NUCLEAR MAGNETIC RESONANCE AND ELECTRON SPIN RESONANCE SPECTRA

Index for 1958 - 1963

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To my parents in grateful appreciation for so much

PREFACE

In recent years, the techniques of nuclear magnetic resonance (NMR) and electron spin resonance (ESR) spectroscopy have joined infrared, ultraviolet and visible absorption, and mass spetroscopy as the leading tools for the elucidation of the structure of complex molecules, both organic and inorganic. Coincident with the publication of increasing numbers of NMR and ESR spectra in the literature, has been the growing need for assistance in the location of such published spectra. This volume represents an attempt to provide such aid in the form of an index similar to those previously prepared for ultraviolet and visible, and infrared absorption spectra.

Included in this volume are more than 8000 references to NMR and ESR spectra published in sixty-seven leading worldwide journals and in two collections of spectra during 1958–1963. As previously, each reference in this index indicates the journal, volume, and page where an actual spectrum of the compound mentioned may be found.

Once again thanks are due to many people for their support of this project. In particular, I am indebted to the Humble Oil Refining Company and to Varian Associates, Inc. for their cooperation in providing copies of spectral collections for inclusion in this index.

HERBERT M. HERSHENSON

Woodbridge, Connecticut
June, 1965

INTRODUCTION

The principal aim of this index is to provide a means for the location of published NMR and ESR spectra, and the listing has been kept as simple as possible for this purpose. Each reference consists of an abbreviated symbol for the journal, the volume number, and the page. For example, JA 85, 2013 indicates that the NMR spectrum of the compound can be found on page 2013 of Volume 85 of the *Journal of the American Chemical Society*. An entry marked by an asterisk, e.g., JA 85, 2013*, signifies the location of an ESR spectrum of the compound.

The index is arranged alphabetically according to the compounds whose spectra are given. The indexing arrangement is roughly similar to that used in *Chemical Abstracts*, although it has not been practical to conform to *Chemical Abstracts* nomenclature throughout. Thus, acetylacetone will be found under the listing "acetone, acetyl"—rather than under "2,4-pentanedione." Wherever possible, all references for a particular compound have been listed under a single name, but there will be some instances where listings for the identical compound may be found under several different names. Entries are made on the basis of the parent substance, e.g., "acetone, acetyl-" rather than "acetylacetone," and "acetic acid, trichloro-, methyl ester" rather than "methyl trichloroacetate." Here also the rules used by *Chemical Abstracts* have been followed when practical, but some inconsistencies will be found. It is hoped that the reader will seek entries under the several possible headings for those compounds which might be susceptible to such listings.

In the case of inorganic compounds, solution spectra are normally indexed according to the ion which contributes the significant absorption. Thus, the spectrum of a solution of ferric sulfate would be found listed under "iron," while a study of complex formation between ferric ion and chloride would be listed under "iron + chloride" and also "chloride + iron." The spectrum of an inorganic compound in the solid state is listed under its full name, e.g., "cadmium fluoride." The spectra of doped crystals or of impurities in a solid matrix are indexed by the name of the matrix followed by the impurity, e.g., "zinc oxide–manganese." The spectra of organic ions and free radicals will, with a few exceptions, be listed under the name of the parent compound. The spectra of polymeric materials will be found listed in proper alphabetical order according to the parent compound, but preceded by the prefix "poly," e.g., "poly (acetylene, vinyl-)."

The following tables give a complete list of the volumes and corresponding years of the journals covered and also a list of the abbreviations used.

JOURNALS INDEXED

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Acta Chimica (AT)

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27	1961
28	1961
29	1961
30	1962
31	1962
32	1962
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35	1963
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Analytical Chemistry (AC)

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Annalen der Chemie, Justus Liebigs (N)

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614	1958
615	1958
616	1958
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618	1958
619	1958
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631	1960

Annalen der Chemie, Justus Liebigs (N) (continued)

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Annales de Chimie (Paris) (NN)

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Annali di Chimica (AN)

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* Except numbers 6 and 10–12.

Applied Spectroscopy (AS)

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Archives of Biochemistry and Biophysics (AB)

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Australian Journal of Chemistry (AU)

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Australian Journal of Chemistry (AU) (continued)

Volume	Year
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36	1963

Bulletin on Narcotics (UN)
(United Nations, Department of Social Affairs)

Volume	Year
10	1958
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Bulletin de la societe chimique de France (F)

Series	Volume	Year
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Chemical Reviews (CR)

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Number 34 (1963) "High Resolution NMR"

Gazzetta Chimica Italiana (IT)

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Research and Development Division
Baytown, Texas

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85	1963

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(English translation—Consultants Bureau, New York)

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Journal of Applied Chemistry (London) (AP)

Volume	Year
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Journal of Biological Chemistry (B)

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Journal de Chimie Physique (CP)

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Volume	Year
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* New system

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287	4	15	1962
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NMR Spectra Catalog (V)
Varian Associates, Inc.
Palo Alto, California, 1962

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Volume	Year
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Optics and Spectroscopy (O)

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Zeitschrift für physikalische Chemie Neue Folge (Frankfurt edition) (Z) (continued)

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ABBREVIATIONS USED FOR JOURNALS

A *Analyst, The*
AA *Analytica Chimica Acta*
AB *Archives of Biochemistry and Biophysics*
AC *Analytical Chemistry*
AK *Arkiv för Kemi*
AN *Annali di Chimica*
AP *Journal of Applied Chemistry (London)*
AS *Applied Spectroscopy*
AT *Acta Chimica*
AU *Australian Journal of Chemistry*
B *Journal of Biological Chemistry*
BE *Chemische Berichte*
BJ *Biochemical Journal (London)*
C *Journal of the Chemical Society (London)*
CA *Chimie Analytique*
CC *Collection of Czechoslovak Chemical Communications*
CH *Chimia*
CN *Canadian Journal of Chemistry*
CO *Journal of Colloid Science*
CP *Journal de Chimie Physique*
CR *Chemical Reviews*
E *Journal of the Electrochemical Society*
F *Bulletin de la societe chimique de France*
FD *Discussions of the Faraday Society*
FS *Transactions of the Faraday Society*
G *Angewandte Chemie*
GL *Physics and Chemistry of Glasses*
H *Helvetica Chimica Acta*
HB *Humble Catalog of NMR Spectra, Humble Oil and Refining Company, Research and Development Division, Baytown, Texas*
I *Journal of the Indian Chemical Society*
IC *Inorganic Chemistry*
IN *Journal of Inorganic and Nuclear Chemistry*
IS *Proceedings of the Indian Academy of Sciences*
IT *Gazzetta Chimica Italiana*
J *Bulletin of the Chemical Society of Japan*
JA *Journal of the American Chemical Society*
LM *Journal of the Less-Common Metals*
M *Journal of Molecular Spectroscopy*
MO *Monatshefte für Chemie*

N *Annalen der Chemie, Justus Liebigs*
NB *Journal of Research of the National Bureau of Standards*
NN *Annales de Chimie (Paris)*
NT *Nature*
O *Optics and Spectroscopy*
OP *Optica Acta*
OR *Journal of Organic Chemistry*
OS *Journal of the Optical Society of America*
P *Journal of Chemical Physics*
PC *Journal of Physical Chemistry*
PK *Journal für Praktische Chemie*
PS *Journal of Polymer Science*
PY *Journal of Applied Physics*
R *Recueil des Travaux Chimiques des Pays-Bas*
RL *Proceedings of the Royal Society of London*
S *Science*
SA *Spectrochimica Acta*
SC *Acta Chemica Scandinavica*
SD *Physics and Chemistry of Solids*
SP *Anales de la Real Sociedad Espanola de Fisica y Quimica*
SR *Journal of Quantitative Spectroscopy and Radiative Transfer*
T *Talanta*
TT *Tetrahedron*
UN *Bulletin on Narcotics (United Nations, Department of Social Affairs)*
V *NMR Spectra Catalog, Vol. I, Varian Associates, Inc., Palo Alto, California*
Z *Zeitschrift für physikalische Chemie, Neue Folge (Frankfurt Edition)*
ZA *Zeitschrift für analytische Chemie*
ZC *Zeitschrift für anorganische und allgemeine Chemie*
ZK *Journal of Analytical Chemistry of the USSR (English Translation—Consultants Bureau, New York)*
ZP *Zeitschrift für physikalische Chemie (Leipzig edition)*

A

1(10→5)-Abeo-5α-androst-1-ene,
3-keto-10β-hydroxy-17β-acetoxy-, H 45, 2404

Acanthine,
O-methyloxy-, C(1961), 1899

Acenaphthaquinone, P 28, 774
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638
(+ cytosine), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*

Acenaphthene, HB 107; JA 85, 2706
1-bromo-, JA 85, 2705
5,6-dichloro-, JA 85, 2705

Acenaphthene-2-d,
1-bromo-, JA 85, 2246

Acenaphthenesemiquinone, P 39, 1797*

Acenaphthylene, JA 80, 4555*; JA 83, 1840; JA 85, 2707

Acepleiadylene, JA 80, 3501

Acetal, J 32, 655

Acetaldazine, HB 690

Acetaldehyde, CA 44, 514; CA 45, 4; CH 14, 149; CN 37, 1120; CR 63, 95; J 36, 575; J 36, 1107; JA 83, 4096; P 37, 99; V 6; Z 27, 137
(+ deuterium oxide), P 32, 636
irradiated, CP 58, 787*
2,4-dinitrophenylhydrazone, JA 85, 2785
diaceto-, AK 19, 573
diethyl-, acetal, V 143
diethyl-α-methylallyl-, N 649, 38

Acetamine, CN 41, 150; HB 272
irradiated, JA 83, 1038*
N,N-diethyl-, HB 278
difluoro-, P 37, 1363*
N,N-dimethyl-, AK 16, 374; CH 13, 22; CN 41, 151; PC 66, 541
(+ decaborane), C(1961), 2199
N,N-dimethyltrifluoro-, PC 66, 541
irradiated, PC 66, 542
N-methyl-, JA 81, 63
(+ paraformaldehyde), OR 28, 2593
N-methyl-*N*-acetoxymethyl-, BE 94, 2464
N-methyl-*N*-butyl-, JA 85, 3730
N-methylcyclohexyl-, OR 28, 1297
2-pyridyl-, V 159
trifluoro-, irradiated, P 37, 1359*

Acetamide-*N*-d_2, irradiated, JA 83, 1038*

Acetamidine, *N,N'*-dimethyl-, PC 67, 1662

Acetamidinium chloride, PC 67, 1656

Acetic acid, CH 14, 150; FS 54, 317; FS 57, 374; HB 115; V 8
(+ chromium trioxide), IN 25, 941*
(+ sterculic acid), JA 83, 228
irradiated, JA 83, 1037*, P 30, 697*
benzyl ester, HB 581
butyl ester, V 140
t-butyl ester, V 141
ethyl ester, F[5]28, 1680; V 79
irradiated, P 30, 697*
methyl ester, CA 44, 514; CH 14, 149
irradiated, JA 85, 385*
2-methylbenzyl ester, HB 582
4-methylbenzyl ester, HB 583
methyl-1-naphthyl ester, HB 587
phenyl ester, CA 44, 514
phenylethyl ester, V 261
thallium salt
(+ 6-tetralol + boron trifluoride), N 662, 57*
vinyl ester, P 34, 306; V 65
(+ silane, methyldichloro-), ZA 164, 130
2-acetyl-2-formyl-, ethyl ester, AK 19, 573
(1-amino-1,1-diphenylacetamino)diphenyl-, methyl ester, N 666, 118
benzoyl-, ethyl ester 2,4-dinitrophenylhydrazone, OR 25, 1355
chloro-, P 34, 1731
irradiated, SA 18, 293*
butyl ester, V 138
ethyl ester, V 73
cyano-, methyl ester, V 57
cyclohexylidene-, BE 96, 3114
cyclohexylidenephenyl-, BE 96, 3114
dehydro-, AK 17, 525
methyl ether, AK 525
dichloro-, FS 57, 385
irradiated, FS 57, 385
ethyl ester, V 59
hydroxy, HB 475
1-imidazolyl-, BJ 86, 278
isocyanato-, ethyl ester, V 107
methoxy-, potassium salt trihydrate, irradiated, FS 58, 471*
2-methoxy-4-propylphenoxy-, AU 16, 653
(1-oxyl-2,6-di-*t*-butyl-4-phenyl-, thiol ester, N 645, 84*
phenyl-, HB 477
3-thienylsulfonyl-, AK 13, 274
thiobenzoyl-, ethyl ester, JA 80, 6368

cis -2-*o*-tolyl-1-hydroxycyclohexyl-, ethyl ester, OR 28, 3532
trans -2-*o* -tolyl-1-hydroxycyclohexyl-, ethyl ester, OR 28, 3532
tribromo-, FS 57, 383
irradiated, FS 57, 383
trichloro-, FS 57, 383; SD 7, 166
(+ cyclopentadiene), C (1961), 1942
irradiated, FS 57, 383
cyclopentyl ester, C (1961), 1942
trifluoro-, FS 57, 384
(+ potassium dichromate), IN 25, 940*
irradiated, FS 57, 384
trimethyl-, SD 24, 331
vinyl-, F[5] 30, 381
xanthopteryl-, ethyl ester, H 46, 2601

Acetic acid-d_1, FS 57, 374
irradiated, JA 83, 1037*
trifluoro-, FS 57, 385
irradiated, FS 57, 385

Acetic acid-d_3, FS 57, 374

Acetic acid vinyl ester-ethylene copolymer, AC 35, 1949

Acetic anhydride, H 44, 878

Acetoacetanilide, V 256

Acetoacetic acid
ethyl ester, CA 44, 519; F[5] 27, 1880; SA 19, 1696
cinnamoyl-, ethyl ester, SC 14, 1336

Acetoacetyl fluoride, OR 26, 226

1-Acetonaphthone, 4-methoxy-, SA 19, 696

2-Acetonaphthone, 6-methoxy-, SA 19, 696

1-Acetonaphthonimine, *N*-methyl-2-hydroxy-, JA 85, 696

2-Acetonaphthonimine,
N-benzyl-1-hydroxy-, JA 85, 695
N-methyl-1-hydroxy-, JA 85, 695

Acetone, AK 21, 504; CA 44, 514; HB 334; P 31, 1683; SA 19, 1695
(+ fulvene, dimethyl-), TT 19, 1410
irradiated, P 30, 697*
cyanohydrin, V 70
2,4-dinitrophenylhydrazone, JA 85, 2787; V 233
2,4-dinitrophenylhydrazone-*N*-d, JA 85, 2787
phenylhydrazone, JA 85, 3626
acetyl-, CA 44, 518; CN 36, 794; JA 85, 224
(+ cobalt + γ-picoline), P 39, 1212
(+ copper), P 29, 33*; P 36, 3225*
(+ diethylamine), CN 36, 797
(+ titanium), P 38, 389*
(+ vanadium), IC 2, 257*; P 30, 592*; P 36, 3226*
(+ vanadium + pyridine), IC 2, 257*
(+ zirconium + trifluoroacetylacetone), JA 85, 3508
benzoyl-
(+ aluminum), JA 84, 2307
(+ cobalt), JA 84, 2307
(+ methane, tetranitro-), irradiated, SC 16, 1807*
(+ rhodium), JA 84, 2307
benzyl-, CN 41, 388; F[5] 28, 842
bromo-, AK 21, 504
chloro-, SA 19, 1696
1,1-dibenzyl-, F[5] 28, 842
1,3-dibenzyl-, F[5] 28, 842
1,1-dibromo-, AK 21, 504
1,3-dibromo-, AK 21, 504
1,1-diphenyl-, V 318
2-furoyltrifluoro-, HB 626
hexamethyl-,
potassium ketyl, JA 82, 4425*
sodium ketyl, JA 82, 4425*
phenyl-, HB 623
oxime, PC 65, 493
1,1,3,3-tetrabromo-, AK 21, 504
2-thenoyltrifluoro-, HB 628
1,1,1-tribromo-, AK 21, 504
1,1,3-tribromo-, AK 21, 504
trifluoroacetyl-
(+ aluminum), JA 85, 503
(+ cobalt), JA 85, 502
(+ gallium), JA 85, 503
(+ indium), JA 85, 503
(+ rhodium), JA 85, 503
(+ zirconium + acetylacetone), JA 85, 3508

