 25:157, 1943.	121
2240 250	10 min 2 hr	10 da	Silver, J. Ind. Hyg. Tox. 30:7, 1948. Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	122
4000 58,000 100,000 250,000 50,000-100,000 20,000 5000	4 hr Cont 39 min Cont 1½ hr 1 hr	5 hr 24 hr Instant Few min 24 hr 40 hr	Carpenter, J. Ind. Hyg. Tox. 31:343, 1949. Henderson, J. Pharm. Exp. Ther. 57:394, 1936. Stehle, Arch. exp. Path. Pharm. 104:82, 1924. Ibid Waite, Pub. Health Rpt. 45:1832, 1930. Koelsch, Zbl. Gewerbehyg. 264, 1939. Ibid	123

	Compound	Animal	Dose	Concentration mg/liter
124	Ethyl formate	Rat	I.C	24.2
125	2-Ethylhexaldehyde	Rat	LC	53.5
126	2-Ethylhexene-1	Rat	LC ₅₀	18.6
127	2-Ethylhexylamine	Rat	LC	1.3
128	2-Ethylhexyl chloride	Rat	LC ₅₀	24.4
129	4-Ethylmorpholine	Rat	LC	18.8
130	Fluoroethylene	Rat		80% ¹
131	Formaldehyde	Rat Rat Cat Cat	LC ₅₀ LC LC LC	1 0.31 6 9.6
132	Furan	Rat	LC	84.5
133	Gasoline	Mouse	LC	123
134	Germanium hydride	Mouse	LC	6.3
135	Heptane	Mouse Mouse	LC LC	65 75
136	Hexachloropropane	Rat	LC ₅₀	4.4
137	Hexachloropropylene	Mouse Rat Rabbit	LC ₁₀₀ LC ₁₀₀ LC ₁₀₀	
138	Hexane	Mouse Mouse	LC LC	154 120-150
139	2,5-Hexanedione	Rat	LC ₅₀	9.4
140	2-Hexanone	Mouse	LC ₅₀	36.8
141	"Hexone"	Rat Guinea pig Guinea pig Guinea pig Guinea pig	LC LC LC LC LC	16.4 40.9 81.8 26.5 4
142	Hexylene	Mouse	LC	130-150
143	Hydrazine	Rat	LC ₅₀	128-576 ³

^{1/1} By volume in air. ^{2/2} Without serious toxic effects. ^{3/3} Milligrams per cubic meter.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
8000	4 hr		Smyth, unpublished data, Mellon Inst.	124
8000	4 hr		Smyth, unpublished data, Mellon Inst.	125
4000	4 hr		Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	126
250	4 hr		Smyth, J. Ind. Hyg. Tox. <u>31:60</u> , 1949.	127
4000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	128
4000	4 hr		Smyth, unpublished data, Mellon Inst.	129
	12½ hr	Survived ²	Lester, Arch. Ind. Hyg. Occ. Med. <u>2:335</u> , 1950.	130
250 4890 7825	30 min 4 hr 3 hr Cont	- 3½ hr 3½ hr	Skog, Acta pharm. tox. <u>6:299</u> , 1950. Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949. Iwanoff, Arch. f. Hyg. <u>73:387</u> , 1911. Ibid	131
30, 400	Cont	8-48 hr	Henderson, J. Pharm. Exp. Ther. <u>57:394</u> , 1936.	132
	Cont	104 min	Fühner, Biochem. Zschr. <u>115:235</u> , 1921.	133
2000	60 min	24 hr	Paneth, Ber. deut. chem. Ges. <u>57:1925</u> , 1924.	134
15, 900 18, 337	Cont 2 hr	30 min	Fühner, Biochem. Zschr. <u>115:235</u> , 1921. Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	135
425	30 min	14 da	Spiegel, A. E. C. MDDC-1715, 1948.	136
530 425 310	30 min 30 min 30 min	1 da 2-14 da 6-7 da	Spiegel, A. E. C. MDDC-1715, 1948. Ibid Ibid	137
43, 736 34, 000-42, 600	Cont 2 hr	120 min	Fühner, Biochem. Zschr. <u>115:235</u> , 1921. Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	138
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	139
9000	1 hr	7 da	Hart, Univ. Cal. Publ. Pharmacol. <u>1:161</u> , 1939.	140
4000 10, 000 20, 000 6500 1000	4 hr Cont Cont Cont 18½ hr	4 hr 70 min 9 hr Delayed	Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951. Specht, Pub. Health Rpt. <u>53:292</u> , 1938. Schrenk, Pub. Health Rpt. <u>51:624</u> , 1935. Ibid Ibid	141
37, 830-43, 650	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	142
	2 hr		Krop, Arch. Ind. Hyg. Occ. Med. <u>9:199</u> , 1954.	143

	Compound	Animal	Dose	Concentration mg/liter
144	Hydrazoic acid	Rat Guinea pig Cat Cat Cat Cat	LC ₁₀₀ LC ₅₀ LC LC LC LC	2.3 1.9 0.2 0.3 0.5 1
145	Hydrochloric acid	Guinea pig Guinea pig Rabbit Rabbit	LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀	1 6.5 1 6.5
146	Hydrocyanic acid	Cat Cat Dog Dog Monkey Monkey	LC LC LC LC LC LC	0.2 0.35 0.2 0.35 0.2 0.35
147	Hydrofluoric acid	Guinea pig Guinea pig Guinea pig Rabbit Rabbit Rabbit	LC LC LC LC LC LC	0.04 0.24 0.53 0.04 0.24 0.53
148	Hydrogen selenide	Guinea pig Guinea pig Guinea pig	LC ₅₀ * LC ₅₀ * LC ₅₀ *	0.012 0.020 0.35
149	Hydrogen sulfide	Mouse Rat Rabbit Cat Dog	LC LC LC LC LC	1.12 1.5 1.5 1.4 0.7
150	Iodine	Dog	MLC	14-18
151	Isobutyraldehyde	Rat	LC	47
152	Isophorone	Guinea pig	LC	25.9
153	Isoprene	Mouse	LC	140
154	Isopropyl acetate	Rat	LC	137
155	Isopropyl alcohol	Rat	LC ₅₀	40
156	Isopropylamine	Rat	LC	19.4