Acetone-d_5, P 31, 1683

Acetone-d_6, P 31, 1282

Acetone-t, P 35, 760*

Acetonitrile, JA 83, 4727; P 34, 1064
(+ decaborane), C (1961), 2199
difluoro-, M 10, 144
methoxy-, V 28

Acetonitrile-d_1, JA 83, 4727
vinyl-, JA 85, 1902

Acetonitrile-d_2, JA 83, 4727

Acetophenone, CA 44, 514; HB 235; HB 622; P 37, 2816*; V 192
2,4-dinitrophenylhydrazone, OR 25, 1355
2-acetoxy-, V 254

4-carbomethoxy-, HB 372
4-chloro-, V 188
2,5-dimethyl-, HB 237
3,4-dimethyl-, HB 238
4-fluoro-, V 189
2-hydroxy-, P 39, 2895
4-hydroxy-, HB 242
2-hydroxy-6-methoxy-, PC 67, 1740
4-hydroxy-3-methoxy-, V 234
4-methyl-, HB 236; HB 430
2,4,6-trimethyl-, HB 239

Acetophenone-d, 4-methyl-, HB 430

Acetophenonimine, 2-hydroxy-
(+ copper), P 29, 37*

2-Acetothienone, AK 13, 286

3-Acetothienone, AK 13, 284

p-Acetotoluidide, V 239

Acetylene,
2-aminophenyl-, TT 19, 180
4-aminophenyl-, TT 19, 180
4-bromophenyl-, TT 19, 180
2-chlorophenyl-, TT 19, 180
4-chlorophenyl-, TT 19, 180
dimethyl-, JA 85, 1304
ethoxy-, R 81, 315
ethyl-, JA 85, 1304; P 33, 731
ethylthio-, R 81, 315
2-fluorophenyl-, TT 19, 180
4-fluorophenyl-, TT 19, 180
2-hydroxyethyl-, JA 84, 350
2-hydroxyphenyl-, TT 19, 180
methoxy-
(+ benzoic acid-d), P 32, 317
2-methoxyphenyl-, TT 19, 180
3-methoxyphenyl-, TT 19, 180
4-methoxyphenyl-, TT 19, 180
methyl-, JA 81, 4763; M 5, 112; M 7, 396; V 16
irradiated, P 31, 351*
2-nitrophenyl-, TT 19, 180
3-nitrophenyl-, TT 19, 180
4-nitrophenyl-, TT 19, 180
phenyl-, JA 85, 1304; P 38, 1219; V 186
2-thienyl-, AK 16, 522
m-tolyl-, TT 19, 180
o-tolyl-, TT 19, 180
p-tolyl-, TT 19, 180
trifluoromethyl-, M 7, 394
vinyl-, JA 84, 2004; JA 84, 2009

Acetylene-d_1, methyl-, P 31, 1425

Acetylene-$C^{12}C^{12}$, RL A269, 388

Acetylene-$C^{12}C^{13}$, RL A269, 388

Acetylene-$C^{13}C^{13}$, RL A269, 389

Acetylene-C^{13}, CN 41, 2115

Acetylenedicarboxylic acid
dimethyl ester
(+ thebaine), JA 85, 1638

Acetyl fluoride, JA 84, 2736
(+ antimony pentafluoride), JA 84, 2736
(+ boron trifluoride), JA 84, 2736
(+ phosphorus pentafluoride), JA 84, 2736
diethyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330
diphenyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330
ethyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330
phenyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330
triethyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330
triphenyl-, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330

Aconic acid,
α-isopropylidenemethyl-γ,γ-dimethyl-, J 35, 1197
α,γ,γ-trimethyl-, methyl ester, J 35, 1196

Acridine, SA 19, 1120
trans-10-benzoyloctahydro-, TT 19, 94
cis-octahydro-, TT 19, 92
cis-octahydro-10-methyl-, TT 19, 93

Acridine-10-d_1,
cis-octahydro-, TT 19, 92

Acridone, *N*-ethyl-, irradiated, O 12, 370*

Acrylamide,
irradiated, CP 60, 951*; PS 48, 199*; PS 56, 252*; PS 61, 336*
N-*t*-butyl-, irradiated, PS 48, 200*
N-methylol-, irradiated, PS 48, 200*

Acrylic acid, HB 476; P 34, 304; P 36, 1954
irradiated, PS A1, 3376*
ethyl ester, P 36, 1954
methyl ester, P 34, 305; V 64
(+ silane, methyldichloro-), ZA 164, 130
irradiated, CP 57, 673*; CP 60, 951*
potassium salt,
irradiated, PS 48, 200*; PS 57, 675*
sodium salt,
irradiated, PS 48, 200*; PS 57, 676*
cis-β-cyclobutyl-, ethyl ester, JA 82, 1968
trans-β-cyclobutyl-, ethyl ester, JA 82, 1968
β,β-dimethyl-, V 114
2-phenylsulfinyl-
(+ cyclopentadiene), C (1963), 3725
xanthopteryl-, methyl ester, H 46, 2599

Acrylic acid, 2-chloromethyl-, methyl ester-methacrylic acid methyl ester copolymer, PS A1, 2720

Acrylic acid ethyl ester-ethylene copolymer, AC 35, 1949

Acrylonitrile, FS 54, 412*; J 36, 1223; JA 83, 1301; P 34, 301; P 39, 2503; V 15
(+ kojic acid, α-deoxy-), JA 81, 2431
irradiated, CP 57, 673*; CP 60, 951*; PS 48, 58*
α-methylmercapto-, dimer, BE 92, 415

α-D-Acrylonitrile, JA 83, 1303

Acrylonitrile-glycol dimethacrylate copolymer, irradiated, PS 34, 204*

Acrylonitrile, α-methyl-, glycol dimethacrylate copolymer, irradiated, PS 34, 204*

Acumycin, H 45, 1398

Adenine,
9-(2′-amino-2′,3′-dideoxy-β-D-ribofuranosyl)-, JA 83, 1909
9-(3′-amino-2′,3′-dideoxy-β-D-ribofuranosyl)-, JA 83, 1909

Adenosine, JA 82, 226; JA 82, 230; JA 83, 2910; JA 84, 4465
2′,3′-cyclic monophosphate, JA 84, 63
3′,5′-cyclic monophosphate, JA 84, 63
2′-phosphate, JA 84, 63
3′-phosphate, JA 84, 63
triacetate, V 326
triphosphate, B 235, 3251; B 237, 178; JA 82, 227; NT 191, 65*
(+ copper), B 237, 178
(+ manganese), B 237, 178
tetramethylammonium salt, B 235, 3251
deoxy-, JA 84, 4465
2′-deoxy-, JA 83, 1909
3′-deoxy-, JA 83, 1909

5′-Adenylic acid, JA 82, 227

Adipic acid, HB 119; HB 473
irradiated, FS 54, 1129
dimethyl ester, HB 332; HB 580
hexamethylenediammonium salt, irradiated, P 39, 3165*

Adrenaline
(+ ceruloplasmin), AB 100, 108*
(+ copper), AB 100, 107*

Adrenosterone, JA 80, 5134

Agarofuran,
dihydro-, TT 19, 1083
4-hydroxydihydro-, TT 19, 1523

α-Agarofuran, TT 19, 1083

β-Agarofuran, TT 19, 1083
dihydro-, TT 19, 1083

Alane, bis(dimethylaminoborane)-bis(dimethylamino)-, IC 1, 613

Alanine
(+ cobalt), JA 85, 3739
glycyl-, JA 84, 4653
(+ cadmium), JA 84, 4653
(+ copper), JA 84, 4653
phenyl-, J 36, 579
irradiated, NT 197, 1106*; PC 62, 795*; SC 15, 796*
N-pyruvyl-, thiophenyl ester, BE 96, 2411

DL-Alanine, JA 81, 2871
hydrochloride, irradiated, CN 40, 1062*
acetyl-, irradiated, M 9, 432*; PC 62, 784*
alanyl-, irradiated, PC 62, 784*
DL-alanylphenyl-, irradiated, PC 62, 786*
chloroacetyl-, irradiated, M 9, 432*; PC 62, 784*
glycylphenyl-, irradiated, PC 62, 786*
phenyl-, JA 81, 2872

D-Alanine, acetylphenyl-, irradiated, PC 62, 786*

L-Alanine,
irradiated, P 32, 256*; P 36, 2158*
N-(2,4-dinitrophenyl)-, J 35, 1659
phenyl-*N*-(2,4-dinitrophenyl)-, J 35, 1659

L-Alanine-d_3, irradiated, P 36, 2158*

α-Alanine
(+ cobalt), FD 34, 94
irradiated, PC 62, 791*; SC 15, 793*

β-Alanine
(+ nickel), FD 34, 91
irradiated, PC 62, 791*; SC 15, 793*

Albumin, B 237, 1810; PS 38, 79
(+ cysteamine), irradiated, NT 190, 999*
(+ deuterium oxide), irradiated, JA 83, 1039*
irradiated, JA 83, 1039*; NT 190, 999*

Aldolase, B 237, 1813

Aldosterone,
DL-21-*O*-acetyl-, H 43, 2067
DL-21-*O*-acetyl-16α-methyl-, H 43, 2067

Aldrin,
endo-6-iodo-6,7-dihydro-*exo*-7-perfluoropropyl-, OR 27, 3029

Allene, JA 81, 4763; JA 85, 1303; P 39, 2164*
(+ aluminum, triethyl-), ZA 170, 201

Allium cepa, NT 184, 1402*

Allobetulone,
2α-bromo-, JA 85, 2797
2β-bromo-, JA 85, 2797

Allo-1,5-inosadiamine, hexaacetyl-, N 669, 78

Alloinositol, hexaacetate, CN 40, 871

α-Allokainic acid dimethyl ester, JA 35, 1899

Alloöcimene, PS 61, 314

3,20-Allopregnanedione, JA 80, 5134
21-acetate, JA 80, 5130
11α-hydroxy-, JA 80, 5128

3,11,20-Allopregnanetrione, JA 80, 5124

11α-Allopregnanol-3,20-dione, JA 80, 5128

16-Allopregnan-20-one, V 352

Alloquercitol, JA 83, 4244

β-D-Allose pentaacetate, JA 80, 6101

L-Allothreonine, *N*-(2,4-dinitrophenyl)-, J 35, 1659

Alloxan
(+ glutathione), SC 17, 905*; SC 17, 1679*

Alloxazine, AB 103, 245*
6,7-dichloro-, AB 103, 246*

Allyl, P 39, 2179*
1,3-bisdiphenylene-2-phenyl-, P 35, 1528

Allyl alcohol, FS 54, 1308*; V 34
(+ hydrogen peroxide), irradiated, C (1959), 287*
(+ titanium + hydrogen peroxide), C (1963), 3121*
irradiated, FS 54, 1309*

Allylamine, P 32, 1702; V 38
dimethyl-, alane, JA 82, 2143

Allyl bromide, V 24

Allylcarbinyl chloride, JA 83, 1988

Allylcarbinyl-γ-C^{13} chloride, JA 83, 1988

Allyl cyanide, BE 95, 2292; V 56

Allyl iodide, V 26
irradiated, P 34, 1173*

Allyl methyl sulfide, OR 28, 1954

Allyl sulfide, V 136

Allyl triphenylmethyl thioether, V 355

Allyl vinyl ether, V 110

α-D-Altrose pentaacetate, JA 80, 6101

Alumina, J 34, 758

α-Alumina, P 28, 1263

γ-Alumina, P 28, 1263

Alumina-copper (II) oxide, J 34, 1292*

Alumina-methylamine, J 35, 1547

Alumina-methylamine-*N*-d_2, J 35, 1547

Alumina-platinum, PY 33, 375*

Alumina-ruthenium, PY 33, 371*

α-Alumina-chromia, Z 21, 316

Aluminosilicate glass, irradiated, GL 3, 38*

Aluminum, P 28, 369; PC 67, 1300
(+ acetone, benzoyl-), JA 84, 2307
(+ acetone, trifluoroacetyl-), JA 85, 503
(+ cobalt + perchlorate), P 32, 554
bromodiethyl-, J 36, 1466
butoxydiethyl-, dimer, ZA 170, 185
t-butoxydimethyl-, dimer, FS 58, 645
chlorodiethyl-, HB 696; J 36, 1465; R 81, 732
(+ hydrazine, tetramethyl-), IC 2, 1252
(+ titanium, dichlorobis[cyclopentadienyl]-), JA 82, 4110*
dimer, ZA 170, 185
chlorodimethyl-
(+ titanium, dichlorobis[cyclopentadienyl]-), R 81, 228*
dimer, FS 58, 645
diethyl-
(+ titanium, dicyclopentadienyl-, dichloride), FS 59, 1810*
hydride, ZA 170, 182
hydride trimer, ZA 170, 185
trimer, FS 58, 645
ethoxydimethyl-, ZA 170, 184
dimer, FS 58, 645
ethyldichloro-
(+ titanium, dichlorobis[cyclopentadienyl]-), JA 82, 4110*
(+ titanium tetrachloride), R 81, 75*
iododiethyl-, J 36, 1467
methoxydimethyl-, trimer, FS 58, 645

triethyl-, HB 697; J 36, 1464; R 81, 730
(+ allene), ZA 170, 201
(+ sodium fluoride), ZA 170, 185
(+ sodium hydride), ZA 170, 185
(+ titanium, dichlorobis[cyclopentadienyl]-), JA 82, 4110*
dimer, ZA 170, 185
etherate, JA 81, 3827
triisobutyl-
(+ dialuminum, hexamethyl-), F[5]30, 1470
(+ titanium, dicyclopentadienyl-, dichloride), FS 59, 1812*
trimethyl-
(+ hydrazine, tetramethyl-), CN 41, 1364
(+ methylenediamine, *N,N,N',N'*-tetramethyl-), CN 41, 1365
(+ tetrazene, tetramethyl-), CN 40, 2186
(+ titanium, dichlorobis[cyclopentadienyl]-), R 81, 228*
(+ triethylamine), FS 58, 645
trivinyl-, etherate, PC 65, 228

Aluminum borohydride
(+ trimethylamine), IC 2, 517

Aluminum chloride hexahydrate, P 32, 1008

Aluminum hydride trimethylamine
(+ methylenediamine, *N,N,N',N'*-tetramethyl-), CN 41, 1366

Aluminum hydroxide, J 33, 1463

γ-Aluminum hydroxide, NT 183, 944

Amidotriphosphate, ZC 296, 223

Ammonia, CH 13, 14; F[5]28, 412; M 2, 542; P 36, 1097
(+ boron trifluoride), SA 10, 156
(+ cobalt), JA 82, 1074; M 2, 542
(+ cobalt + chloride), P 29, 210
(+ cobalt + fluoborate), P 29, 211
(+ cobalt + hydrogen peroxide), PC 63, 1893*
(+ decaborane), C(1963), 5817
(+ phosphorus pentachloride), G 74, 384
(+ silver), M 2, 542
(+ zinc), M 2, 542

Ammonium, CH 13, 14; M 2, 544; P 31, 86; P 34, 1581

Ammonium-N^{14}, CR 63, 91; P 36, 154

Ammonium-N^{15}, CR 63, 91; P 36, 155

Ammonium bifluoride, P 30, 1109

Ammonium borofluoride, P 32, 291

Ammonium chloride, P 33, 548

Ammonium chromate, FS 57, 216

Ammonium fluoberyllate, SD 12, 296

Ammonium fluorogermanate, SA 10, 156

Ammonium fluorotitanate, SA 10, 156

Ammonium hydrogen phthalate, SA 16, 855

Ammonium hydroxide, M 2, 542

Ammonium iodate-d_4, P 36, 1123

Ammonium iodide, FS 57, 217

Ammonium-d_4 monodeuterium phosphate, irradiated, SD 24, 210*

Ammonium monohydrogen phosphate, irradiated, SD 24, 210*

Ammonium nitrate, FS 57, 215; M 2, 542
(+ rubidium nitrate), FS 57, 215

Ammonium perchlorate, irradiated, P 35, 1169*; PC 65, 1637*

Ammonium-d_4 perchlorate, irradiated, P 35, 1171*

Ammonium persulfate, FS 57, 217

Ammonium sulfate, FS 57, 216; SD 12, 296

Ammonium sulfate-d_8, P 36, 1123

Ammonium tellurate, FS 57, 217

Ammonium tetrapolyphosphate, IC 1, 815

Ammonium thiocyanate, FS 57, 216; M 2, 542; M 3, 31

Ammonium trihydrogen periodate, SA 16, 855

Ammonium vanadate, FS 57, 217

Amphibian whole cortical bone, NT 199, 1304*

Amyl alcohol, HB 135; HB 523
irradiated, P 30, 697*

t-Amyl alcohol, C(1959), 273*; FS 54, 1309*; JA 84, 39

t-Amyl alcohol-2-C^{13}, JA 84, 39

2-Amylene, irradiated, P 31, 349*

Amyl iodide, irradiated, JA 85, 3732*

Amyl methyl sulfide, V 144

Amyl pentafluorosulfate, nonafluoro-, IC 1, 218

1,3-Androstadien-17β-ol acetate, OR 28, 1979

2,4-Androstadien-17β-ol acetate, OR 28, 1979

4,6-Androstadien-17β-ol-3-one, 6-methoxy-, BE 94, 1232

Androstane, 3,11,17-triketo-, F[5]30, 2565

5β-Androstane,
3α-cyclohexyloxy-17β-hydroxy-, H 45, 763
3α,9-oxido-17-keto-, H 45, 764

3β,17β-Androstanediol, 17α-methyl-, AN 50, 1202

5β-Androstane-11,17-dione, 3α-hydroxy-, C(1960), 5120

5α-Androstan-19-oic acid, 2β,17β-dihydroxy-3,3-dimethoxy-, 2,19-lactone, JA 84, 4977

5α-Androstan-17β-ol, 3,3-dimethoxy-2β,19-epoxy-, JA 84, 4976

11-Androstanol, F[5]30, 2565

17β-Androstanol,
17α-ethynyl-, V 335; V 351

3α-Androstanol-17-one, JA 80, 5125

3β-Androstanol-17-one, JA 80, 5125

5α-Androstan-3β-ol-7-one, JA 85, 2811

5α-Androstan-3β-ol-7-one-d_2, JA 85, 2812

5α-Androstan-3β-ol-7-one-6, 6, 8β-d_3, JA 85, 2812

5α-Androstan-11-one, JA 85, 2811
3β-acetoxy-, C(1960), 5120

5α-Androstan-11-one-1α-d_1, JA 85, 2811

5α-Androstan-11-one-9α-d_1, JA 85, 2811

5α-Androstan-11-one-12β-d_1, JA 85, 2811

5α-Androstan-11-one-9α,12α-d_2, JA 85, 2811

5α-Androstan-11-one-9α,12,12-d_3, JA 85, 2811

5α-Androstan-11-one-1,1,3,3-d_4, JA 85, 2811

5α-Androstan-11-one-2,2,4,4-d_4, JA 85, 2811
irradiated, JA 85, 2811

5β-Androstan-11-one,
3α-acetoxy-, C(1960), 5120
3-ethylenedioxy-12α-methyl-, C(1960), 5120

11-Androstanone, F[5]30, 2565

4-Androstene,
3,17-diketo-11-hydroxy-, F[5]30, 2565
3,11,17-triketo-, F[5]30, 2565

5β-Androst-11-ene,
3α-hydroxy-17β-acetoxy-, H 45, 766
3α,9-oxido-17β-acetoxy-, H 45, 767

5-Androstene-3β,17β-diol, 17α-methyl-, AN 50, 1200

4-Androstene-3,17-dione,
6α-fluoro-, JA 85, 3038
6β-fluoro-, JA 85, 3038

4-Androstene-17β-[4α]-[1,4; 5,8]-*trans*-naphthodioxane-3,11-dione, OR 28, 766

5-Androsten-11-one-17β-[1,4; 5,8]-*trans*-naphthodioxane 3-ethylene dioxide, OR 28, 766

4-Androstene-3,11,17-trione, JA 80, 5134

4-Androsten-17β-ol-3-one, JA 80, 5124

5-Androsten-3-one, 4,4,17α-trimethyl-17β-hydroxy-, JA 82, 1000

5-Androsten-17-one,
3α-acetamido-, OR 27, 4628
3β-acetamido-, OR 27, 4628

Androsterone, JA 80, 5125

Anethole, V 258

Angelic acid, J 33, 428
β-bromo-, methyl ester, AK 16, 480

Aniline, CA 44, 519; CH 14, 150; HB 283; HB 638; N 669, 19; OR 27, 4642; P 38, 1416; ZA 170, 188
(+ phosphonitrilic chloride tetramer), JA 82, 5617
4-chloro-, V 123
2,4-dichloro-, P 31, 1001
2,5-dichloro-, CN 41, 2915; P 31, 1001
3,5-dichloro-, FS 55, 717
N,N-dimethyl-, HB 640; P 38, 1422
2,3-dimethyl-, P 38, 1417
2,4-dimethyl-, P 38, 1417
2,5-dimethyl-, P 38, 1417
2,6-dimethyl-, P 38, 1417
3,5-dimethyl-, P 38, 1420
2,4-dinitro-, FS 55, 717; J 35, 1660

4-fluoro-, RL A246, 430
4-iodo-, P 37, 2598
N-methyl-, CH 14, 150; HB 639
2-nitro-, PC 67, 525
2-nitro-4-chloro-, FS 55, 709
3-nitro-5-methoxy-, FS 55, 709
N,N,2,4,6-pentamethyl-, P 38, 1426
2-propyl-, ZA 170, 201
N,N,2,3-tetramethyl-, P 38, 1423
N,N,2,4-tetramethyl-, P 38, 1426
N,N,2,5-tetramethyl-, P 38, 1426
N,N,2,6-tetramethyl-, CN 38, 2228; P 38, 1426
2,4,6-tri-*t*-butyl-, irradiated, C(1961), 3541*
2,4,6-trimethyl-, P 38, 1420

Aniline-d_5, N 669, 19

Anilino, 2,4,6-tri-*t*-butyl-, FS 59, 819*

Anisaldehyde, J 33, 923; V 194

o-Anisidine, V 172

p-Anisidine, V 171

Anisole, FD 34, 173; JA 83, 1847; V 162
4-bromo-, P 38, 481
4-chloro-, P 37, 2599
2,6-dimethyl-, CN 38, 2228
2,4-dinitro-, V 149
4-iodo-, V 153
2-methyl-, HB 636
3-methyl-, HB 637
4-methyl-, V 205
4-nitro-, C(1963), 5422*; HB 287

p-Anisyldiphenylmethyl, CN 37, 1407

[14]Annulene, JA 84, 4308
monodehydro-, JA 84, 4308

[18]Annulene, JA 84, 4309
tridehydro-, JA 84, 4309

[24]Annulene, JA 84, 4310
tetradehydro-, JA 84, 4310

Anthracene, C(1959), 949*; FS 58, 1634*; HB 472; J 36, 229*; JA 80, 4552*; P 32, 309*; P 36, 2443; SA 18, 785*; T 9, 933*
9,10-dihydro-, V 307
9,10-dimethyl-, T 9, 933*
1,2-dimethyl-1,2-dihydro-, H 44, 1980
9-methyl-, TT 19(S2), 85; V 317
cis-anti-cis-perhydro-, JA 83, 966
cis-syn-cis-perhydro-, JA 83, 966
trans-anti-trans-perhydro-, JA 83, 966
trans-syn-trans-perhydro-, JA 83, 966

14α-Anthraergosta-5,7,9-triene, JA 85, 1136

14β-Anthraergosta-5,7,9-triene, JA 85, 1136

Anthraquinone,
diamino-
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cytosine), PC 67, 2638*
(+ maleic anhydride), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*
(+ 3-pyrazolidone, 1-phenyl-), PC 67, 2638*
(+ thymine), PC 67, 2638*

Anthrasemiquinone, C(1961), 4276*

Antifoaming agent, HB 427

Antimony pentachloride
(+ carbazole), J 36, 308*
(+ 2,2′-dinaphthyl disulfide), J 36, 308*
(+ tetracene), J 34, 894*
(+ thianthrene), J 35, 1138*

Antimony pentafluoride, JA 85, 1331; PC 62, 365
(+ acetyl fluoride), JA 84, 2736
(+ acetyl fluoride, diethyl-), JA 85, 1330
(+ acetyl fluoride, diphenyl), JA 85, 1330
(+ acetyl fluoride, phenyl-), JA 85, 1330
(+ acetyl fluoride, triethyl-), JA 85, 1330
(+ acetyl fluoride, triphenyl-), JA 85, 1330
(+ benzoyl fluoride), JA 84, 2736
(+ butyryl fluoride), JA 85, 1330
(+ isobutyryl fluoride), JA 85, 1330
(+ pivalyl fluoride), JA 85, 1330
(+ propionyl fluoride), JA 84, 2736; JA 85, 1330

Antimycin A_1, JA 83, 1644

Apatite, PC 66, 677*

β-Apo-8′-carotenal, G 72, 910
15,15′-dehydro-, C(1960), 2876

β-Apo-8′-carotenal (C_{30}), CH 15, 221

Aprobit, SC 15, 1549*

α-L-Arabinose tetraacetate, C(1963), 1540; JA 80, 6101

β-L-Arabinose, tetraacetate, C(1963), 1540; JA 80, 6101

7,9(11)-Arboradiene, 3α-acetoxy-, N 668, 67

Arborine, TT 16, 247

Arcanose, 4-*O*-acetyl-, H 45, 147

Arginine sodium salt, irradiated, PS 50, 350*

L-Arginine, JA 81, 2872
irradiated, PC 62, 797*

Argon
(+ nitrogen), irradiated, PC 63, 1765*

Arsenic pentafluoride
(+ acetyl fluoride), JA 84, 2736
(+ benzoyl fluoride), JA 84, 2736
(+ propionyl fluoride), JA 84, 2736

Arsine,
methyltriphenyl-, tetracyanoquinodimethane salt, P 35, 1008*
tris(perfluorovinyl)-, SA 17, 970

Artemia cysts, S 142, 504*
irradiated, S 142, 503*

(+)-Asarinin, BE 94, 2528

Ascaridole, V 276

Ascorbic acid
(+ hydrogen peroxide + peroxidase), B 235, 2446*
(+ melanin), AB 86, 227*

Asiatic acid methyl ester triacetate, OR 27, 4517

DL-Asparagine,
irradiated, PC 62, 797*
DL-alanyl-, irradiated, PC 62, 784*

Asparaginic acid, D-(+)-*N*-methyl-, dipropyl ester, H 45, 2009

L-Asparaginic acid, H 46, 66
N-acetyl-, H 46, 67

Aspartic acid
(+ cobalt), FD 34, 94
irradiated, SC 15, 795

DL-Aspartic acid, P 36, 2728*
hydrochloride, irradiated, C(1961), 4265*

D-Aspartic acid, irradiated, PC 62, 797*

L-Aspartic acid, *N*-(2,4-dinitrophenyl)-, J 35, 1659

Asphaltene, P 29, 1188*; P 31, 281

Aspidoalbine, methoxy-*N*-despropionyl-, FD 34, 112

Aspidolimin, H 45, 2262

Aspidosine, *N*-acetyl-, JA 80, 5179

Aspidospermine, JA 80, 5179
bromocyanamide, JA 80, 5179
cyanamide, JA 80, 5179
dihydromethine, JA 80, 5179
deacetyl-, JA 80, 5179

Aspirin, AC 35, 1683

Aucuparin, SC 17, 1153
methoxy-, SC 17, 1153

Avenaciolide, C(1963), 5386

2-Aza-allyl, bis(biphenylene)-, MO 94, 16*

1-Azacycloheptane, 1-methyl-3-ethyl-3-methoxy-, OR 28, 1500

1-Azacycloheptan-2-one, 7-oximino-, J 34, 1813

Azafrin, methyl-, I 40, 926

3-Azapentadienyl, 1,1,5,5-bis(biphenylene)-, MO 94, 11*

3-Aza-2-pentene, 2,4-bis(trifluoromethyl)-1,1,1,4,5,5,5-heptafluoro-, OR 27, 4167

6-Azauracil, JA 84, 1043

2H-Azepin-2-one, 1,3-dihydro-1,3,5,7-tetramethyl-, OR 28, 3591

Azetidine, *N*-nitroso-, JA 83, 4419

Aziridine,
1-methyl-2,2-dimethyl-, JA 82, 3600
1-methyl-2-methylene-, JA 82, 3600

Aziridinium fluoroborate, 2,2-pentamethylene-1,1-tetramethylene-, JA 84, 4809

Azobenzene
(+ hydrazobenzene), JA 84, 4156*
2,4,6-trimethoxy-4′-chloro-, AK 20, 199

Azobenzoic acid, 4-phenyl-,
4-cyclobutoxybutyl ester, JA 82, 1968
cyclobutyl ester, JA 82, 1968
ω-cyclopropylcarbinoxy ester, JA 82, 1968
cyclopropylcarbinyl ester, JA 82, 1968

1-Azobis-1-phenylpropane, JA 85, 2753

Azodicarboxylic acid
diethyl ester, JA 85, 2737*

ethyl ester
(+ 1,3-cyclohexadiene), OR 28, 2955
(+ 1,3-cyclohexadiene-1,4-d_2), OR 28, 2955

1-Azoniabicyclo[4.1.0]heptane, 1-methyl-6-ethyl-, perchlorate, OR 28, 1500

1-Azoniatetracyclo[7.3,2.0^{1,13}0^{5,13}]tetradecane perchlorate, OR 28, 1502

1-Azoniatricyclo[8.1.0.0^{5,10}]undecane, 1-methyl-, OR 28, 1502

Azotobacter vinelandii OP, NT 196, 434*
(+ dithionite), NT 196, 434*
(+ ferricyanide), NT 196, 434*

4-Azoxyanisole, P 29, 1196

4-Azoxyphenetole, P 29, 1196

Azulene, C(1959), 3129; C(1960), 4292; CH 17, 179; CN 40, 1778; H 46, 2484; JA 80, 3498; JA 82, 998; JA 83, 1840; P 36, 2810*; P 37, 1491*
(+ iron pentacarbonyl), C(1960), 4292
1-benzyl-, C(1959), 3129
2-benzyl-, C(1959), 3129
5-benzyl-, C(1959), 3129
6-benzyl-, C(1959), 3129
5,8-dimethyl-, H 46, 2485
3,8-dimethyl-5-isopropyl-, H 46, 2485
4,8-dimethyl-6-methoxy-, H 46, 2486
4,8-dimethyl-6-phenyl-, H 46, 2486
2-methyl-, H 46, 2484
3-methyl-, H 46, 2484
4-methyl-
(+ iron carbonyl), C(1960), 4292
6-methyl-, H 46, 2485
7-methyl-, H 46, 2485
8-methyl-, H 46, 2484
8-methyl-4,6-diphenyl-, H 46, 2486
1-nitro-, H 45, 1968
4,6,8-trimethyl-, C(1960), 4292; CN 40, 1780; H 46, 2486; JA 83, 1840; N 624, 48; ZA 170, 190
(+ iron pentacarbonyl), C(1960), 4292