Concentration Parts per million	Exposure Time	Time of Death	Reference	
1300 1040 113.8 170.7 284.5 569	Cont Cont Cont Cont Cont 15 min	1/2-3/4 hr 1 hr 500 min 240 min 60 min >65 min	Fairhall, Pub. Health Rpt. <u>58:607</u> , 1943. Ibid Hildebrandt, Arch.exp.Path.Pharm. <u>187:155</u> , 1937. Ibid Ibid Ibid	144
670 4290 670 4290	2-6 hr Cont 2-6 hr Cont	30 min 30 min	Machle, J. Ind. Hyg. Tox. <u>24:222</u> , 1942. Ibid Ibid Ibid	145
181 317 181 317 181 317	Cont Cont Cont Cont Cont Cont	5-10 min Instant 5-10 min Instant 5-10 min Instant	Flury, Abderhalden's Hdb. <u>4.7b:1340</u> . Ibid Ibid Ibid Ibid Ibid	146
50 250 660 50 250 660	Cont Cont Cont Cont Cont Cont	2 hr 1 hr 30 min Survived 3 hr 1 1/2 hr	Ronzani, Arch. f. Hyg. <u>70:217</u> , 1909. Ibid Ibid Ibid Ibid Ibid	147
3.6 6 105.7	30 min 30 min 10 min	1-15 da 1-30 da 1-5 da	Dudley, Pub. Health Rpt. <u>52:1217</u> , 1937. Ibid Ibid	148
800 1000 1000 900 500	Cont Cont Cont Cont Cont	10-30 min 15 min 2 min 5 min 1 min	Flury, Abderhalden's Hdb. <u>4.7b:1396</u> . Ljunggren, Acta physiol. scand. <u>5:248</u> , 1943. Lehmann, Arch. f. Hyg. <u>14:135</u> , 1892. Ibid Ibid	149
2700-3460	Cont	4-16 hr	Luckhardt, J. Pharm. Exp. Ther. <u>15:1</u> , 1920.	150
16,000	4 hr		Smyth, unpublished data, Mellon Inst.	151
4600	8 hr	Later	Smyth, J. Ind. Hyg. Tox. <u>22:477</u> , 1940.	152
51,800	2 hr		Lavarew, Kazansky Med. Zhur. <u>30:440</u> , 1934.	153
32,000	4 hr		Smyth, unpublished data, Mellon Inst.	154
16,000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	155
8000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	156

Concentration Parts per million	Exposure Time	Time of Death	Reference	
1300	Cont	1/2-3/4 hr	Fairhall, Pub. Health Rpt. <u>58</u> :607, 1943.	144
1040	Cont	1 hr	Ibid	
113.8	Cont	500 min	Hildebrandt, Arch.exp.Path.Pharm. <u>187</u> :155, 1937.	
170.7	Cont	240 min	Ibid	
284.5	Cont	60 min	Ibid	
569	15 min	>65 min	Ibid	
670	2-6 hr		Machle, J. Ind. Hyg. Tox. <u>24</u> :222, 1942.	145
4290	Cont	30 min	Ibid	
670	2-6 hr		Ibid	
4290	Cont	30 min	Ibid	
181	Cont	5-10 min	Flury, Abderhalden's Hdb. <u>4</u> , 7b:1340.	146
317	Cont	Instant	Ibid	
181	Cont	5-10 min	Ibid	
317	Cont	Instant	Ibid	
181	Cont	5-10 min	Ibid	
317	Cont	Instant	Ibid	
50	Cont	2 hr	Ronzani, Arch. f. Hyg. <u>70</u> :217, 1909.	147
250	Cont	1 hr	Ibid	
660	Cont	30 min	Ibid	
50	Cont	Survived	Ibid	
250	Cont	3 hr	Ibid	
660	Cont	1 1/2 hr	Ibid	
3.6	30 min	1-15 da	Dudley, Pub. Health Rpt. <u>52</u> :1217, 1937.	148
6	30 min	1-30 da	Ibid	
105.7	10 min	1-5 da	Ibid	
800	Cont	10-30 min	Flury, Abderhalden's Hdb. <u>4</u> , 7b:1396.	149
1000	Cont	15 min	Ljunggren, Acta physiol. scand. <u>5</u> :248, 1943.	
1000	Cont	2 min	Lehmann, Arch. f. Hyg. <u>14</u> :135, 1892.	
900	Cont	5 min	Ibid	
500	Cont	1 min	Ibid	
2700-3460	Cont	4-16 hr	Luckhardt, J. Pharm. Exp. Ther. <u>15</u> :1, 1920.	150
16,000	4 hr		Smyth, unpublished data, Mellon Inst.	151
4600	8 hr	Later	Smyth, J. Ind. Hyg. Tox. <u>22</u> :477, 1940.	152
51,800	2 hr		Lazarow, Kazansky Med. Zhur. <u>30</u> :440, 1934.	153
32,000	4 hr		Smyth, unpublished data, Mellon Inst.	154
16,000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31</u> :343, 1949.	155
8000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951.	156

	Compound	Animal	Dose	Concentration mg/liter
157	Isopropyl ether	Rat Guinea pig Rabbit Monkey	LC LC LC LC	66.7 250 250 250
158	Ketene	Mouse Mouse Rat Rat Guinea pig Guinea pig Rabbit Cat Cat Monkey	LC ₅₀ MLC LC ₁₀₀ MLC LC ₅₀ MLC LC LC ₅₀ MLC MLC	0.6 0.089 0.43 0.64 0.63 0.85 1.70 0.63 1.26 0.34
159	2-Mercaptoethanol	Rat	LC	0.80
160	Mesityl oxide	Mouse Rat Rat Rat Guinea pig Guinea pig Guinea pig	LC ₅₀ LC ₁₀₀ LC ₁₀₀ LC ₃₀ LC ₁₀₀ LC ₁₀₀ LC ₃₀	48.1 52.1 10 2 52.1 10 2
161	Methacrylaldehyde	Rat	LC	0.7
162	Methanol	Mouse Rat Rat Cat	LC LC LC LC	317-475 227.5 83.6 380
163	2-Methoxyethanol	Rat	LC ₅₀	6.2
164	Methyl acetate	Rat Cat	LC LC	97 106
165	Methyl acrylate	Rat	LC ₅₀	3.5
166	Methylal	Mouse	LC ₅₀	57
167	Methyl amyl ketone	Rat	LC	18.6
168	2-Methyl aziride	Rat	LC ₅₀	1.2
169	Methyl bromide	Rat Rat Rat Rat Rabbit	LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀	0.63 10 0.84 50 10

(continued on next page)

/1/ Later.

Concentration. Parts per million	Exposure Time	Time of Death	Reference	
16,000	4 hr		Smyth, unpublished data. Mellon Inst.	157
60,000	Cont	78 min	Machle, J. Ind. Hyg. Tox. 21:72, 1939	
60,000	Cont	35 min	Ibid	
60,000	Cont	20 min	Ibid	
350	10 min	55 min	Wooster, J. Ind. Hyg. Tox. 29:56, 1947.	158
50	10 min	1-7 hr	Treon, J. Ind. Hyg. Tox. 31:209, 1949.	
250	10 min	2½ hr	Wooster, J. Ind. Hyg. Tox. 29:56, 1947.	
375	10 min	>3-<10hr	Treon, J. Ind. Hyg. Tox. 31:209, 1949.	
366	10 min	8-12 hr	Wooster, J. Ind. Hyg. Tox. 29:56, 1947.	
500	10 min	5.5 hr	Treon, J. Ind. Hyg. Tox. 31:209, 1949.	
1000	10 min	0.8 hr	Ibid	
366	10 min	8-12 hr	Wooster, J. Ind. Hyg. Tox. 29:56, 1947.	
750	10 min	2.83 hr	Treon, J. Ind. Hyg. Trx. 31:209, 1949.	
200	10 min	7.67 hr	Ibid	
250	8 hr		Smyth, unpublished data. Mellon Inst.	159
12,000	1 hr	7 da	Hart, Univ. Cal. Publ. Pharmacol. 1:161, 1939.	160
13,000	Cont	1 hr	Smyth, J. Ind. Hyg. Tox. 24:46, 1942.	
2500	Cont	8 hr	Ibid	
500	Cont	8 hr	Ibid	
13,000	Cont	1 hr	Ibid	
2500	Cont	8 hr	Ibid	
500	Cont	8 hr	Ibid	
250	4 hr	14 da	Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	161
242,000-363,000	Cont	3-4½ hr	Weese, Arch. exp. Path. Pharm. 135:118, 1928.	162
174,000	Cont		Fachem, Arch. exp. Path. Pharm. 122:69, 1927.	
64,000	8 hr		Smyth, unpublished data. Mellon Inst.	
290,000	3½ hr		Flury, "Schädliche Gase," p347, 1931.	
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	163
32,000	4 hr		Smyth, unpublished data. Mellon Inst.	164
35,000	30 min	5 min ¹	Flury, Arch. Gewerbepath. 5:8, 1936.	
1000	4 hr		Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	165
	Cont	7 hr	Weaver, Brit. J. Indust. M. 8:279, 1951.	166
4000	4 hr		Smyth, unpublished data. Mellon Inst.	167
500	4 hr		Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	168
514	Cont	6 hr	Irish, J. Ind. Hyg. Tox. 22:218, 1940.	169
2570	Cont	42 min	Ibid	
5140	Cont	24 min	Ibid	
12,850	Cont	6 min	Ibid	
2570	Cont	132 min	Ibid	