Azure A, P 37, 1480*

B

Bacterial spores, irradiated, S 132, 1768*

Barium chlorate monodeuterate, P 39, 948

Barium fluoride-manganese, P 38, 973*

Barium oxide, SD 12, 68*

Barium titanate, SD 10, 2*

Basic Bright Green, O 9, 414*

Bayerite, J 33, 1463

Beef eye melanin, AB 100, 173*

Beef heart diphosphopyridine nucleotide dehydrogenase, NT 196, 434*

Benzaldehyde, HB 220; HB 619; V 151
4-chloro-, V 146
2,4-dichloro-, P 37, 1009
2,4-dihydroxy-, P 37, 1010
2,4-dimethoxy-, P 37, 1009
3,4-dimethoxy-, V 236
4-dimethylamino-, V 238
4-isopropyl-, HB 364
2-nitro-, P 38, 2004*; V 148
irradiated, PC 67, 1379*
4-nitro-, JA 83, 1853*; P 38, 2005*
2,4,5-trimethyl-, HB 620

1,2-Benzanthracene, P 38, 1453

Benzene, CA 44, 477; CA 44, 519; CA 45, 164; CN 40, 1761; CR 63, 107; HB 70; JA 83, 1840; JA 85, 1301; P 32, 309*; P 33, 1888; P 39, 2187*; SA 18, 785*
(+ chromium), O 8, 71*
(+ chromium + biphenyl), IN 16, 200*
(+ hydrazyl, 1,1-diphenyl-2-picryl-), SC 12, 1535*
(+ iron + sulfuric acid), irradiated, O 11, 42*
irradiated, O 11, 42*; P 37, 2403*
1-bromo-4-chloro-, IS 54A, 5; P 37, 2599; P 38, 482
1-bromo-4-fluoro-, V 121
1-bromo-4-iodo-, JA 85, 382
t-butyl-, CN 38, 627; FS 59, 54*; HB 457; JA 85, 1304
chloro-, P 35, 732
irradiated, P 37, 2404*
1-chloro-4-iodo-, FS 54, 1281; IS 54A, 6
1-chloro-4-nitro-, C(1963), 5422*; V 122
α,α-1,4-diacetoxyhexamethyl-, HB 585
1,4-diacetyl-, P 37, 2817*
2,5-dibromo-1-nitro-, FS 55, 709
1,2-dichloro-, P 36, 2088; P 38, 484; CN 40, 1761; P 35, 1133; P 35, 1292
2,4-dichloro-3,5-difluoronitro-, CN 41, 2708
1,2-diethyl-, HB 84
1,3-diethyl-, HB 85
1,4-diethyl-, HB 86
2,3-difluoro-5,6-dibromonitro-, CN 41, 2707
1,5-difluoro-2,4-dinitro-, CN 40, 432
1,4-di-(hydroxymethyl)-, HB 550
1,4-diisopropenyl-, HB 311
hydroperoxide, HB 643

ethyl ester
(+ 1,3-cyclohexadiene), OR 28, 2955
(+ 1,3-cyclohexadiene-1,4-d_2), OR 28, 2955

1-Azoniabicyclo[4.1.0]heptane, 1-methyl-6-ethyl-, perchlorate, OR 28, 1500

1-Azoniatetracyclo[7.3,2.0^{1,13}0^{5,13}]tetradecane perchlorate, OR 28, 1502

1-Azoniatricyclo[8.1.0.0^{5,10}]undecane, 1-methyl-, OR 28, 1502

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4-Azoxyphenetole, P 29, 1196

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1-benzyl-, C(1959), 3129
2-benzyl-, C(1959), 3129
5-benzyl-, C(1959), 3129
6-benzyl-, C(1959), 3129
5,8-dimethyl-, H 46, 2485
3,8-dimethyl-5-isopropyl-, H 46, 2485
4,8-dimethyl-6-methoxy-, H 46, 2486
4,8-dimethyl-6-phenyl-, H 46, 2486
2-methyl-, H 46, 2484
3-methyl-, H 46, 2484
4-methyl-
(+ iron carbonyl), C(1960), 4292
6-methyl-, H 46, 2485
7-methyl-, H 46, 2485
8-methyl-, H 46, 2484
8-methyl-4,6-diphenyl-, H 46, 2486
1-nitro-, H 45, 1968
4,6,8-trimethyl-, C(1960), 4292; CN 40, 1780; H 46, 2486; JA 83, 1840; N 624, 48; ZA 170, 190
(+ iron pentacarbonyl), C(1960), 4292

Azure A, P 37, 1480*

B

Bacterial spores, irradiated, S 132, 1768*

Barium chlorate monodeuterate, P 39, 948

Barium fluoride-manganese, P 38, 973*

Barium oxide, SD 12, 68*

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Basic Bright Green, O 9, 414*

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3,4-dimethoxy-, V 236
4-dimethylamino-, V 238
4-isopropyl-, HB 364
2-nitro-, P 38, 2004*; V 148
irradiated, PC 67, 1379*
4-nitro-, JA 83, 1853*; P 38, 2005*
2,4,5-trimethyl-, HB 620

1,2-Benzanthracene, P 38, 1453

Benzene, CA 44, 477; CA 44, 519; CA 45, 164; CN 40, 1761; CR 63, 107; HB 70; JA 83, 1840; JA 85, 1301; P 32, 309*; P 33, 1888; P 39, 2187*; SA 18, 785*
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(+ chromium + biphenyl), IN 16, 200*
(+ hydrazyl, 1,1-diphenyl-2-picryl-), SC 12, 1535*
(+ iron + sulfuric acid), irradiated, O 11, 42*
irradiated, O 11, 42*; P 37, 2403*
1-bromo-4-chloro-, IS 54A, 5; P 37, 2599; P 38, 482
1-bromo-4-fluoro-, V 121
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t-butyl-, CN 38, 627; FS 59, 54*; HB 457; JA 85, 1304
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irradiated, P 37, 2404*
1-chloro-4-iodo-, FS 54, 1281; IS 54A, 6
1-chloro-4-nitro-, C(1963), 5422*; V 122
α,α-1,4-diacetoxyhexamethyl-, HB 585
1,4-diacetyl-, P 37, 2817*
2,5-dibromo-1-nitro-, FS 55, 709
1,2-dichloro-, P 36, 2088; P 38, 484; CN 40, 1761; P 35, 1133; P 35, 1292
2,4-dichloro-3,5-difluoronitro-, CN 41, 2708
1,2-diethyl-, HB 84
1,3-diethyl-, HB 85
1,4-diethyl-, HB 86
2,3-difluoro-5,6-dibromonitro-, CN 41, 2707
1,5-difluoro-2,4-dinitro-, CN 40, 432
1,4-di-(hydroxymethyl)-, HB 550
1,4-diisopropenyl-, HB 311
hydroperoxide, HB 643

1,4-diisopropyl-, HB 89; HB 455
1,2-dimethoxy-, JA 83, 1847
1,3-dimethoxy-, FD 34, 173; JA 83, 1847
1,4-dimethoxy-, JA 83, 1847
1,2-dimethoxy-4-methyl-, JA 83, 1847
1,4-dimethoxy-2,3,5-trimethyl-, OR 27, 842
2,5-dimethoxy-3,4,6-trimethyl-α-hydroxyethyl-, OR 26, 3225
1,2-dimethyl-, HB 72; HB 452
1,3-dimethyl-, HB 73; HB 453
1,4-dimethyl-, HB 74; HB 454
2,6-dimethyl-1-fluoro-, CN 38, 2229
2,6-dimethyl-1-nitro-, C(1963), 5421*
1,2-dinitro-, J 33, 1129; P 33, 828*
potassium salt, JA 83, 1298*
1,3-dinitro-, J 33, 1129; P 32, 1222; P 33, 828*; P 39, 2441
lithium salt, P 32, 416*
potassium salt, P 32, 411*
sodium salt, P 36, 1406*
1,3-dinitro-N_2^{15}-, potassium salt, P 32, 412*
1,4-dinitro-, P 33, 829*
potassium salt, JA 83, 1298*
dodecyl-, HB 92; HB 460
ethyl-, HB 82; JA 85, 1304; JA 85, 2669; ZA 170, 184
ethyl-d-, HB 83
fluoro-, AC 33, 218; J 32, 102; M 2, 526; P 32, 1640
1-fluoro-2,6-dichloro-, P 34, 1846
1-fluoro-2,4-dinitro-, CN 40, 432; IS 52A, 110
1-fluoro-4-nitro-, C(1963), 5421*; JA 83, 1853*
hexamethyl-, FD 34, 167; HB 81; JA 83, 1840
iodo-, P 38, 1407
1-iodo-2,4-dimethyl-, P 38, 1408
1-iodo-2,6-dimethyl-, P 38, 1408
isopropyl-, HB 88; JA 85, 1304
irradiated, NT 185, 30*
1-methyl-4-(1-chloroethyl)-, HB 431
1-methyl-4-nitro-, P 32, 1219
1-nitro-, AC 34, 920*; CA 44, 519; HB 286; IS 56A, 90; J 33, 1129; JA 82, 2673*; M 2, 553; P 35, 734; P 38, 1433
(+ furan, tetrahydro-), P 38, 2588*
(+ furan-d_8, tetrahydro-), P 38, 2588*
potassium salt, JA 83, 1297*
sodium salt, JA 83, 1297*
N^{15}-nitro-, P 28, 518*
1-nitro-4-chloro-, HB 685
1-nitro-2,3-dimethyl-, P 38, 1434
1-nitro-2,4-dimethyl-, P 38, 1434
1-nitro-2,5-dimethyl-, P 38, 1434
1-nitro-2,6-dimethyl-, P 38, 1437
1-nitro-3,4-dimethyl-, P 38, 1434
1-nitro-2,4,6-trimethyl-, P 38, 1437
nitroso-
(+ benzenethiolic acid, 4-chloro-, sodium salt), JA 85, 3036*
nonyl-, HB 459
octyl-, HB 458
pentamethyl-, TT 19(S2), 84; V 287
1-phenyl-4-nitro-, C(1963), 5421*
trans -propenyl-, P 30, 948
propyl-, HB 87
1,2,3,4-tetracarbomethoxy-5-nitro-, F[5]29, 1257
1,2,4,5-tetrachloro-3,6-dimethyl-, HB 673
2,3,5,6-tetrachloronitro-, CN 40, 1760
tetraisopropyl-, HB 91
1,2,3,4-tetramethyl-, HB 78
1,2,3,5-tetramethyl-, HB 79
1,2,4,5-tetramethyl-, HB 80
1,2,4,5-tetramethyl-3,6-dichloromethyl-, HB 682
α,α,α-1,3,5-triacetoxyhexamethyl-, HB 586
1,2,4-trichloro-, HB 268
1,3,5-trichloro-, CN 40, 1760
1,3,5-trichloro-2,4-di-(chloromethyl)-6-methyl-, HB 684
trichloromethylpentamethyl-, JA 82, 5423
1-trichloromethyl-2,3,4,5,6-pentamethyl-, JA 83, 4462
1-trichloromethyl-2,3,4,5-tetramethyl-, JA 83, 4462
1-trichloromethyl-2,4,6-trimethyl-, JA 83, 4462
1,3,5-trichloro-2,4,6-trimethyl-, HB 674
1,2,3-trihydroxy-, P 37, 2621
triisopropyl-, HB 90
1,3,5-triisopropyl-, HB 456
1,2,4-trimethoxy-, JA 85, 3942
1,3,5-trimethoxy-, AK 20, 195
1,2,3-trimethyl-, HB 75
1,2,4-trimethyl-, HB 76
1,3,5-trimethyl-, HB 77
1,2,4-trimethyl-5-bromo-, HB 671
1,3,4-trimethyl-6-cyano-, HB 691
1,3,5-trimethyl-2,4-dichloromethyl-, HB 681
1,3,5-trimethyl-2,4,6-trichloromethyl-, HB 683
1,3,5-trinitro-
(+ diethylamine), NT 186, 150*
(+ triphenylamine), JA 85, 2560*
irradiated, SC 16, 1044*
sodium salt, JA 83, 1298*
trismethylenetrinitro-, R 79, 1240
vinyl-, ZA 170, 188

Benzene-d, 1,3,5-trimethoxy-, AK 20, 195

Benzene-d_1, CN 39, 230
(+ chromium), IN 16, 200*
2-nitro-, P 30, 853*
3-nitro-, P 30, 853*
4-nitro-, P 30, 853*

Benzene-3-d_1, 1,2-dinitro-, P 33, 831*

Benzene-4-d_1,
1,3-dinitro-, potassium salt, P 32, 415*
fluoro-, M 2, 530
nitro-, P 35, 734

Benzene-5-d_1, 1,3-dinitro-, potassium salt, P 32, 416*

Benzene-3,5-d_2,
chloro-, P 35, 732
nitro-, P 35, 734

Benzene-2,4,6-d_3,
chloro-, P 35, 732
fluoro-, M 2, 529
nitro-, P 35, 734

Benzene-d_4,
1,3-dinitro-, P 33, 830*
potassium salt, P 32, 414*

Benzene-2,3,5,6-d_4, fluoro-, M 2, 528

Benzene-1,2-dicarboxylic acid, HB 209

Benzene-1,3-dicarboxylic acid, HB 212

Benzene-1,4-dicarboxylic acid, HB 214; HB 506

Benzene-3,5-dicarboxylic acid, 1-nitro-, FS 55, 717

1,2-Benzenediol, HB 252; HB 564

1,3-Benzenediol, HB 256

1,4-Benzenediol, HB 260; HB 570

Benzeneonium, 1,1,2,3,4,5,6-heptamethyl-, HB 698

Benzene-1,2,4,5-tetracarboxylic acid, HB 217

Benzenethiol, HB 409
(+ 1,3-butadiene), JA 84, 3898; OR 28, 2358
(+ 1,3-butadiene, 2-chloro-), JA 84, 3898
(+ 1,3-butadiene, 2,3-dimethyl-), OR 28, 2356
(+ 1,3-butadiene, 2-methyl-), JA 84, 3898
(+ chloroprene), JA 84, 3898
(+ 2,4-hexadiene, 2,5-dimethyl-), OR 28, 2353
(+ isoprene), JA 84, 3898; OR 28, 2356
(+ 1,3-pentadiene), JA 84, 3898
(+ piperylene), JA 84, 3898

Benzenethiolic acid, 4-chloro-, sodium salt
(+ benzene, nitroso-), JA 85, 3036*

Benzene-1,2,4-tricarboxylic acid, HB 215

Benzene-1,3,5-tricarboxylic acid, HB 216

1,3,5-Benzenetriol, HB 571

Benzidine
(+ copper + iodide), CP 60, 370*
(+ copper + thiocyanate), CP 60, 370*
diphenyl-
(+ lead dioxide), IS 53A, 286*
N,N'-tetramethyl-, P 36, 2814*

Benzidine-d, *N,N'*-tetramethyl-, P 36, 2814*

Benzil, P 39, 1797*

Benzimidazole, 1-acetyl-, C(1963), 1418

Benzobicyclo[2.2.2]octatriene, JA 85, 1799

1,2-Benzo-1,3,5-cycloheptatriene-6-carboxylic acid, BE 94, 2388

1,5-Benzodiazepine, 2,4-dimethyl-, C(1959), 1425

1,4-Benzodioxane, 2-formyl-, TT 18, 292

2H-1,5-Benzodioxepin, 3-keto-3,4-dihydro-, TT 18, 292

1,3-Benzodioxolane,
cis-hexahydro-2,4-dimethyl-, C(1961), 3622
trans-hexahydro-2,4-dimethyl-, C(1961), 3622
cis-hexahydro-2-methyl-, C(1961), 3622
trans-hexahydro-2-methyl-, C(1961), 3622

4,5-Benzo-1,2-dithiol-3-one, tetrahydro-, F[5]26, 1672

Benzofuran, HB 378

Benzofurazan, ZA 181, 454
oxide, H 45, 505

Benzofuroxan, C(1963), 199; ZA 181, 454
4-nitro-, C(1963), 201
5-nitro-, C(1963), 200
6-nitro-, C(1963), 200

Benzoic acid, HB 185
(+ copper + pyridine), CP 60, 370*
irradiated, P 37, 2404*
benzyl ester, HB 597
methyl ester, HB 221; HB 591
2-acetoxy-, HB 497
4-chloromethyl-, HB 503
3,5-dibromo-, FS 55, 717
3,5-dihydroxy-, FS 55, 708
2,4-dimethyl-, HB 193
2,4-dimethylbenzyl ester, HB 599
2,5-dimethylbenzyl ester, HB 600
3,5-dimethylbenzyl ester, HB 601
methyl ester, HB 594
2,5-dimethyl-, HB 197
2,4-dimethylbenzyl ester, HB 602
2,5-dimethylbenzyl ester, HB 603
methyl ester, HB 595
3,4-dimethyl-, HB 201
3,5-dimethyl-, HB 487
2,4-dimethylbenzyl ester, HB 604
3,5-dimethylbenzyl ester, HB 605
methyl ester, HB 596
3,5-dinitro-, FS 55, 717
2-hydroxy-, HB 489
4-hydroxy-, HB 494

4-hydroxy-3,5-di-*t*-butyl-, ethyl ester, N 645, 41*
4-isopropenyl-, methyl ester, HB 365
4-isopropyl-, HB 352
2-methoxy-, HB 354; HB 501; V 195
4-methoxy-, HB 357; V 196
2-methyl-, HB 485
2-methylbenzyl ester, HB 598
3-methyl-, methyl ester, HB 592
4-methyl-, HB 486
methyl ester, HB 593
4-nitro-, C(1963), 5422*
methyl ester, C(1963), 5422*
pentamethyl-, JA 82, 5423
2,4,5-trimethyl-, HB 204; HB 488
2,4,5-trimethylbenzyl ester, HB 606
2,4,6-trimethyl-, HB 205

Benzoic acid-d
(+ acetylene, methoxy-), P 32, 317

6,7-Benzomorphan,
α-(+)-2′-hydroxy-2,5,9-trimethyl-, OR 27, 2146
β-(±)-2′-hydroxy-2,5,9-trimethyl-, OR 27, 2146

Benzonitrile, P 32, 1592*; P 37, 829*
2,5-dichloro-, FS 55, 717
3,4-dichloro-, FS 55, 708
4-dimethylamino-, Z 33, 77
2-iodo-5-nitro-, FS 55, 709
2-nitro-4-chloro-, FS 55, 708

2,3-Benzo-2,4-norcaradiene-7-carboxylic acid, BE 94, 2337

Benzophenone, P 37, 2816*
ketyl, C(1963), 5415*
potassium ketyl, J 35, 1746*; P 37, 1884*
4-*t*-butyl-, potassium ketyl, J 35, 1746*
4,4′-di-*t*-butyl-, potassium ketyl, J 35, 1746*
4,4′-dimethyl-, potassium ketyl, J 35, 1746*
4-methyl-, potassium ketyl, J 35, 1746*
4-phenyl-, P 36, 3094*

Benzopyrene, HB 113

Benzoquinone
(+ cyclopentadiene), H 45, 1873

1,2-Benzoquinone,
3,4,5,6-tetrabromo-
(+ perylene), P 36, 1205*
(+ *p*-phenylenediamine, *N,N,N′,N′*-tetramethyl-), P 30, 766*
3,4,5,6-tetrachloro-
(+ perylene), P 36, 1206*

1,4-Benzoquinone, HB 262; HB 373; J 36, 1539*
(+ cytosine), PC 67, 2638*
(+ thymine), PC 67, 2638*
2,5-di-*t*-butyl-, V 314
3,5-di-*t*-butyl-, methide, TT 19, 1204*
2-fluoro-5-chloro-, reduced, P 32, 200*
2-(α-furyl)-3-acetyl-, H 46, 819
geranylgeranyltrimethyl-, H 46, 2519
solanesyltrimethyl-, H 46, 2519

Benzosemiquinone, dimethyl-, P 28, 775*

1,4-Benzosemiquinone, B 235, 2445*; CH 14, 159*; F[5]26, 1709*; HB 699; P 33, 1880*; P 34, 759*; P 35, 1741*
2-amino-5-hydroxy-3,6-dichloro-, CN 38, 1168*
chloro-, CH 14, 159*
2,5-dianilino-3,6-dichloro-, CN 38, 1169*
2,3-dichloro-, CH 14, 159*
2,5-diethoxy-, CN 38, 1160*
dihydroxy-, J 33, 1439*
2,5-dihydroxy-, P 33, 1880*
2,5-dimethoxy-, CN 38, 1160*
2,5-dimethyl-, P 30, 1012*
2,5-di-(*N*-piperidyl)-3,6-dichloro-, CN 38, 1169*
tetrachloro-, CH 14, 159*
trichloro-, CH 14, 159*

1,4-Benzosemiquinone-1-C^{13}, P 35, 2263*

3,6-Benzosemiquinone, 2,5-diamino-, CN 38, 1168*

1,2,5-Benzothiadiazepine, 7-chloro-3-ethoxy-5-methyl-8-sulfamoyl-2,3,4,5-tetrahydro-, OR 28, 744

Benzothiazole,
2-allylthio-, V 250
2-amino-, V 150
2-methyl-, V 191
2-vinylthio-, V 226

2,3-Benzothiophene, HB 422

Benzotriazole, 3-(3′-oxobutyl)-6-nitro-, 1-oxide, OR 28, 2329

exo-3,4-Benzotricyclo[4.2.1.$0^{2,5}$]nona-3,7-diene, JA 83, 1659

endo-3,4-Benzotricyclo[4.2.1.$0^{2,5}$]non-3-ene, JA 83, 1659

exo-3,4-Benzotricyclo[4.2.1.$0^{2,5}$]non-3-ene, JA 83, 1659

Benzotrifluoride, AC 33, 218
3-fluoro-, FS 54, 1448
4-fluoro-, FS 54, 1449
trichlorodifluoro-, FS 54, 1450

Benzoxale, V 147

1,4,5-Benzoxadiazepin, 7-chloro-2-keto-6,8-dimethyl-2,3-dihydro-, N 666, 129

Benzoyl chloride, dinitro-, M 2, 553

Benzoyl fluoride, JA 84, 2736
(+ antimony pentafluoride), JA 84, 2736
(+ arsenic pentafluoride), JA 84, 2736
(+ boron trifluoride), JA 84, 2736
(+ phosphorus pentafluoride), JA 84, 2736

Benzoyl peroxide
(+ diphenylamine), O 14, 441*
(+ poly[methacrylic acid methyl ester]), PS 44, 298*

Benzyl alcohol, CR 60, 382; HB 360; HB 534; M 3, 596; V 161
2,4-dimethyl-, HB 537
2,5-dimethyl-, HB 538
3,5-dimethyl-, HB 542
4-isopropyl-, HB 361
(+ hydrochloric acid), HB 362
2-methyl-, HB 535
4-methyl-, HB 536
2,4,5-trimethyl-, HB 543; J 34, 1577

Benzylamine, F[5]25, 1635
(+ plasma amine oxidase), NT 198, 1092*
N,N-di-(cyanomethyl)-, V 285
α-methyl-, V 207

Benzyl bromide,
3,5-dimethyl-, HB 669
2-methyl-, HB 666
3-methyl-, HB 667
4-methyl-, HB 668
2,4,5-trimethyl-, HB 670

Benzyl chloride, HB 391
2,4-dimethyl-, HB 677
2-methyl-, HB 676
4-methyl-, HB 675
2,3,5,6-tetramethyl-, HB 680
2,4,5-trimethyl-, HB 678
2,4,6-trimethyl-, HB 679

Benzyl cyanide, 2-(chloroacetylamino)-, V 248

Benzyl isonitrile, IC 2, 1049
(+ iron + bromide), IC 2, 1049
(+ iron + cyanide), IC 2, 1049
(+ iron + cyanide + bromide), IC 2, 1049
4-carbomethoxy-
(+ iron + cyanide + bromide), IC 2, 1049
4-chloro-
(+ iron + cyanide + bromide), IC 2, 1049
2-methyl-
(+ iron + cyanide + bromide), IC 2, 1049
3-methyl-
(+ iron + cyanide + bromide), IC 2, 1049
4-methyl-
(+ iron + cyanide + bromide), IC 2, 1049

(-)-α-*trans*-Bergamotene, H 46, 2719

Beryllium
(+ cobalt + nitrate), P 32, 554

Betanidin
hydrochloride, H 45, 644
di-*O*-acetyl-, H 46, 1746

Betulic acid methyl ester, I 39, 278

Betulin diacetate, OR 27, 4513

Betulinic acid, anhydro-, ethyl ester, CN 40, 1634

Biacetyl, P 28, 775*
(+ trimethyl phosphite), JA 85, 3256; JA 85, 3466
irradiated, NT 197, 1103*

Bicyclo[1.1.0]butane, JA 85, 4045

Bicyclo[1.1.0]butane-1-carboxylic acid ethyl ester, JA 81, 5261

Bicyclo[5.2.1]decane, 10-keto-, JA 82, 4071

Bicycloheptadiene, M 3, 530

Bicyclo[2.2.1]heptadiene, HB 444

Bicyclo[4.1.0]-2,4-heptadiene-1,6-dicarboxylic acid anhydride, H 46, 2898

Bicyclo[2.2.1]heptane-5-*exo*-carboxylic acid, 5-*endo*-methyl-, CN 40, 79

exo-Bicyclo[2.2.1]heptane-*cis*-2,3-diol, HB 552
(+ hydrochloric acid), HB 553

Bicyclo[2.2.1]heptane-2,7-diol, HB 554

Bicyclo[2.2.1]heptene, HB 308; HB 445

Bicyclo[2.2.1]hept-2-ene, 5-methyl-, HB 309; HB 446

Bicyclo[3.2.0]hept-6-ene, JA 84, 1221

Bicyclo[2.2.1]hept-2-ene-5-*exo*-carboxylic acid, 5-*endo*-methyl-, CN 40, 79

Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid dimethyl ester, HB 341

Bicyclo[2.2.0]hexa-2,5-diene, JA 85, 3298

Bicyclo[2.1.1]hexane, JA 83, 4925; JA 84, 1595
exo-5-chloro-,
endo-6-*t*-butylcarboxamide, JA 83, 2770
exo-6-*t*-butylcarboxamide, JA 83, 2770

Bicyclo[2.1.1]hexane-*endo*-6-d_1,
exo-5-chloro-, *exo*-6-*t*-butylcarboxamide, JA 83, 2770

Bicyclo[2.2.1]hexane-*exo*-6-d_1,
exo-5-chloro-, *endo*-6-*t*-butylcarboxamide, JA 83, 2770

endo-Bicyclo[2.1.1]hexan-5-ol, JA 84, 1595

exo-Bicyclo[2.1.1]hexan-5-ol, JA 84, 1595

Bicyclo[2.1.1]hexan-5-one, JA 84, 1595

Bicyclohexyl, P 37, 1168

Bicyclo[4.2.1]nonane, 9-keto-, JA 82, 4071

Bicyclo[5.1.1]nonane, 8-keto-, JA 82, 4071

Bicyclo[6.1.0]nonane, 1-keto-, JA 82, 4071

Bicyclo[4.2.0]octa-2,4-diene
(+ iron + carbon monoxide), C(1961), 596

Bicyclo[5.1.0]octa-2,5-diene, TT 19, 722

Bicyclo[4.2.0]octa-2,4-diene-1-carbonitrile,
7,8,8-trimethyl-, JA 85, 2259

Bicyclo[4.2.0]-2,4-octadieneiron tricarbonyl,
C(1961), 596

cis-Bicyclo[3.3.0]octane, JA 83, 1674

exo-Bicyclo[3.2.1]oct-2-ene, 3,4-dichloro-,
OR 28, 2208

Bicyclo[5.4.0]undecane, 1-keto-, JA 82, 4071

Bicyclo[6.3.0]undecane, 1-keto-, JA 82, 4071

Biflorin, H 46, 411
dihydro-, H 46, 411
tetrahydro-, H 46, 411

1,1'-Binaphthyl, FS 58, 1637*

Binaphthyl-bis(peroxybinaphthylene) oxide,
CN 37, 635*

Binaphthylene oxide, dehydro-oxy-, CN 37, 635*

p-Biphenosemiquinone,
3,3',5,5'-tetramethoxy-, CN 38, 1161*
3,3',5,5'-tetramethyl-, CN 38, 1161*

Biphenyl, AK 15, 535; C(1962), 53*; HB 93;
JA 80, 4552*; JA 83, 1840; V 289
(+ chromium + benzene), IN 16, 200*
2-bromo-, JA 80, 2301
2-chloro-, JA 80, 2301
4-chloro-, JA 80, 2301
4,4'-dichloro-, P 38, 483
4,4'-dicyano-, JA 85, 688*
2,5-dimethyl-, HB 314
4,4'-dimethyl-, HB 94
2-fluoro-, JA 80, 2301
4-fluoro-, JA 80, 2301
2-iodo-, JA 80, 2301
4-iodo-, JA 80, 2301
4-methyl-, J 36, 940*

Biphenylyl ether, P 34, 1840*

2,2'-Bipyridine
(+ potassium), PC 67, 2867*

2,2'-Bipyridyl
(+ sodium), P 37, 684*

4,4'-Bipyridyl, JA 83, 3624*; P 37, 1581*; P 39, 59*
potassium salt, JA 83, 3624*

Bis(acetylacetone)-ethylenediimine, JA 83, 2100

Bis(acetylacetone)-ethylenediimine-d_1, JA 83, 2102

Bis(acetylacetone)-propylenediimine, JA 83, 2100

Bis(acetylacetone)-tetramethylenediimine, JA 83, 2102

Bis(acetylacetone)-trimethylenediimine, JA 83, 2102

Bis(2-chloroethyl) ether, J 33, 1608

Bis(chloromethyl) ether, J 33, 1607

Bis(2-chloro-1,1,2-trifluoroethyl) sulfide, JA 85, 750

Bis(cyclohexylidene) peroxide, HB 652

Bis(dibenzo[a,i]fluorenylidene), N 648, 64*

Bis(2,2-dichlorocyclopropyl) ether, CN 41, 1858

Bis(2,2-difluoroethyl) sulfide, JA 85, 750

Bis(2,4-dimethylbenzoic) anhydride, HB 511

Bis(2,5-dimethylbenzoic) anhydride, HB 512

Bis(3,5-dimethylbenzoic) anhydride, HB 513

2,2'-Bis(1,3-dioxolane), OR 27, 3188

1,3-Bis(diphenylene)-2-phenylallyl, CH 14, 159*; P 39, 2696*

N,N'-Bis(1-imidazolidinyl-2-one)
N-phenylphosphoric triamide, F[5]28, 2116
phosphoric diamide chloride, F[5]28, 2115

Bis(manganese pentacarbonyl),
methyltrimethylene-, JA 85, 1924
trimethylene-, JA 85, 1924

Bis(2-methylbenzoic) anhydride, HB 510

Bis(4-nitrophenyl) ether, P 39, 781*

Bis(4-nitrophenyl) sulfide, P 39, 782*

14,15-Bisnor-labdane,
(13S)-8α,13; 13,20-bis(oxido)-, H 45, 407
(13R)-8β,13; 13,20-bis(oxido)-, H 45, 408
(13R)-8β,13; 13,20-bis(oxido)-12-keto-, H 45, 410
(13R)-8α,13-oxido-20-hydroxy-, H 45, 417
(13S)-8α,13-oxido-20-hydroxy-, H 45, 416
(13S)-8α,13-oxido-20-keto-, H 45, 418
(13R)-8β,13-oxido-20-hydroxy-, H 45, 417

14,15-Bisnor-12-labdene,
8β,13-oxido-20-acetoxy-, H 45, 410
8β,13-oxido-20-hydroxy-, H 45, 410