	Compound	Animal	Dose	Concentration mg/liter
169	Methyl bromide (concluded)	Rabbit Rabbit	LC ₁₀₀ LC ₁₀₀	20 50
170	2-Methyl-1-butene-3-one	Rat	LC ₅₀	0.42
171	Methyl butyl ketone	Rat	LC	32.7
172	3-Methylbutane	Mouse	LC	250
173	Methyl chloride	Mouse Guinea pig Guinea pig	LC ₅₀ MLC ₅₀ * LC	0.5 0.15 43-51
174	Methylcyclohexane	Mouse	LC	40-50
175	2-Methyl-1,3-dioxolane	Rat	LC ₅₀	57.7
176	2-Methyl-5-ethylpyridine	Rat	LC	5
177	Methyl formate	Guinea pig	LC	122.7
178	2-Methylhexane	Mouse	LC	70-80
179	Methyl iodide	Mouse Mouse Mouse	LC LC LC	0.04-0.4 2.2-3.2 4.3
180	Methyl mercaptan	Rat	LC	20
181	Methylmethacrylate	Mouse	LC ₅₀	55
182	Methylmorpholine	Rat	LC	16.5
183	2-Methylpyridine	Rat	LC	15.2
184	Methyl silicate	Rat	LC	1.2
185	Monochloro-monobromo-methane	Mouse Mouse Mouse	LC ₅₀ LC ₅₀ LC ₅₀	12.03±0.16 13.25±0.27 15.85±0.71
186	Mustard gas	Dog Dog	LC LC	0.01 0.5
187	Nickel carbonyl	Rabbit Cat Dog	LC LC LC	1.3 2.8 2.5
188	Nitroethane	Guinea pig Guinea pig Rabbit	LC ₁₀₀ LC ₅₀ LC ₁₀₀	92.1 92.1 15.3
	(continued on next page)			

Concentration Parts per million	Exposure Time	Time of Death	Reference	
5140 12,850	Cont Cont	84 min 30 min	Irish, J. Ind. Hyg. Tox. <u>22:218</u> , 1940. Ibid	169
125	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	170
8000	4 hr		Smyth, unpublished data, Mellon Inst.	171
90,000	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	172
3146 75 21,000-25,000	7 hr Cont Cont	8 hr 72 hr 2 hr	Von Oettingen, N. I. H. Bull. 191, 1949. White, J. Ind. Hyg. Tox. <u>13:273</u> , 1951. Nuckolis, Underwriters' Lab. Rpt. 2375, 1933.	173
9000-12,000	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	174
16,000	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	175
1000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	176
50,000	Cont	20-30min	Schrenk, Pub. Health Rpt. <u>51:1329</u> , 1936.	177
7000-8000	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143:223</u> , 1929.	178
6,8-68 380-550 740		24 hr 2-2½ hr 1 hr	Bachem, Arch. exp. Path. Pharm. <u>122:69</u> , 1927. Ibid Ibid	179
10,000	Cont	15 min	Ljunggren, Acta physiol. scand. <u>5:248</u> , 1943.	180
13,500	3 hr	5 hr	Speelman, Indust. Med. <u>14:292</u> , 1945.	181
4000	4 hr		Smyth, unpublished data, Mellon Inst.	182
4000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	183
250	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	184
1550 1707 2045	7 hr 7 hr 7 hr	72 hr 24 hr 8 hr	Svirbely, J. Ind. Hyg. Tox. <u>29:382</u> , 1947. Ibid Ibid	185
1,0 77	Cont Cont	8 hr 5 min	Marshall, J. Am. Med. Assoc. <u>73:684</u> , 1919. Ibid	186
180 400 360	50½ min 75½ min 75½ min	69.2 hr 88.93 hr Ibid	Armit, J. Hygiene <u>8:565</u> , 1908. Ibid Ibid	187
30,000 30,000 5000	1,25 hr 1 hr 3 hr	24 hr 24 hr 24 hr	Machle, J. Ind. Hyg. Tox. <u>22:315</u> , 1940. Ibid Ibid	188

	Compound	Animal	Dose	Concentration mg/liter
188	Nitroethane (concluded)	Rabbit	LC ₁₀₀	30.6
		Rabbit	LC ₁₀₀	92.1
189	Nitrogen oxide	Mouse	LC	
		Mouse	LC	
		Guinea pig	LC	
		Cat	LC	
		Cat	LC	
190	Nitromethane	Guinea pig	LC ₁₀₀	25
		Guinea pig	LC ₁₀₀	250
		Rabbit	LC ₁₀₀	62
		Rabbit	LC ₁₀₀	250
191	1-Nitropropane	Guinea pig	LC ₁₀₀	18.2
		Guinea pig	LC ₁₀₀	36.4
		Rabbit	LC ₁₀₀	18.2
		Rabbit	LC ₁₀₀	36.4
192	2-Nitropropane	Rat	MLC	5.4
		Guinea pig	MLC	16.5
		Rabbit	MLC	8.5
		Cat	MLC	2.55
193	Nitrous oxide	Rat		2200 ¹
194	p-Oxathiane	Rat	LC	34
195	Ozone	Mouse	LC	0.04
		Mouse	LC	0.01
		Mouse	LC	0.001
		Rat	LC	0.03
		Guinea pig	LC	0.001
		Rabbit	LC	0.001
196	Pentaborane	Mouse	LC ₅₀	37
		Rat	LC ₅₀	50
197	Pentachloroethane	Mouse	MLC	35
198	Pentane	Mouse	LC	377
199	2, 4-Pentanedione	Rat	LC ₅₀	4.1
200	Pentalone	Guinea pig	LC	17.6
		Guinea pig	LC	45.8
		Guinea pig	LC	176
201	3-Pentene-2-one	Rat	LC ₅₀	0.86
202	Phenyldichlorarsine	Guinea pig	LC ₁₀ ^a	0.4