Bis(1-oxyl-2,6-di-*t*-butyl-4-phenyl) disulfide, N 645, 86*

Bis(1-oxyl-2,6-di-*t*-butyl-4-phenyl) sulfide, N 645, 86*

Bis(pentafluorosulfur) peroxide, JA 85, 911

Bis(pentafluorosulfur) sulfate, IC 1, 217

Bis(triphenylphosphine nitride) bromide, ZC 311, 295

2,2'-Bithienyl, AK 16, 522
5-(3-buten-1-ynyl)-, AU 16, 476

4,4'-Bitolyl, J 36, 939*

Bixin, methyl-, G 72, 910

Boehmite, G 73, 801; J 33, 1463; NT 183, 944

Bone, NT 199, 1304*

Borane,
benzyl-, JA 80, 4525
dichloroperfluorovinyl-, SA 17, 973
difluoroperfluorovinyl-, SA 17, 973
diisobutyl-*t*-butyl-, C(1960), 1041
isobutyldiisobutoxy-, C(1961), 346
isobutyldiisobutylperoxy-, C(1961), 346
triethyl-, IC 2, 1149; J 35, 1318; ZA 170, 184
(+ phosphine, methylbis[dimethylamino]-), IC 2, 1149
(+ triethylamine), J 35, 1318
(+ trimethylamine), IC 2, 1149; J 35, 1318
(+ trimethylamine + trimethylphosphine), IC 2, 1149
trifluoromethyltrifluoro-, CN 39, 259
triisobutyl-, C(1960), 1041
trimethyl-, P 39, 3047
trimethyl-d_9-, P 39, 3047
tris(perfluorovinyl)-, SA 17, 973

Borate
(+ furan, *cis*-3,4-dihydroxytetrahydro-), CN 41, 2406
(+ D-glucose 5,6-carbonate), CN 41, 2407

Borate glass, irradiated, P 39, 2864*

Borax, P 35, 437; SD 23, 744

10,9-Borazarophenanthrene, 10,10-dimethyl-9,10-dihydro-, JA 83, 189

Borazole, J 33, 1589; P 32, 947
hexaethyl-, P 34, 1046
hexamethyl-, P 34, 1045
B-trichloro-, P 34, 1044
B-trichloro-*N*-triethyl-, P 34, 1044
B-trichloro-*N*-trimethyl-, P 34, 1044
B-triethyl-*N*-trimethyl-, P 34, 1045
B-triethyl-*N*-triphenyl-, P 34, 1047
N-trimethyl-, P 34, 1044
B-trimethyl-*N*-triethyl-, P 34, 1045
B-trimethyl-*N*-triphenyl-, P 34, 1046

Boric acid, P 32, 960
difluoro-, enol ester
(+ 3,5-heptanedione, 4-methyl-), N 668, 4
monofluoro-, enol ester anhydride
(+ propionic acid, 2-propionyl-), N 668, 4

Boric acid glass, P 32, 960

Boric oxide, P 29, 986

Boric oxide glass, GL 1, 157; P 32, 961

Borine,
dipropylbromo-, C(1963), 2187
dipropylchloro-, C(1963), 2187
dipropyliodo-, C(1963), 2187
tripropyl-, C(1963), 2187

Borneol, HB 339; HB 555; JA 85, 3213
acetate, JA 85, 3213

Bornyl acetate, HB 340; HB 590; JA 85, 3215

Bornylcarboxylic acid, JA 85, 3217

Bornyl chloride, JA 85, 3215

Boron, SD 24, 941

Boron carbide, P 31, 248

Boronic anhydride, *t*-butyl-, C(1960), 1041

Boron nitride, P 32, 289

Boron oxide-lead oxide glass, GL 4, 50

Boron oxide-lead oxide-iron oxide glass, GL 4, 58

Boron oxide-lithium oxide glass, GL 4, 41

Boron oxide-rubidium oxide glass, GL 4, 45

Boron tribromide
(+ boron trichloride + boron trifluoride), P 32, 1893
(+ boron trifluoride), P 32, 1893
(+ boron tribromide + boron trifluoride), P 32, 1893
(+ boron trifluoride), P 32, 1893

Boron trifluoride
(+ acetyl fluoride), JA 84, 2736
(+ ammonia), SA 10, 156
(+ benzoyl fluoride), JA 84, 2736
(+ boron tribromide), P 32, 1893
(+ boron tribromide + boron trichloride), P 32, 1893
(+ boron trichloride), P 32, 1893
(+ 1-butanol), IN 8, 470
(+ 2-butanol), IN 8, 471
(+ ε-caprolactam), R 80, 1330
(+ ε-caprolactam, *N*-methyl-), R 80, 1330
(+ 1-decanol), IN 8, 473
(+ diacetic anhydride), N 668, 4
(+ ethanol), IN 8, 470
(+ 1-heptanol), IN 8, 472
(+ 1-hexanol), IN 8, 472
(+ 1-hexanol, 2-ethyl-), IN 8, 472
(+ isobutanol), IN 8, 471
(+ isopentanol), IN 8, 471
(+ isopropanol), IN 8, 470
(+ 1-nonanol), IN 8, 473
(+ 1-octanol), IN 8, 472
(+ 1-pentanol), IN 8, 471
(+ 1-propanol), IN 8, 470
(+ propionyl fluoride), JA 84, 2736
(+ 6-tetralol + acetic acid thallium salt), N 662, 57*

Boron triiodide, JA 81, 3181

Borosilicate glass, irradiated, P 39, 2865*

Boro-ultramarine, CN 38, 310*

α-Boswellic acid, 11-keto-, methyl ester acetate, OR 27, 4514

Bovine serum albumin, B 237, 1810; PS 38, 79
irradiated, NT 190, 999*

Bromanil
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*
(+ *p*-phenylenediamine), JA 83, 4507*
(+ *p*-phenylenediamine, tetramethyl-), J 33, 1624*

Bromide
(+ iron + benzyl isonitrile), IC 2, 1049
(+ iron + benzyl isonitrile + cyanide), IC 2, 1049
(+ iron + 4-carbomethoxybenzyl isonitrile + cyanide), IC 2, 1049
(+ iron + 4-chlorobenzyl isonitrile + cyanide), IC 2, 1049
(+ iron + 2-methylbenzyl isonitrile + cyanide), IC 2, 1049
(+ iron + 3-methylbenzyl isonitrile + cyanide), IC 2, 1049
(+ iron + 4-methylbenzyl isonitrile + cyanide), IC 2, 1049

Bromine
(+ 3-cholestanone, 2α-chloro-), OR 28, 889

Brucite, J 36, 474

Brushite, FS 56, 640

Bulbocapnine, V 333

Buphanamine, *O*-acetyldihydro-, H 46, 811

1,2-Butadiene, JA 85, 1303
1-chloro-, JA 84, 1580; JA 84, 1583

1,3-Butadiene, C(1961), 596; JA 85, 1303
(+ benzenethiol), JA 84, 3898; OR 28, 2358
(+ iron + carbon monoxide), C(1961), 596
1-chloro-, CR 63, 100

2-chloro-
(+ benzenethiol), JA 84, 3898
2,3-dimethyl-, JA 85, 1304
(+ benzenethiol), OR 28, 2356
1,4-diphenyl-, J 33, 960*
2-methyl-
(+ benzenethiol), JA 84, 3898
perfluoro-, JA 85, 1304

Butadiene-isoprene copolymer, AC 34, 1135

Butadiene-styrene copolymer, AA 29, 506; PS 38, 86; SA 14, 36

Butane, HB 433; P 39, 2167*
irradiated, P 28, 1173*
1-bromo-, HB 381
1-chloro-, HB 385
2-cyclohexyl-, HB 304
2-cyclopentyl-, HB 300
1,2-dibromo-, V 74
DL-2,3-dibromo-, JA 84, 748
meso-2,3-dibromo-, CN 39, 2266; JA 84, 745
2,2-dichloro-3,3-dimethyl-, HB 387
2,2-dimethyl-, CA 44, 517
2,3-dimethyl-, CA 44, 517; HB 3; HB 435
cis-2,3-epoxy-, HB 644
trans-2,3-epoxy-, HB 645
1-iodo-, V 81
2-iodo-, V 82
1-iodo-4-methyl-, irradiated, FS 58, 1484*
2-iodo-1-methyl-, irradiated, FS 58, 1484*
2-nitro-, V 84
1,1,1,2,2,3,3,4-octafluoro-, M 7, 394
1,1,2,2,3,3,4,4-octafluoro-, M 7, 394
1,2,2,3,3,4,4,4-octafluoro-, M 7, 332

1,3-Butanediol, NN[13]8, 435; V 86

1,4-Butanediol, HB 530; TT 18, 808

2,3-Butanediol, V 87
2-methoxime, V 117
2-oxime, V 72

1-Butanethiol, HB 408
1,1-dihydroheptafluoro-, OR 26, 357

Butane-1,2,4-tricarboxylic acid, HB 474

1-Butanol, AC 31, 59; FS 54, 1312*; HB 130; HB 518
(+ boron trifluoride), IN 8, 470
(+ hydrochloric acid), HB 131; HB 519
(+ titanium + hydrogen peroxide), C(1963), 3121*
irradiated, P 30, 697*
1,1-dihydroheptafluoro-, OR 26, 357
3-methoxy-, V 120

2-Butanol, AC 31, 59; FS 54, 1312*; HB 133; HB 520
(+ boron trifluoride), IN 8, 471
(+ hydrochloric acid), HB 521
irradiated, P 30, 697*
erythro-3-bromo-, 3,5-dinitrobenzoate, CN 39, 2266
erythro-3-phenyl-, JA 81, 2759
threo-3-phenyl-, JA 81, 2759

t-Butanol, AC 31, 59; FS 54, 1309*; HB 134
irradiated, P 30, 697*
potassium salt
(+ ozone), JA 84, 3099*
(+ toluene, 4-nitro-), JA 84, 4153*

Butanone
2,4-dinitrophenylhydrazone, JA 84, 754
phenylhydrazone, JA 85, 3626

2-Butanone, SA 19, 1696
oxime, PC 65, 493
3-bromo-, AK 21, 507
1,3-dibromo-, AK 21, 507
3-methyl-, SA 19, 1696
1,1,3,3-tetrabromo-, AK 21, 507
1,1,3-tribromo-, AK 21, 507
1,3,3-tribromo-, AK 21, 507

3-Butanone, 1,2-epoxy-, P 32, 1383

Butatriene, tetraphenyl-, JA 84, 3281

2-Butenal, HB 618

1-Butene, JA 83, 232; P 28, 359; ZA 170, 184
1,1-dichloro-2-methyl-3-(2-ethyl-3,3-dichloroallyloxy)-, H 46, 2093
2,3-dimethyl-, HB 34
3,3-dimethyl-, HB 35; JA 85, 1301; P 28, 358
3,4-epoxy-, HB 648
2-ethyl-, HB 36; JA 85, 1301
3-methyl-, PC 65, 1385; RL 263, 146
2-methyl-4-phenyl-, ZA 170, 203
1,1,3,3-tetraphenyl-
(+ sodium), C(1963), 3957*

2-Butene,
2-chloro-1,1,1,3,4,4,4-heptafluoro-, M 7, 388
trans-1,4-diacetoxy-, TT 18, 806
cis-1,4-dibenzoyloxy-, TT 18, 806
2,3-dimethyl-, HB 37
3,3-dimethyl-, amide, F[5]30, 1052
2-methyl-, JA 85, 1301
irradiated, P 31, 351*
2-methyl-4-phenyl-, ZA 170, 203

cis-2-Butene
(+ platinum + chloride), C(1960), 2521
(+ silver), C(1960), 2521

trans-2-Butene
(+ hydrogen bromide), JA 84, 918*

1-Butene-3,4-diol, HB 532
(+ formic acid), HB 533

2-Butenoic acid
γ-lactone, V 51
3-crotyloxy-, crotyl ester, OR 28, 3523

2-Buten-1-ol, 3-methyl-, JA 82, 5750

3-Buten-2-one,
N-methyl-, JA 85, 2699
trans-4-phenyl-, V 251

3-Butenyl, P 39, 2163*

1-Buten-3-yne,
1-methoxy-, JA 84, 2009; V 100
2-methyl-, V 99

Butoxy, P 32, 1109*

s-Butoxy, P 32, 1109*

t-Butoxy, P 32, 1109*

s-Butyl, P 39, 2167*

t-Butyl, P 39, 2170*

Butylamine, V 89

s-Butylamine, V 88

t-Butylamine, V 90
N,N-di-(2-hydroxyethyl)-, V 221

t-Butyl bromide, irradiated, FS 58, 1482*

s-Butyl *t*-butyl ether, HB 153

Butyl carbonate, V 243

Butyl chloride, irradiated, FS 58, 1483*

s-Butyl chloride, irradiated, FS 58, 1483*

t-Butyl chloride, irradiated, FS 58, 1482*

1,2-Butylene oxide, HB 172

2,3-Butylene oxide, HB 173
3-acetyl-, AC 31, 74; SA 14, 28

t-Butyl fluoride, JA 85, 1331

s-Butyl hydroperoxide, irradiated, P 32, 1110*

t-Butyl hydroperoxide, HB 641
(+ hydrazyl, diphenylpicryl-), P 36, 1678*

Butyl iodide, irradiated, JA 85, 3732*

t-Butyl iodide, irradiated, FS 58, 1482*

t-Butyl isopropyl ether, V 183

t-Butyl (1-oxyl-2,6-di-*t*-butyl-4-phenyl) selenide, N 657, 8*

p-*t*-Butylphenyldiphenylmethyl, CN 37, 1407

Butyl rubber, HB 700

1-Butyne, JA 85, 1304

2-Butyne, HB 442; JA 85, 1304
(+ hydrogen bromide), JA 84, 917*
(+ pentaborane-9), JA 84, 2830
1-chloro-, AK 16, 473

2-Butyn-1-ol, AK 16, 472

Butyraldehyde, HB 145; V 78
4-cyano-2,2-dimethyl-, V 178
2,2-dimethyl-, HB 331
2-ethyl-, 2,4-dinitrophenylhydrazone, OR 24, 95

Butyramide,
N-(*t*-amyl)-, irradiated, JA 83, 576*
N-ethyl-, irradiated, JA 83, 575*
N-propyl-, irradiated, JA 83, 576*

Butyric acid, HB 117
propyl ester, HB 148
3-acetoxy-, methyl ester, V 182
2-bromo-, V 66
ethyl ester, V 137

Butyrolactone, V 63
3,3,4,4-tetramethyl-, V 214

Butyronitrile, P 34, 1095
4-bromo-, V 58

Butyryl fluoride, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330

C

Cadmium
(+ alanine, glycyl-), JA 84, 4653
(+ proline, glycyl-), JA 84, 4654

Cadmium sulfide, SD 8, 493*; SD 8, 495*

Caffeine, AC 35, 1683; V 204

Calarene, F[5]30, 518

Calciferol, V 364

1-Butene-3,4-diol, HB 532
(+ formic acid), HB 533

2-Butenoic acid
γ-lactone, V 51
3-crotyloxy-, crotyl ester, OR 28, 3523

2-Buten-1-ol, 3-methyl-, JA 82, 5750

3-Buten-2-one,
N-methyl-, JA 85, 2699
trans-4-phenyl-, V 251

3-Butenyl, P 39, 2163*

1-Buten-3-yne,
1-methoxy-, JA 84, 2009; V 100
2-methyl-, V 99

Butoxy, P 32, 1109*

s-Butoxy, P 32, 1109*

t-Butoxy, P 32, 1109*

s-Butyl, P 39, 2167*

t-Butyl, P 39, 2170*

Butylamine, V 89

s-Butylamine, V 88

t-Butylamine, V 90
N,N-di-(2-hydroxyethyl)-, V 221

t-Butyl bromide, irradiated, FS 58, 1482*

s-Butyl *t*-butyl ether, HB 153

Butyl carbonate, V 243

Butyl chloride, irradiated, FS 58, 1483*

s-Butyl chloride, irradiated, FS 58, 1483*

t-Butyl chloride, irradiated, FS 58, 1482*

1,2-Butylene oxide, HB 172

2,3-Butylene oxide, HB 173
3-acetyl-, AC 31, 74; SA 14, 28

t-Butyl fluoride, JA 85, 1331

s-Butyl hydroperoxide, irradiated, P 32, 1110*

t-Butyl hydroperoxide, HB 641
(+ hydrazyl, diphenylpicryl-), P 36, 1678*

Butyl iodide, irradiated, JA 85, 3732*

t-Butyl iodide, irradiated, FS 58, 1482*

t-Butyl isopropyl ether, V 183

t-Butyl (1-oxyl-2,6-di-*t*-butyl-4-phenyl) selenide, N 657, 8*

p-*t*-Butylphenyldiphenylmethyl, CN 37, 1407

Butyl rubber, HB 700

1-Butyne, JA 85, 1304

2-Butyne, HB 442; JA 85, 1304
(+ hydrogen bromide), JA 84, 917*
(+ pentaborane-9), JA 84, 2830
1-chloro-, AK 16, 473