¹/1/ Millimeters pressure.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
10,000 30,000	3 hr 1.25 hr	24 hr 24 hr	Machle, J. Ind. Hyg. Tox. <u>22:315</u> , 1940. Ibid	188
500 4500 30,000 330 2100	Cont Cont Cont Cont Cont	30 min 4-5 min 5-9 min 60 min 25 min	LaTowsky, J. Ind. Hyg. Tox. <u>23:129</u> , 1941. Ibid Ibid Ibid Ibid	189
1000 10,000 2500 10,000	30 hr 6 hr 12 hr 6 hr	24 hr 24 hr 24 hr 24 hr	Machle, J. Ind. Hyg. Tox. <u>22:315</u> , 1940. Ibid Ibid Ibid Ibid	190
5000 10,000 5000 10,000	3 hr 3 hr 3 hr 3 hr	24 hr 24 hr 24 hr 24 hr	Machle, J. Ind. Hyg. Tox. <u>22:315</u> , 1940. Ibid Ibid Ibid Ibid	191
	4.5 hr 5.5 hr 4.5 hr 4.5 hr		Treon, Arch. Ind. Hyg. Occ. Med. <u>5:52</u> , 1952. Ibid Ibid Ibid	192
			Bock, Heffter's Hdb. <u>1:132</u> .	193
8000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4:119</u> , 1951.	194
20 5 0.5 15 0.5 0.5	2 hr Cont 6 hr 3½ hr Cont Cont	12 hr 5 hr 6½ hr 12 hr 5½ hr 3½ hr	Hill, Proc. Roy. Soc., Lond. B <u>84:404</u> , 1912. Konrich, Zschr. Hyg. Infkr. <u>73:443</u> , 1913. Ibid Hill, Proc. Roy. Soc., Lond. B <u>84:404</u> , 1912. Konrich, Zschr. Hyg. Infkr. <u>73:443</u> , 1913. Ibid	195
14 19	2 hr		Krackow, Arch. Ind. Hyg. Occ. Med. <u>8:335</u> , 1953. Ibid	196
4230	2 hr		Lasarew, Arch. exp. Path. Pharm. <u>141:19</u> , 1929.	197
128,200	Cont	37 min	Fühner, Biochem Zschr. <u>115:235</u> , 1921.	198
1500	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	199
5000 13,000 50,000	810 min Cont Cont	>810 min 300 min 50 min	Yant, Pub. Health Rpt. <u>51:392</u> , 1936. Ibid Ibid	200
250	4 hr		Carpenter, J. Ind. Hyg. Tox. <u>31:343</u> , 1949.	201
44	30 min	1-5 da	Dudley, Pub. Health Rpt. <u>53:338</u> , 1938.	202

	Compound	Animal	Dose	Concentration mg/liter
203	Phosgene	Rat Cat Cat Dog	LC ₅₀ LC LC LC	0.2-0.3 0.05 0.1 0.3-0.4
204	Phosphine	Frog Mouse Rat Rat Guinea pig Guinea pig Rabbit Rabbit Rabbit Rabbit Cat Cat Cat Cat	LC LC LC LC LC LC LC LC LC LC LC LC LC LC	83.5-97.4 0.75 0.08 0.8 0.4 0.035 0.035 0.55 2.1 2.2 0.07 0.21 0.55 3.5
205	4-Picoline	Rat	LC	7.6
206	Propadiene	Rat	LC	245
207	Propionaldehyde	Rat Rat	LC ₅₀ LC	62 19
208	Propionitrile	Rat	LC ₅₀	1.12
209	2-Propoxyethanol	Rat	LC ₅₀	11.3
210	Propylbenzene	Mouse Rat	LC LC	20 116
211	Propylene oxide	Rat	LC	9.5
212	Pyridine	Rat	LC	12.9
213	Sorbalddehyde	Rat	LC	15.7
214	Styrene	Rat Rat Rat Rat Guinea pig Guinea pig Guinea pig Guinea pig	LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀ LC ₁₀₀	6.0-6.3 9.3 11.6 23.2 6.0-6.3 9.3 11.6 23.2
215	Sulfur dioxide (continued on next page)	Frog	LC	2.4-3.0

Concentration Parts per million	Exposure Time	Time of Death	Reference	
50-80 12.4 24.7 80-100	30 min 20 min 20 min 30 min	14 da 24 hr	Spiegel, A. E. C. MDDC-1715, 1948. Wirth, Arch. exp. Path. Pharm. 181:193, 1936. Ibid Meek, Am. J. Physiol. 51:303, 1920.	203
60,000-70,000 540 60 600 300 25 25 400 1500 2000 50 150 400 2500	Cont Cont Cont Cont Cont 4 hr 4 hr 30 min 10 min Cont 105 min Cont 30 min 25 min	3 hr 35 min 4 hr 1 hr 2 hr 4 hr 50 min 10 min 33 min 4-5 hr 160 min 55 min 51 min	Brilliant, Arch. exp. Path. Pharm. 15:439, 1882. Jokote, Arch. f. Hyg. 49:275, 1904. Rebmann, Zschr. Gesundh. 25:279, 1933. Ibid Ibid Müller, Arch. exp. Path. Pharm. 195:184, 1940. Ibid Jokote, Arch. f. Hyg. 49:275, 1904. Meissner, Zschr. ges. exp. Med. 42:267, 1924. Henderson, Dubois' Arch. f. Physiol. 13:109, 1879. Jokote, Arch. f. Hyg. 49:275, 1904. Ibid Ibid Brilliant, Arch. exp. Path. Pharm. 15:439, 1882.	204
2000	4 hr		Smyth, unpublished data, Mellon Inst.	205
150,000	2 hr		Riggs, Proc. Soc. Exp. Biol. Med. 22:269, 1925.	206
8000	30 min 4 hr		Skog, Acta pharm. tox. 6:299, 1950. Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	207
500	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	208
2000	4 hr		Carpenter, J. Ind. Hyg. Tox. 31:343, 1949.	209
4100 650,000	2 hr Cont	 2 hr	Lazarew, Arch. exp. Path. Pharm. 143:223, 1929. Riggs, Proc. Soc. Exp. Biol. Med. 22:269, 1925.	210
4000	4 hr		Smyth, J. Ind. Hyg. Tox. 30:63, 1948.	211
4000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. 4:119, 1951.	212
4000	4 hr		Smyth, unpublished data, Mellon Inst.	213
1300 2000 2500 5000 1300 2000 2500 5000	Cont Cont Cont Cont Cont Cont Cont Cont	40 hr 30 hr 21 hr 8 hr 40 hr 30 hr 21 hr 8 hr	Spencer, J. Ind. Hyg. Tox. 24:295, 1942. Ibid Ibid Ibid Ibid Ibid Ibid Ibid	214
820-1150	Cont	Sev hr	Flury, Abderhalden's Hdb. 4, 7th 1396.	215

	Compound	Animal	Dose	Concentration mg/liter
215	Sulfur dioxide (concluded)	Frog Mouse Mouse Rat	LC LC LC LC	2.6 1.6 2 2.6
216	Sulfuric acid mist	Guinea pig ¹ Guinea pig ³	LC ₅₀ LC ₅₀	50 ² 18 ⁴
217	1, 1, 1, 2-Tetrachloro-2,2-difluoroethane	Rat	LC	2-3% ⁵
218	1, 1, 2, 2-Tetrachloro-1,2-difluoroethane	Rat	LC	3% ⁶
219	sym. - Tetrachloroethane	Mouse Mouse	LC MLC	30 40
220	Tetrachloroethylene	Mouse	LC	40
221	Tetraethoxysilane	Rat Guinea pig	LC LC	21.3 21.5
222	Tetrahydrofuran	Mouse Mouse	LC ₅₀ LC	64.7 90.2
223	Tetranitromethane	Cat Cat	LC LC	0.08 0.8
224	Thiophene	Mouse Mouse	LC LC	20 30
225	Tin hydride	Mouse	LC	1.65
226	Toluene	Mouse Mouse	LC ₅₀ LC ₅₀	19.96±0.3 30-35
227	Tributyl phosphate	Cat Cat	LC LC	23 23
228	Trichloroacrylyl chloride	Mouse Rat Rabbit	LC ₅₀ [*] LC ₅₀ LC ₅₀	
229	1, 1, 1-Trichloroethane	Mouse Rat Rat	MLC LC ₅₀ LC ₅₀	65 97.9 82
230	1, 1, 2-Trichloroethane	Mouse	MLC	60
231	Trichloroethylene	Mouse Guinea pig ⁸ Guinea pig ⁹ Rabbit	MLC LC LC LC	42 200 200 107.6

/1/ 1½ days old. /2/ 50 mg per cubic meter. /3/ 1-2 months old. /4/ 18 mg per cubic meter.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
1000	Cont	15-20min	Flury, Abderhalden's Hdb. 4, 7b:1396.	215
600	Cont	5 hr	Ibid	
800	Cont	20 min	Ibid	
1000	Cont		Ibid	
	8 hr		Amdur, Arch. Ind. Hyg. Occ. Med. 5:311, 1952.	216
	8 hr		Ibid	
		1-2, 5 hr	Greenberg, Arch. Ind. Hyg. Occ. Med. 2:345, 1950.	217
		40-60min	Greenberg, Arch. Ind. Hyg. Occ. Med. 2:345, 1950.	218
4000	Cont	115 min	Lehmann, Arch. f. Hyg. 116:131, 1936.	219
5850	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	
5925	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	220
2500	Cont	4 da	Smyth, J. Ind. Hyg. Tox. 31:60, 1949.	221
2530	Cont	4 hr	Smyth, J. Ind. Hyg. Tox. 22:288, 1940.	
22,000	Cont	109 min	Stoughton, J. Pharm. Exp. Ther. 58:171, 1936.	222
64,700		24 hr	Henderson, J. Pharm. Exp. Ther. 57:394, 1936.	
10	20 min	10 da	Flury, "Schädliche Gase," p417, 1931.	223
100	20 min	1 hr	Ibid	
5800	Cont	80 min	Thieme, Dissert., Würzburg 1935.	224
8700	Cont	30 min*	Ibid	
329	2 hr	15 min ⁷	Paneth, Ber. deut. chem. Ges. 57:1925, 1924.	225
5300	7 hr	8 hr	Svirbely, J. Ind. Hyg. Tox. 25:366, 1943.	226
7980-9310	2 hr		Lazarew, Arch. exp. Path. Pharm. 143:123, 1929.	
6125	4 hr	5 hr	Eller, Dissert., Würzburg 1937.	227
6125	2 hr	2 da	Ibid	
165	30 min	1 da	Spiegel, A. E. C. MDDC-1715, 1948.	228
107	30 min	1 da	Ibid	
200	30 min	1-14 da	Ibid	
11,000	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	229
18,000	3 hr		Adams, Arch. Ind. Hyg. Occ. Med. 1:225, 1950.	
14,000	7 hr		Ibid	
11,000	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	230
7800	2 hr		Lazarew, Arch. exp. Path. Pharm. 141:19, 1929.	231
37,200	Cont	9-12 min	Landé, Arch. mal. profess. 2:454, 1939.	
37,200	Cont	40 min	Ibid	
20,000	Cont	2 hr	McCord, J. Am. Med. Assoc. 99:409, 1932.	

/5/ 2-3% by volume in air. /6/ 3% by volume in air. /7/ Later. /8/ Young. /9/ Mature.

	Compound	Animal	Dose	Concentration mg/liter
232	Trichlorofluoromethane	Rat	LC	10% ¹
233	1, 2, 3-Trichloropropane	Mouse	LC ₅₀	30
234	Trichlorosilane	Rat	LC ₅₀	6.7
235	Triethoxymethane	Rat	LC ₅₀	24.2
236	Triethylamine	Rat	LC	8.3
237	Vinyl acetate	Rat	LC ₅₀	14
238	Vinyl butyrate	Rat	LC ₅₀	18.6
239	Vinyl chloride	Mouse Guinea pig	MLC LC	625-750 1024
240	Vinyl ether	Mouse Rat	LC ₅₀ LC ₅₀	146.8 386.5
241	m-Xylene	Mouse	LC	50
242	o-Xylene	Mouse	LC	30
243	p-Xylene	Mouse	LC	15-35

/1/ 10% by volume in air.

Concentration Parts per million	Exposure Time	Time of Death	Reference	
		20-30min	Lester, Arch. Ind. Hyg. Occ. Med. <u>2</u> :335, 1950.	232
5000	20 min	48 hr	McOmie, Fed. Proc. <u>8</u> :319, 1949.	233
1000	4 hr	14 da	Smyth, J. Ind. Hyg. Tox. <u>31</u> :60, 1949.	234
4000	8 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951.	235
2000	4 hr		Smyth, unpublished data, Mellon Inst.	236
4000	4 hr		Smyth, J. Ind. Hyg. Tox. <u>30</u> :63, 1948.	237
4000	4 hr		Smyth, Arch. Ind. Hyg. Occ. Med. <u>4</u> :119, 1951.	238
233,000-280,000 400,000	Cont Cont	10 min 10-20min	Peoples, J. Pharm. Exp. Ther. <u>48</u> :284, 1933. Yant, Pub. Health Rpt. <u>45</u> :1963, 1930.	239
51,233 134,888	3 hr	24 hr <3 hr	Molitor, J. Pharm. Exp. Ther. <u>57</u> :274, 1936. Ibid	240
11,540	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143</u> :223, 1929.	241
6920	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143</u> :223, 1929.	242
3460-8075	2 hr		Lazarew, Arch. exp. Path. Pharm. <u>143</u> :223, 1929.	243