2-Butyn-1-ol, AK 16, 472

Butyraldehyde, HB 145; V 78
4-cyano-2,2-dimethyl-, V 178
2,2-dimethyl-, HB 331
2-ethyl-, 2,4-dinitrophenylhydrazone, OR 24, 95

Butyramide,
N-(*t*-amyl)-, irradiated, JA 83, 576*
N-ethyl-, irradiated, JA 83, 575*
N-propyl-, irradiated, JA 83, 576*

Butyric acid, HB 117
propyl ester, HB 148
3-acetoxy-, methyl ester, V 182
2-bromo-, V 66
ethyl ester, V 137

Butyrolactone, V 63
3,3,4,4-tetramethyl-, V 214

Butyronitrile, P 34, 1095
4-bromo-, V 58

Butyryl fluoride, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330

C

Cadmium
(+ alanine, glycyl-), JA 84, 4653
(+ proline, glycyl-), JA 84, 4654

Cadmium sulfide, SD 8, 493*; SD 8, 495*

Caffeine, AC 35, 1683; V 204

Calarene, F[5]30, 518

Calciferol, V 364

Calcite, P 38, 1910*

Calcite-iron, P 38, 1910*

Calcium
(+ ethylenediaminetetraacetic acid), JA 85, 2932

Calcium carbonate, PC 66, 676*
(+ manganese sulfate), PC 66, 677*

Calcium fluorapatite-manganese, PC 66, 2716*

Calcium fluoride, PC 66, 676*
(+ manganese sulfate), PC 66, 677*

Calcium fluoride-manganese, PC 66, 2716*

Calcium fluoride-samarium, irradiated, NT 193, 158*

Calcium hydrogen phosphate, SA 16, 855

Calcium monohydrogen phosphate dihydrate,
FS 56, 640

Calcium oxide, irradiated, P 39, 850*

Calcium oxide-manganese, PC 66, 2716*

Calcium pyrophosphate, PC 66, 676*
(+ manganese sulfate), PC 66, 677*

α-Calcium pyrophosphate-manganese, PC 66, 2716*

β-Calcium pyrophosphate-manganese, PC 66, 2716*

Calcium sulfate dihydrate, G 73, 801; ZC 312, 48

Calcium tungstate, P 34, 248*

Calcium tungstate-cerium, SD 24, 1509*

Calliphora puparia, AB 86, 226*

Calliphora puparia cuticle, AB 86, 227*

Calliphora vomitoria, NT 184, 1403*

2-*endo*, 3-*endo*-Camphane-2,3-diol, CN 39, 791

2-*endo*, 3-*exo*-Camphane-2,3-diol, CN 39, 791

2-*exo*, 3-*endo*-Camphane-2,3-diol, CN 39, 791

2-*exo*, 3-*exo*-Camphane-2,3-diol, CN 39, 791

D-Camphene, HB 305

Camphor,
α-bromo-, CR 63, 96; JA 83, 4096

D-Camphor, HB 345
α-bromo-, JA 80, 2534
α-chloro-, JA 80, 2534
α′-chloro-, JA 80, 2534
α,α′-dibromo-, JA 80, 2534

Caproamide, irradiated, P 29, 249*

Caproic acid, ε-amino-, irradiated, ZP 223, 63*

Caprolactam, irradiated, P 29, 249*

Caprolactam-d, irradiated, P 29, 249*

ε-Caprolactam, R 80, 1212; R 80, 1330
(+ boron trifluoride), R 80, 1330
irradiated, ZP 223, 60*
dimer, irradiated, ZP 223, 61*
hydrochloride, R 80, 1212
tetramer, irradiated, ZP 223, 63*
trimer, irradiated, ZP 223, 61*
α-chloro-, R 80, 1212
α,α-dichloro-, R 80, 1212
N-methyl-, R 80, 1330
(+ boron trifluoride), R 80, 1330

ε-Caprolactone, HB 611

Caprylic acid potassium salt, FS 59, 1261

Carbamic acid, *N*-methyl-, ethyl ester, V 85

Carbazole
(+ antimony pentachloride), J 36, 308*

Carbazyl, P 34, 1704*
N-picryl-9-amino-, PC 65, 710*

Carbodiimide, *N*,*N*′-dicyclohexyl-, P 29, 1023

Carbon black, PY 30, 58*

Carbon disulfide
(+ sulfur), PC 63, 2087*

Carbon monoxide
(+ iron + bicyclo[4.2.0]-2,4-octadiene),
C(1961), 596
(+ iron + 1,3-butadiene), C(1961), 596
(+ iron + 1,3-cycloheptadiene), C(1961), 596
(+ iron + cycloheptatriene), C(1961), 596
(+ iron + 1,3-cyclohexadiene), C(1961), 596
(+ iron + cyclooctatetraene), C(1962), 851
(+ Teflon), irradiated, P 30, 402*

Carbon tetrachloride, P 33, 1888
irradiated, P 30, 697*

Carbon tetrafluoride, JA 82, 1282
(+ phosphorous trifluoride), P 33, 636
irradiated, PC 66, 2673*

Carborane, IC 2, 1318
decachloro-, IC 2, 1095; IC 2, 1318
octachloro-, IC 2, 1095
undecachloro-, IC 2, 1095

Carborane-3, JA 84, 3839

sym-Carborane-4, JA 85, 3169

unsym-Carborane-4, JA 85, 3170

Carboxyhydroxymethyl, P 35, 762*

3-Carene, V 273

Carimbose, BE 96, 2869

β-Carotene, C(1960), 2876
irradiated, PS 47, 503*

trans-β-Carotene, CH 15, 221; G 72, 910

γ-Carotene, H 44, 988

Carvone, V 271

Casimiroin, V 291

Catalysts, FS 55, 1432*

Catalytic cycle stock, P 34, 1076*

Catechol, P 37, 2620
(+ copper sulfate), NT 183, 322*
(+ laccase), NT 183, 322*

Ceanothenic acid dimethyl ester, CN 40, 1634

Ceanothic acid, decarboxyanhydro-, methyl ester, CN 40, 1634

Cellobiose, OR 28, 564

Cellulose,
irradiated, CP 60, 1349*; FS 54, 1297*; P 30, 697* PS 50, 350*; PS A1, 1165*
triacetate, irradiated, PS A1, 1165*
carboxymethyl-, sodium salt, irradiated, PS 50, 350*
diacetyl-, PS 50, 353*
methyl-, irradiated, PS A1, 1165*

Cephalosporidine, BJ 86, 278

Cerium, RL A254, 273*; SD 24 1509

Cerium glass, irradiated, P 35, 848*

Ceroptene, SC 13, 1390
dihydro-, SC 13, 1390

Ceruloplasmin, AB 100, 108*; B 238, 2339*; SC 17, S266*
(+ adrenaline), AB 100, 108*
(+ dopamine), SC 17, S266*

Cesium
(+ malic acid), PC 66, 1703
(+ methylamine), P 38, 2033*
(+ quinodimethane, tetracyano-), P 36, 2971*

Cesium chloride, IS 50, 258

Chalcose, JA 84, 1066

Channel black, PY 30, 58*

Chimney soot, SC 17, 1303*

Chloral hydrate, CN 41, 1025; FS 55, 1072

Chloramphenicol, B 238, 2500

L-(+)-*erythro*-Chloramphenicol, B 238, 2501

Chloranil, JA 84, 3804*
(+ Chrysoiden Yellow), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzoselenazolyl}]-pentamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-heptamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-9-methyltrimethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-pentamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethylbenzoxazolyl}]-heptamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{1-ethyl-3,3-dimethylindolinyl}]-heptamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{1-ethyl-3,3-dimethylindolinyl}]-trimethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethyl-4,5-diphenylthiazolyl}]-pentamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-ethyl-2-naphthothiazolyl}]-11-ethyltrimethine-, chloride), PC 67, 2637*
(+ cyanine, [4-bis{1-ethylquinolyl}]-11-bromopentamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{1-ethylquinolyl}]-monomethine-, iodide), PC 67, 2637*
(+ cyanine, [4-bis{1-ethylquinolyl}]-monomethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2637*

(+ cyanine, [2-bis{3-ethylthiazolinyl}]-heptamethine-, iodide), PC 67, 2637*
(+ cyanine, [2-bis{3-methyl-2-naphthothiazolyl}]-11-phenyltrimethine-, *p*-toluenesulfonate), PC 67, 2637*
(+ cyanine, [2-{3-ethylbenzothiazolyl}]-[2-{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2637*
(+ cyanine, [2-{3-ethylbenzothiazolyl}]-[4-{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2637*
(+ durene, diamino-), JA 83, 4507*
(+ hexamethine, [2-{3-ethylbenzothiazolyl}]-[1-piperidyl]-, iodide), PC 67, 2637*
(+ hexamethine, [2-{3-ethylbenzothiazolylidene}]-[triphenylphosphonium-2-cyclopentadienylidene]-, iodide), PC 67, 2637*
(+ indole), PC 67, 2638*
(+ Malachite Green), PC 67, 2637*
(+ merocyanine, [2-{3-ethylbenzothiazolylidene}]-[4-{1-phenyl-2-methyl-5-pyrazolone}]-hexamethine-), PC 67, 2637*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2637*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2637*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2637*
(+ phenosafranin), PC 67, 2637*
(+ *p*-phenylenediamine), JA 83, 4506*; NT 185, 917*; P 38, 1903*
(+ *p*-phenylenediamine, *N,N,N',N'*-tetramethyl-), JA 83, 4507*; JA 84, 1340*; JA 84, 3804*
(+ Pontamine Pure Yellow), PC 67, 2637*
(+ 3-pyrazolidone, 1-phenyl-), PC 67, 2638*
(+ Pyronin Y), PC 67, 2637*
(+ Rhodamine B), PC 67, 2637*
(+ Rhodamine 5 G), PC 67, 2637*
(+ Rhodamine 6 G), PC 67, 2637*
(+ Rose Bengal), PC 67, 2637*
(+ Violamine R), PC 67, 2637*
irradiated, SC 16, 1043*

o-Chloranil
(+ phthalocyanine), P 32, 1022*

Chloride
(+ cobalt + ammonia), P 29, 210
(+ copper), J 36, 1639*
(+ platinum + *cis*-2-butene), C(1960), 2521
(+ platinum + ethylene), C(1960), 2521; C(1963), 4911

Chlorine dioxide, C(1962), 4786*

Chlorine monoxide, C(1962), 4786*

Chlorine trifluoride, IN 9, 98; P 39, 1616

Chlorine trioxide, C(1962), 4786*

Chlorodilactone, JA 81, 5203

Chloroform, CA 44, 476; HB 265
irradiated, P 30, 697*

Chloroform-t, P 35, 761*

Chlorophyll, F[5]26, 1712*

Chlorophyll a, JA 85, 3813; NT 199, 242*; PC 64, 555*
irradiated, PC 64, 555*

Chlorophyll b, JA 85, 3814

Chloroplast, NT 195, 964*; S 138, 868*

Chloroprene
(+ benzenethiol), JA 84, 3898

Cholanic acid, 3α-acetoxy-12-keto-, methyl ester, V 362

Cholanthrene, methyl-, HB 112

Cholate, deoxy-
(+ copper), B 237, 2338*

3,6-Cholestanedione bisethyleneketal, JA 82, 1998

2-Cholestanone,
3α-acetoxy-, JA 83, 4625
3β-acetoxy-, JA 83, 4625

3-Cholestanone
ethylenethioketal, JA 82, 1998
2α-acetoxy-, JA 83, 4624
2β-acetoxy-, JA 83, 4625
4α-acetoxy-, JA 83, 4625
4β-acetoxy-, JA 83, 4625
2α-bromo-, JA 85, 2797
2β-bromo-, JA 85, 2797
2α-bromo-2β-chloro-, OR 28, 889
2β-bromo-2α-chloro-, OR 28, 889
2α-chloro-
(+ bromine), OR 28, 889
2,2-dibromo-, OR 28, 889
2α,4α-dibromo-, JA 85, 2797
2,2-dichloro-, OR 28, 889

5α-Cholestan-3-one, 2β,19-epoxy-, JA 84, 4977

6-Cholestanone, 3β-acetoxy-, ethylenethioketal, JA 82, 1998

7-Cholestanone, 6β-bromo-3β-acetoxy-, TT 18, 793

8(14)-Cholestene-3β,7α-diol, JA 82, 1696

Cholestenone, JA 84, 205

Cholesterol, JA 84, 205; V 363; ZA 164, 132

Cholesteryl acetate, ZA 164, 132

Choline
chloride, JA 83, 2485
irradiated, JA 83, 2486*

Choline-d_2
chloride, JA 83, 2485
irradiated, JA 83, 2486*

Choline-d_9
chloride, JA 83, 2485
irradiated, JA 83, 2486*

Chondrocurine, *O,O'*-dimethyl-, C(1961), 1899

Chromia, PC 66, 279*

Chromia-alumina, PC 66, 277*

Chromia-α-alumina, Z 21, 316

Chromic acid, J 35, 2054*

Chromium, C(1963), 4492*; P 38, 1982*; P 38, 2917*; PC 67, 1300*; PC 67, 1440*; PY 31, 1567*; PY 32, 218S*; PY 32, 2049*; S 135, 900*
(+ benzene), O 8, 71*
(+ benzene-d_1), IN 16, 200*
(+ benzene + biphenyl), IN 16, 200*
(+ cumene), O 8, 71*
(+ cyanide + nitric oxide), P 34, 105*
(+ cyanide + nitrite), P 38, 2580*; P 38, 2581*
(+ fluoride), P 35, 1350*
(+ methane, triphenyl-), TT 19, 1134*
dicumyl-, O 8, 71*
diphenyl-, O 8, 71*
iodide, CH 14, 161*

Chromium(III) chloride, Z 21, 313

Chromium diboride, P 38, 870

Chromium-gallium, S 135, 903*

Chromium glass, O 14, 371*

Chromium hexacarbonyl
(+ phosphine, tris[dimethylamino]-), IC 2, 941

Chromium(III) oxide, PS 55, 582*

Chromium tricarbonyl
(+ cycloheptatriene), C(1961), 2039

Chromium trioxide
(+ acetic acid), IN 25, 941*

Chromyl chloride
(+ pyridinium chloride), IN 25, 936*
(+ quinolinium chloride), IN 25, 938*
(+ tetramethylammonium chloride), IN 25, 938*

cis-Chrysanthemumic acid, CN 40, 876

trans-Chrysanthemumic acid, CN 40, 876

Chrysanthemum monocarboxylic acid ethyl ester, CN 40, 878

Chrysene, P 39, 2386
sodium salt, C(1963), 5561*

Chrysoberyl, P 28, 369

Chrysoiden Yellow
(+ chloranil), PC 67, 2637*

Chymotrypsin, B 237, 1815; PS 38, 80

Cinnamaldehyde, HB 363

Cinnamic acid
ethyl ester, P 38, 1218
α-cyano-, ethyl ester, V 290
α-cyano-4-dimethylamino-, nitrile, Z 33, 77
α,β-dicyano-4-dimethylamino-, nitrile, Z 33, 77
cis-4-dimethylamino-, nitrile, Z 33, 66
hydro-, HB 351
4-hydroxy-3,5-di-*t*-butyl-, isopropyl ester, N 645, 54*

trans-Cinnamic acid, V 230

Citric acid, JA 82, 2706
(+ potassium dichromate), IN 25, 942*
sym-dimethyl ester, JA 82, 2706
uns-monomethyl ester, JA 82, 2707
trimethyl ester, JA 82, 2706