BIBLIOGRAPHY
ABBREVIATIONS

ABBREVIATION		FULL TITLE	
- A -			
1	Abderhalden's Hdb.	Abderhalden, Handbuch der biologischen Arbeitsmethoden	1
2	Acta pharm. tox.	Acta pharmacologica et toxicologica	2
3	Acta physiol. Scand.	Acta physiologica Scandinavica	3
4	Advances Chem.	Advances in Chemistry	4
5	A E. C. MDDC-1715	Atomic Energy Commission (Report) MDDC-1715	5
6	Am. Chem. J.	American Chemical Journal	6
7	Am. J. Clin. Path.	American (The) Journal of Clinical Pathology	7
8	Am. J. Dig. Dis.	American Journal of Digestive Diseases and Nutrition	8
9	Am. J. Hyg.	American (The) Journal of Hygiene	9
10	Am. J. Med. Sc.	American (The) Journal of the Medical Sciences	10
11	Am. J. Pharm.	American Journal of Pharmacy	11
12	Am. J. Physiol.	American (The) Journal of Physiology	12
13	Am. J. Syph. Neurol.	American Journal of Syphilis and Neurology	13
14	Am. J. Trop. Med.	American (The) Journal of Tropical Medicine	14
15	Am. Rev. Tuberc.	American (The) Review of Tuberculosis	15
16	Anesth. & Analg.	Anesthésie et analgésie	16
17	Anesthesiology	Anesthesiology	17
18	Ann. anat. path.	Annales d'anatomie pathologique medico-chirurgicale	18
19	Ann. Int. M.	Annals of Internal Medicine	19
20	Ann. N. Y. Acad. Sci.	Annals of the New York Academy of Sciences	20
21	Ann. physiol., Par.	Annales de physiologie et de physicochimie biologique, Paris	21
22	Ann. Trop. Med. Parasitol.	Annals of Tropical Medicine and Parasitology	22
23	Antibiotics	Antibiotics	23
24	Arb. pharm. Inst., Dorpat.	Arbeiten aus dem pharmakologischen Institut, Dorpat	24
25	Arch. Anat. Physiol.	Archiv für Anatomie und Physiologie	25
26	Arch. Derm. Syph.	Archives of Dermatology and Syphilology	26
27	Arch. exp. Path. Pharm.	Archiv für experimentelle Pathologie und Pharmakologie	27
28	Arch. f. Derm. Syph.	Archiv für Dermatologie und Syphilis	28
29	Arch. f. Hyg.	Archiv für Hygiene	29
30	Arch. farm. sper.	Archivio di farmacologia sperimentale e scienze affini	30
31	Arch. farm. terap.	Archivio di farmacologia e terapeutica	31
32	Arch. ges. Physiol.	Archiv (Pflüger's) für die gesamte Physiologie des Menschen und der Tiere	32
33	Arch. Gewerbepath.	Archiv für Gewerbepathologie und Gewerbehygiene	33
34	Arch. Hyg.	Archiv für Hygiene und Bacteriologie, München	34
35	Arch. Int. Med.	Archives of Internal Medicine	35

ABBREVIATIONS		FULL TITLE	
36	Arch. Ind. Hyg. Occ. Med.	Archives of Industrial Hygiene and Occupational Medicine	36
37	Arch. int. pharmacod.	Archives internationales de pharmacodynamie et de thérapie	37
38	Arch. ital. biol.	Archives italiennes de biologie	38
39	Arch. ital. sc. farm.	Archivio italiano di scienze farmaceutiche	39
40	Arch. ital. urol.	Archivio italiano di urologia	40
41	Arch. mal. profess.	Archives des maladies professionnelles; hygiène et toxicologie industrielles	41
42	Arch. méd. exp., Par.	Archives de médecine expérimentale et d'anatomie pathologique. Paris	42
43	Arch. Path.	Archives of Pathology	43
44	Arch. path. Anat.	Archiv für pathologische Anatomie und Physiologie, und für klinische Medizin	44
45	Arch. sc. biol., Bologna	Archivio di scienze biologiche, Bologna	45
46	Arch. sc. biol., St. Petersburg	Archives des sciences biologiques. St. Petersburg	46
47	Arch. Schiffs Tropenhyg.	Archiv für Schiffs- und Tropenhygiene, Pathologie und Therapie exotischer Krankheiten	47
48	Arch. soc. biol., Montevideo	Archivos de la Sociedad de biología de Montevideo	48
49	Arch. Surg.	Archives of Surgery	49
50	Arztl. Forsch.	Ärztliche Forschung	50
51	Arzneimittelforsch.	Arzneimittelforschung	51
52	Austral. J. Exp. Biol.	Australian Journal of Experimental Biology and Medical Science	52
- B -			
53	Barke, Dissert.	Barke, Dissertation	53
54	Ber. deut. chem. Ges.	Berichte deutsche chemische Gesellschaft	54
55	Ber. Phys. Med. Ges.	Berichte der Physikalisch-medizinischen Gesellschaft zu Würzburg	55
56	Berl. klin. Wochr.	Berliner klinische Wochenschrift	56
57	Bierwag, Dissert.	Bierwag, Dissertation	57
58	Biochem. J.	Biochemical Journal	58
59	Biochem. Zachr.	Biochemische Zeitschrift	59
60	Boll. soc. ital. biol. sper.	Bollettino della Società di biologia sperimentale	60
61	Bong, Dissert.	Bong, Dissertation	61
62	Boruttau, Dissert.	Boruttau, Dissertation	62
63	Bovet & Bovet-Nitti	Bovet, D. and Bovet-Nitti, F., "Médicaments du Système Nerveux Végétatif," S. Karger: New York, 1948	63
64	Boyce Thompson Inst.	Boyce Thompson Institute	64
65	Brit. J. Anaesth.	British Journal of Anaesthesia	65
66	Brit. J. Exp. Path.	British (The) Journal of Experimental Pathology	66
67	Brit. J. Indust. M.	British Journal of Industrial Medicine	67
68	Brit. J. Pharm.	British Journal of Pharmacology and Chemotherapy	68
69	Brit. J. Radiol.	British Journal of Radiology	69
70	Brit. Med. J.	British (The) Medical Journal	70

ABBREVIATIONS		FULL TITLE	
71	Bull. Acad. méd., Par.	Bulletin de l'Académie de médecine, Paris	71
72	Bull. Acad. Suisse sci. méd.	Bulletin der Schweizerischen Akademie der Medizinischen Wissenschaften (Tri-lingual)	72
73	Bull. Johns Hopkins Hosp.	Bulletin of the Johns Hopkins Hospital	73
74	Bull. sc. pharm.	Bulletin des sciences pharmacologiques, Paris	74
75	Bull. Soc. chim. biol.	Bulletin de la Société de chimie biologique, Paris	75
- C -			
76	C. rend. Acad. sc.	Comptes rendus hebdomadaires des séances de l'Académie des sciences, Paris	76
77	C. rend. Soc. biol.	Comptes rendus des séances de la Société de biologie	77
78	Canad. Pub. Health J.	Canadian Public Health Journal	78
79	Cancer	Cancer	79
80	Cazeneuve & Lépine	Cazeneuve and Lépine (unpublished (?) data)	80
81	Chem. Absts.	Chemical Abstracts	81
82	Chem. Biol. Coord. Ctr. Rev.	Chemical-Biological Coordination Center Review (National Research Council)	82
83	Chem. Corps Med. Lab. Rpt.	Chemical Corps Medical Laboratory Report (U. S. Army)	83
84	Chem. Indust.	Chemical Industries	84
85	Chem. Zbl.	Chemisches Zentralblatt	85
86	Chicago Med. School Q.	Chicago Medical School Quarterly	86
87	Clin. med. ital.	Clinica (La) medica italiana	87
88	Current Res. Anes.	Current Researches in Anesthesia and Analgesia	88
- D -			
89	Deut. med. Wschr.	Deutsche medizinische Wochenschrift	89
90	Deut. Zschr. ger. Med.	Deutsche Zeitschrift für die gesamte gerichtliche Medizin	90
91	Distler, Dissert.	Distler, Dissertation	91
92	Div. Pharm. F. & D. Adm. Q. Rpt.	Division of Pharmacology, Food and Drug Administration Quarterly Report	92
93	Dubois' Arch. f. Physiol.	Dubois' Archiv für Anatomie und Physiologie	93
94	Dubois' Arch. f. Physiol. Suppl.	Dubois' Archiv für Anatomie und Physiologie Supplement	94
- E, F, G -			
95	Eller, Dissert.	Eller, Dissertation	95
96	Endocrinology	Endocrinology	96
97	Exp. Med. Surg.	Experimental Medicine and Surgery	97
98	Falkenburg, Dissert.	Falkenburg, Dissertation	98
99	Fed. Proc.	Federation Proceedings (Federation of American Societies for Experimental Biology)	99
100	Fliegenbaum, Dissert.	Fliegenbaum, Dissertation	100

ABBREVIATIONS		FULL TITLE	
101	Flury, "Schädliche Gase"	Flury, F., "Schädliche Gase," Springer: Berlin, 1931	101
102	Food Technology	Food Technology	102
103	Gréhan, "L'Oxyde de Carbone"	Gréhan, N., "Hygiène Expérimentale: L'Oxyde de Carbone," Gauthier-Villars: Paris, 1903	103
- H -			
104	Hadra, Dissert.	Hadra, Dissertation	104
105	Health Haz. Mil. Chem.	Health Hazards of Military Chemicals	105
106	Heffter's Hdb.	Heffter's Handbuch der experimentelle Pharmakologie	106
107	Heyroth and Diechmann	Heyroth, F.F. and Deichmann, W. B. (Unpublished data)	107
108	Hofbauer, Dissert.	Hofbauer, Dissertation	108
109	Hyg. Lab. Bull.	Hygienic Laboratory Bulletin	109
- I -			
110	Ind. J. M. Res.	Indian (The) Journal of Medical Research	110
111	Indust. Med.	Industrial Medicine	111
112	Ind. Med. Hyg.	Industrial Medicine, Industrial Hygiene Section	112
113	Indust. Engin. Chem.	Industrial and Engineering Chemistry	113
114	Int. J. Leprosy	International Journal of Leprosy	114
- J -			
115	J. Am. Chem. Soc.	Journal of the American Chemical Society	115
116	J. Am. Med. Assoc.	Journal (The) of the American Medical Association	116
117	J. Am. Pharm. Assoc.	Journal of the American Pharmaceutical Association	117
118	J. Am. Vet. M. Assoc.	Journal of the American Veterinary Medical Association	118
119	J. Am. Water Works Assoc.	Journal; American Water Works Association	119
120	J. Biol. Chem.	Journal (The) of Biological Chemistry	120
121	J. Clin. Invest.	Journal (The) of Clinical Investigation	121
122	J. Comp. Path.	Journal (The) of Comparative Pathology and Therapeutics	122
123	J. Dent. Res.	Journal (The) of Dental Research	123
124	J. Econ. Entomol.	Journal (The) of Economic Entomology	124
125	J. Exp. Med.	Journal (The) of Experimental Medicine	125
126	J. Fish. Res. Board Can.	Journal of the Fisheries Research Board of Canada	126
127	J. Hygiene	Journal (The) of Hygiene	127
128	J. Ind. Hyg.	Journal (The) of Industrial Hygiene	128
129	J. Ind. Hyg. Tox.	Journal (The) of Hygiene and Toxicology	129
130	J. Lab. Clin. Med.	Journal (The) of Laboratory and Clinical Medicine	130
131	J. Path. Bact.	Journal (The) of Pathology and Bacteriology, London	131
132	J. pharm. chim.	Journal de pharmacie et de chimie, Paris	132

ABBREVIATIONS		FULL TITLE	
133	J. Pharm. Exp. Ther.	Journal (The) of Pharmacology and Experimental Therapeutics	133
134	J. physiol., Par.	Journal de physiologie, Paris	134
135	J. Physiol.	Journal of Physiology, London	135
136	J. physiol. path. gén.	Journal de physiologie et de pathologie générale	136
137	J. Urol.	Journal (The) of Urology	137
138	Jap. J. M. Sc., IV Pharm.	Japanese Journal of Medical Sciences, IV Pharmacology	138
139	- K, L -		
139	Kazansky Med. Zhur.	Kazansky Meditsinsky Zhurnal	139
140	Kemp, Dissert.	Kemp, Dissertation	140
141	Klimmer, Dissert.	Klimmer, Dissertation	141
142	Klin. Wschr.	Klinische Wochenschrift	142
143	Kuhls, Dissert.	Kuhls, Dissertation	143
144	Lagier, Thèse	Lagier, Dissertation	144
145	Lancet	Lancet	145
146	Langer, Dissert.	Langer, Dissertation	146
147	Laubenheimer, "Phenol u. s. Derivate"	Laubenheimer, K., "Phenol und seine Derivate als Desinfektionsmittel," Urban und Schwarzenberg: Berlin, 1909	147
148	Leber, Dissert.	Leber, Dissertation	148
149	Lehman, pers. comm.	Lehman, Arnold J. (personal communication)	149
150	Lehmann and Flury, "Industrial Solvents"	Lehmann, K. B., and Flury, F., "Toxicology and Hygiene of Industrial Solvents," Williams and Wilkins: Baltimore, 1943	150
151	Lehrb. Arb. u. Gewerb. Hyg.	"Kurzes Lehrbuch der Arbeits- und Gewerbehygiene," S. Hirzel: Leipzig, 1919	151
152	Luig, Dissert.	Luig, Dissertation	152
	- M, N, O -		
153	Med. Klin., Berl.	Medizinische Klinik, Berlin	153
154	Med. Res. Council, Sp. Rpt.		154
155	Med. u. Chem., Berl.	Medizin und Chemie, Berlin	155
156	Mellon Inst., unpublished data	Mellon Institute, Philadelphia	156
157	Merck Report	Merck & Co., Inc., Rahway, N. J.	157
158	Munch. med. Wschr.	Münchener medizinische Wochenschrift	158
159	N. I. H. Bull.	National Institute of Health Bulletin	159
160	N. M. R. Proj.	Naval Medical Research Institute Project	160
161	North Am. Aviation Rpt.	North American Aviation Report (North American Aviation Co.)	161
162	Nucl. Sci. Abstr.	Nuclear Science Abstracts	162
163	Ottnat, Dissert.	Ottnat, Dissertation	163
	- P -		
164	Pers. comm., Food and Drug Adm.	Personal communication, Food and Drug Administration	164
165	Pers. comm., Scandoz Chem. Works	Personal communication, Scandoz Chemical Works	165

ABBREVIATION		FULL TITLE	
166	Philos. Tr. Roy. Soc. Lond.	Philosophical Transactions of the Royal Society of London	166
167	Physiol. Rev.	Physiological Review	167
168	Prensa Méd. Arg.	Prensa (La) Médica Argentina	168
169	Presse Méd.	Presse (La) Médicale	169
170	Proc. 9th Int. Congr. Acc. Med.	Proceedings of the 9th International Congress for Accidental and Occupational Medicine, London, 1948	170
171	Proc. Pharm. Soc. Fall Meet.	Proceedings, American (The) Society for Pharmacology and Experimental Therapeutics, Fall Meeting	171
172	Proc. Roy. Soc. London.	Proceedings of the Royal Society of London	172
173	Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine	173
174	Pub. Health Bull.	Public Health Bulletin	174
175	Pub. Health Rpt.	Public Health Report	175
- Q -			
176	Q. Bull. Assoc. F. & D. Off.	Quarterly Bulletin of the Association of Food and Drug Officials of the United States	176
177	Q. Bull. Sea View Hosp.	Quarterly Bulletin of the Sea View Hospital	177
178	Q. J. Exp. Physiol.	Quarterly Journal of Experimental Physiology	178
179	Q. J. Pharm. Pharmacol.	Quarterly Journal of Pharmacy and Pharmacology, London	179
- R. S. -			
180	Rec. Trav. Chim. Pays-Bas	Recueil des travaux chimiques des Pays-Bas	180
181	Reuss, Dissert.	Reuss, Dissertation	181
182	Rev. Assoc. méd. argent.	Revista de la Asociación médica argentina	182
183	Rev. de méd.	Revue de médecine, Paris	183
184	Rev. méd. Suisse rom.	Revue médicale de la Suisse romande	184
185	Report from Squibb & Son	Report from Squibb and Son (E. R. Squibb and Son)	185
186	Rpt. Army Chem. Ctr.	Report of (the) Army Chemical Center (U. S. Army)	186
187	Rpt. Chemother. Leukemia, So. Res. Inst.	Report on the Chemotherapy of Leukemia, Southern Research Institute Birmingham	187
188	Schulz, Dissert.	Schulz, Dissertation	188
189	Schwartz, Dissert.	Schwartz, Dissertation	189
190	Schweiz. med. Wochr.	Schweizerische medizinische Wochenschrift	190
191	Science	Science	191
192	Skand. Arch. Physiol.	Skandinavisk Archiv för Fysiologi	192
193	Sollman & Hanslik, "Experimental Pharmacology"	Sollman, T. H., and Hanslik, P. J., "Fundamentals of Experimental Pharmacology," 2nd ed., Stacey: San Francisco, 1940.	193
194	Starrek, Dissert.	Starrek, Dissertation	194

ABBREVIATION		FULL TITLE	
195	Su.nm. Rpt. Med. Div. Army Chem. Ctr. Md.	Summary Report, Medical Division, Army Chemical Center (U. S. Army)	195
196	Surg. Gyn. Obst.	Surgery, Gynecology and Obstetrics	196
197	Tab. Biol.	Tabulae Biologicae	197
198	Therap. Monatsh.	Therapeutische Monatshefte	198
199	Therap. Umschau	Therapeutische Umschau und medizinische Bibliographie	199
200	Thérapie	Thérapie, Paris	200
201	Thieme, Dissert.	Thieme, Dissertation	201
202	Tierchem.	Jahresbericht über die Fortschritte der Tier-chemie, oder der physiologischen und pathologischen Chemie	202
203	Tohoku J. E. M.	Tohoku Journal of Experimental Medicine	203
204	Toxikologie	Toxikologie	204
205	Tr. R. Soc., Edinburgh	Transactions of the Royal Society of Edinburgh	205
- U, V, W -			
206	Underwriters' Lab. Rpt.	Underwriters' Laboratory Report	206
207	U. of Chicago Toxic. Lab. Rpt.	University of Chicago Toxicity Laboratory Report	207
208	U. S. Bur. Plant Ind. Bull.	U. S. Bureau of Plant Industry, Soils and Agricultural Engineering Bulletin	208
209	U. S. Dept. Agr. Bull.	U. S. Department of Agriculture Bulletin	209
210	Univ. Cal. Publ. Pharmacol.	University of California Publications in Pharmacology	210
211	Voegtlin and Hodge	Voegtlin and Hodge, "Pharmacology and Toxicology of Uranium Compounds," McGraw Hill: New York, 1949	211
212	Von Engelhardt, Dissert.	Von Engelhardt, Dissertation	212
213	Wien. med. Wochr.	Wiener medizinische Wochenschrift	213
214	Winthrop Chem. Corp.	Winthrop Chemical Corporation	214
- Z -			
215	Zbl. Chir.	Zentralblatt für Chirurgie	215
216	Zbl. Gewerbehyg.	Zentralblatt für Gewerbehygiene und Unfallverhütung	216
217	Zbl. med. Wiss.	Zentralblatt für des medizinische Wissenschaften	217
218	Zschr. Biol.	Zeitschrift für Biologie	218
219	Zschr. exp. Path. Ther.	Zeitschrift für experimentelle Pathologie und Therapie	219
220	Zschr. f. Path., Frankfurt	Zeitschrift für Pathologie, Frankfurt	220
221	Zschr. Hyg. Infkr.	Zeitschrift für Hygiene und Infektionskrankheiten	221
222	Zschr. klin. Med.	Zeitschrift für klinische Medizin	222
223	Zschr. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin	223
224	Zschr. Gesundheitstechn.	Zeitschrift für Gesundheitstechnik und Städtehygiene	224
225	Zschr. Immunitätsforsch.	Zeitschrift für Immunitätsforschung und experimentelle Therapie	225

ABBREVIATION		FULL TITLE	
226	Zachr. physiol. Chem.	Zeitschrift für physiologische Chemie (Hoppe-Seyler's)	226
227	14th Congr. Ind. Chem.	14th Congress on Industrial Chemistry	227
228	116th Meet. Am. Chem. Soc.	116th Meeting of the American Chemical Society	228

INDEX

Index

Compounds or substances appearing in this volume are listed here in alphabetical order. In addition, commonly used alternate names or designations and synonyms, as well as some proprietary and, where available, official names, have been included so that this listing may also serve as a cross index. Time and space disallow complete utilization of the nomenclature system recommended by "Chemical Abstracts." Therefore, it is entirely possible that a few compounds may appear in the tables in more than one place under different names. It has been impossible for the editor to catch all of these minor discrepancies.

It will be noticed that names which begin with prefixes, such as L- or Bis-, are alphabetized under D or B respectively. Greek letters, p-, o-, m-, and designation numbers have been disregarded in primary alphabetization but have been considered secondarily, e.g., β -Acetylcholine appears in the A group but follows α -Acetylcholine.

A name appearing by itself (i.e., not followed by another in parentheses) in the index appears as such in the table. A name followed by another name in parentheses in the index appears in the table as the parenthetical name. All substances listed in the table have item numbers so that each name in the index is followed by an underlined number - the item number - separated by a colon from a second number - the page number. When two sets of numbers appear, separated by a semi-colon, the first set refers to the substance as a solid or liquid in Table I, and the second set refers to the substance as a gas in Table II. As examples: ACETIC ACID, (ACETIC ANHYDRIDE) 21:8; 3:322. Acetic oxide is listed as acetic anhydride, item 21 on page 8 (Table I) and item 3 on page 322 (Table II). ACETANILIDE 16:6. Ace-anilide is found as item 16 on page 6.

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