Citrinin, J 33, 1310

DL-Citrulline, irradiated, PC 62, 797*

Cladinose, diacetyl-, TT 18, 1267

Cleomin, SC 16, 593

Clerodin, C(1962), 852

Clostridium pasteurianum, NT 196, 434*
(+ pyruvate), NT 196, 434*

Coal tar, SC 17, 1300
irradiated, SC 17, 1300*

Cobalt, PY 31, 207S; SD 24, 731; SD 24, 1203
(+ acetone, benzoyl-), JA 84, 2307
(+ acetone, trifluoroacetyl-), JA 85, 502
(+ alanine), JA 85, 3739
(+ α-alanine), FD 34, 94
(+ aluminum + perchlorate), P 32, 554
(+ ammonia), JA 82, 1074; M 2, 542
(+ ammonia + chloride), P 29, 210
(+ ammonia + fluoborate), P 29, 211
(+ ammonia + hydrogen peroxide), PC 63, 1893*
(+ aspartic acid), FD 34, 94
(+ beryllium + nitrate), P 32, 554
(+ cyanide), AU 16, 558*
(+ cyanide + oxygen), AU 16, 561*
(+ ethylenediamine), FD 34, 92
(+ fluoride), P 32, 554
(+ gallium + perchlorate), P 32, 554
(+ glycine), FD 34, 94; JA 85, 3739
(+ glycine, *N,N'*-dimethyl-), FD 34, 94
(+ histamine), JA 85, 3739
(+ histidine), FD 34, 94; JA 85, 3739
(+ histidine methyl ester), JA 85, 3739
(+ histidine, *N*-acetyl-), JA 85, 3739
(+ D-histidine), JA 85, 3740
(+ L-histidine), JA 85, 3739
(+ L-histidine, 1-methyl-), JA 85, 3739
(+ L-histidine, 3-methyl-), JA 85, 3739
(+ imidazole), JA 85, 3739
(+ magnesium + perchlorate), P 32, 555
(+ 1,10-phenanthroline), FD 34, 89
(+ γ-picoline + acetylacetone), P 39, 1212
(+ 1,2-propylenediaminetetraacetic acid tetrasodium salt), FD 34, 94
(+ 1,2-propylenediaminetetraacetic acid trisodium salt), FD 34, 94
π-cyclopentadienyl-
(+ cycloöctatetraene), C(1962), 4823
π-cyclopentadienylcyclopentadiene-, C(1959), 3758
π-cyclopentadienylcyclopentadiene-d_1-, C(1959), 3758

Cobalt chloride dihydrate, CP 59, 1043

Cobalt tricarbonyl,
π-allyl-, JA 83, 1604
1,1-dimethyl-π-allyl-, IC 2, 603
anti -1,3-dimethyl-π-allyl-, IC 2, 603
syn -1,3-dimethyl-π-allyl-, IC 2, 603
anti -1-ethyl-π-allyl-, IC 2, 603
syn -1-ethyl-π-allyl-, IC 2, 603
1-methyl-π-allyl-, JA 83, 1605
anti-1-methyl-π-allyl-, IC 2, 602
syn-1-methyl-π-allyl-, IC 2, 602
1,1,2-trimethyl-π-allyl-, IC 2, 603

Cocoa butter, CN 37, 780

Coconut oil, CN 37, 776

Cocoon, J 33, 1615

Codeinone, F[5]30, 591
14-bromo-, F[5]30, 2190

Coenzyme B_{12}, AB 100, 355*

Coenzyme Q_{10}, CA 45, 5; JA 82, 5750

Coke, CP 57, 910*

Colchicine, CC 28, 3406
hexahydro-, CC 28, 3406
hexahydrohydroxy-, CC 28, 3407
hydroxy-, CC 28, 3407

E. Coli, NT 192, 35*
(+ oxygen), NT 192, 35*
irradiated, NT 192, 35*

2,4,6-Collidine
(+ copper + thiocyanate), ZP 221, 200*

Columbianetin, V 310

Conessine, U 359

Confertifolin, TT 19, 639

γ-Coniceine, R 80, 520

Copper, AB 100, 107*; B 237, 2338*; CH 13, 18; JA 81, 1851*; P 38, 2021*; SC 15, 1077*
(+ acetone, acetyl-), P 29, 33*; P 36, 3225*
(+ acetophenonimine, 2-hydroxy-), P 29, 37*
(+ adenosine triphosphate), B 237, 178
(+ adrenaline), AB 100, 107*
(+ alanine, glycyl-), JA 84, 4653
(+ benzidine + iodide), CP 60, 370*
(+ benzidine + thiocyanate), CP 60, 370*
(+ chloride), J 36, 1639*
(+ cholate, deoxy-), B 237, 2338*
(+ 2,4,6-collidine + thiocyanate), ZP 221, 200*
(+ cytochrome oxidase), B 237, 2342*
(+ dipyridyl + sulfate), P 35, 763*
(+ dithiocarbamate, diethyl-), AK 17, 254*; NT 190, 259*; P 36, 3224*; ZP 215, 209*
(+ dithiocarbamate, diisopropyl-), AK 17, 256*; NT 184, 183*
(+ ethylenediamine + nitrate), CP 60, 370*
(+ ethylenediamine + sulfate), P 39, 1141*
(+ ethylenediaminetetraacetic acid), B 238, 2340*
(+ glycine, glycyl-), JA 84, 4652
(+ phthalocyanine), JA 83, 1866*; NT 191, 65*; P 35, 157*
(+ 1-picoline), P 35, 763*
(+ proline, glycyl-), JA 84, 4654
(+ pyridine), P 36, 3230*
(+ pyridine + benzoic acid), CP 60, 370*
(+ pyridine + cyanide), ZP 221, 201*
(+ pyridine + persulfate), P 35, 764*

(+ pyridine + sulfate), P 35, 763*
(+ pyridine + thiocyanate), ZP 221, 200*
(+ salicylaldimine), P 29, 36*
(+ salicylaldoxime), P 36, 3231*
(+ *o*-toluidine + thiocyanate), CP 60, 370*

Copper chloride dihydrate, P 33, 1077*

Copper (II) chloride
(+ triethylamine), IC 2, 1213*

Copper etioporphyrin II, JA 82, 3009*

Copper (II) formate tetrahydrate, J 35, 1207

Copper nitrate trihydrate, M 2, 553

Copper (II) oxide-alumina, J 34, 1292*

Copper sulfate, N 653, 151*; NT 183, 322*
(+ catechol), NT 183, 322*
monohydrate, NT 185, 758*
pentahydrate, NT 185, 758*; NT 193, 365*; P 33, 1077*

Coproporphyrin I, JA 83, 3745
methyl ester, CH 17, 178; P 31, 1413

Coproporphyrin-3, JA 83, 3745

Corning 707 glass, P 29, 990

Coronene, JA 80, 4554*; P 32, 309*; SA 18, 785*

Corticosterone, JA 80, 5134
11-dehydro-, JA 80, 5130
9α-fluoro-, acetate, JA 80, 5128

Cortisone 3,20-bisethylene dioxide, OR 28, 764

O-Coumaric acid, IS 56A, 81

Coumarin, IS 56A, 73; V 225
7-acetoxy-6-allyl-4,8-dimethyl-, V 323
6-amino-, IS 56A, 82
8-hydroxy-, IS 56A, 82
4-methyl-7-ethoxy-, V 294
4-methyl-5-hydroxy-, IS 56A, 82
4-methyl-6-hydroxy-, IS 56A, 82
4-methyl-7-hydroxy-, IS 56A, 82
4-phenyl-6,7-dihydroxy-, IS 56A, 81

Coumarin-6-sulfonic acid sodium salt, IS 56A, 82

m-Cresol, JA 83, 1847; V 160

o-Cresol, JA 83, 1847

p-Cresol, JA 83, 1847

Crinin, *O*-acetyldihydro-, H 46, 811

Crispatic acid, AU 16, 242

Crispatine, AU 16, 240

Crotonaldehyde, V 60

trans-Crotonaldehyde, AK 16, 474; CR 63, 99; P 39, 2439

Crotanate, *N*-benzyl-, JA 85, 2698

Crotonic acid, J 33, 428; V 61
3-chloro-, V 53
3-methyl-, J 33, 428; J 35, 1197

cis-Crotonic acid
methyl ester, CN 39, 506
3-chloro-, ethyl ester, C (1960), 2357

trans-Crotonic acid
methyl ester, P 33, 1797
3-chloro-, ethyl ester, C (1960), 2357

cis-Crotononitrile, JA 83, 1301

trans-Crotononitrile, JA 83, 1301

Crude oil, NT 182, 1087; P 30, 1635

Cryptopine, F[5]30, 1898

Crystal Violet, O 9, 414*

Cumarone,
4,6-dimethoxy-3-(3,4-dimethoxyphenyl)-2-(2-methoxybenzyl)-, BE 96, 2873
4,6-dimethoxy-3-(3,4-dimethoxyphenyl)-2-(2,4,6-trimethoxybenzyl)-, BE 96, 2873

Cumene, PS 38, 77; V 240
(+ chromium), O 8, 71*
hydroperoxide, HB 642

Cumylperoxy, JA 85, 592*

C-Curarin, 10,10′-dinitro-, dichloride, TT 14, 146

C-Curarin III chloride, N 663, 153

Curine, *O,O′*-dimethyl-, C (1961), 1899

Cuticle, AB 86, 227*

Cyanamide, diethyl-, P 29, 1022

Cyanide
(+ chromium + nitric oxide), P 34, 105*
(+ chromium + nitrite), P 38, 2580*; P 38, 2581*
(+ cobalt), AU 16, 558*
(+ cobalt + oxygen), AU 16, 561*

(+ copper + pyridine), ZP 221, 201*
(+ decaborane), IN 20, 69
(+ decaborane + dimethyl sulfide), IN 20, 69
(+ iron + benzyl isonitrile), IC 2, 1049
(+ iron + benzyl isonitrile + bromide), IC 2, 1049
(+ iron + 4-carbomethoxybenzyl isonitrile + bromide), IC 2, 1049
(+ iron + 4-chlorobenzyl isonitrile + bromide), IC 2, 1049
(+ iron + 2-methylbenzyl isonitrile + bromide), IC 2, 1049
(+ iron + 3-methylbenzyl isonitrile + bromide), IC 2, 1049
(+ iron + 4-methylbenzyl isonitrile + bromide), IC 2, 1049

Cyanine,
[2-bis{3-ethylbenzoselenazolyl}]-pentamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethylbenzothiazolyl}-10-bromo]-pentamethine-, iodide, PC 66, 2405*
[2-bis{3-ethylbenzothiazolyl}]-pentamethine-, iodide, PC 66, 2405*
[2-{3-ethylbenzothiazolyl}]-[2-{1-ethylquinolyl}]-trimethine-, iodide
(+ chloranil), PC 67, 2637*
[2-{3-ethylbenzothiazolyl}]-[4-{1-ethylquinolyl}]-trimethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethylbenzothiazolyl}]-heptamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethylbenzothiazolyl}]-9-methyltrimethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide
(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ bromanil), PC 67, 2638*
(+ chloranil), PC 67, 2637*
(+ iodine), PC 67, 2638*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ maleic anhydride), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*
[2-bis{3-ethylbenzothiazolyl}]-pentamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide
(+ chloranil), PC 67, 2637*
(+ iodine), PC 67, 2638*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ maleic anhydride), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*
[2-bis{3-ethylbenzoxazolyl}]-heptamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{1-ethyl-3,3-dimethylindolinyl}]-heptamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{1-ethyl-3,3-dimethylindolinyl}]-trimethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethyl-4,5-diphenylthiazolyl}]-pentamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-ethyl-2-naphthothiazolyl}]-11-ethyltrimethine-, chloride
(+ chloranil), PC 67, 2637*
[4-bis{1-ethylquinolyl}]-11-bromopentamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{1-ethylquinolyl}]-monomethine-, iodide
(+ chloranil), PC 67, 2637*
[4-bis{1-ethylquinolyl}]-monomethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{1-ethylquinolyl}]-trimethine-, iodide
(+ anthraquinone, diamino-), PC 67, 2638*
(+ bromanil), PC 67, 2638*
(+ chloranil), PC 67, 2637*
(+ iodine), PC 67, 2638*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ maleic anhydride), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*
[2-bis{3-ethylthiazolinyl}]-heptamethine-, iodide
(+ chloranil), PC 67, 2637*
[2-bis{3-methyl-2-naphthothiazolyl}]-11-phenyltrimethine-, *p*-toluenesulfonate
(+ chloranil), PC 67, 2637*

Cyanine dyes, PC 66, 2405*

Cyanogen, P 36, 1939*

Cyanogen chloride, P 28, 1185

Cyanuric chloride, P 29, 1383

Cyanuryl chloride, P 35, 1293

3α,5α-Cycloandrostane,
6α-acetoxy-17-ethylenedioxy-, OR 27, 4612
6β-acetoxy-17-ethylenedioxy-, OR 27, 4612

3α,5α-Cycloandrostan-17-one,
6α-acetamido-, OR 27, 4628
6β-acetamido-, OR 27, 4628

Cyclo[3.2.2]azine, H 46, 1953; H 46, 2259*

Cyclo[3.2.2]azine-1,4-d_2, H 46, 1953; H 46, 2262*

Cycloborazane, 1,3,5-trimethyl-, JA 85, 396

Cyclobutane, P 39, 2173*
1,2-dibromohexafluoro-, CN 41, 2398
1,1-difluoro-2,2-dichloro-3-methyl-3-phenyl-, JA 84, 2936
dihydrotetramethylene-, JA 85, 2270
(+ ethylene, tetracyano-), JA 85, 2270

1,3-dimethylene-, JA 80, 5509
methylene-, V 109
3-methylene-1-bromo-1-bromomethyl-, JA 80, 5509
3-methylene-1,1-diethoxy-, JA 80, 5839
tetramethylene-, JA 85, 2270
(+ ethylene, tetracyano-), JA 85, 2270
(+ maleimide, *N*-phenyl-), JA 85, 2270
dimer, JA 85, 2270

Cyclobutanecarboxylic acid, 2-methylene-, V 128

Cyclobutane-1,2-dicarboxylic acid,
3,4-dibromo-, TT 19, 1222
3,4-dichloro-, TT 19, 1222

trans-Cyclobutane-1,3-dicarboxylic acid, HB 507

Cyclobutane-3α,4β-dicarboxylic acid, 1α,2α-bis(2-methoxyphenyl)-, dimethyl ester, CN 40, 1251

1,3-Cyclobutanedione, tetramethyl-, sodium ketyl, P 36, 2230*

Cyclobutanol,
2-methylene-, JA 82, 6394
3-methylene-, JA 82, 6394

Cyclobutanol-2,4-d_2, TT 11, 178

Cyclobutanone, H 41, 37; JA 82, 4071; TT 11, 178
oxime, PC 65, 493
2,2-dibromo-, PC 67, 2886
3-methylene-, JA 80, 5839
ethylene ketal, JA 80, 5839

Cyclobutanone-2,4-d_2, TT 11, 178

Cyclobutene,
1,1-difluoro-2,2-diethoxy-3-phenyl-, JA 82, 3107
1,1-difluoro-2,4-diethoxy-3-phenyl-, JA 82, 3107
1,1-difluoro-2,4-dipiperidino-3-phenyl-, JA 82, 3113
1-methyl-3-methylene-, JA 80, 5509

2-Cyclobutene,
1,1-difluoro-2-chloro-3,4-diphenyl-, JA 82, 3107
1,1-difluoro-2-chloro-4-ethoxy-3-phenyl-, JA 82, 3107

Cyclobutenone,
4,4-difluoro-2-phenyl-, JA 82, 3109
4,4-difluoro-3-phenyl-, JA 82, 3109

3-Cyclobuten-1-one,
2-bromo-3-hydroxy-2,4-diphenyl-, JA 85, 3503
3-hydroxy-2,4-diphenyl-, JA 85, 3503

Cyclobutenyl, 1,2,3,4-tetramethyl-2-chloro-, JA 84, 3199

2-Cyclobutenyl bromide, 1-methyl-, JA 84, 787

Cyclobutyl, P 39, 2173*

Cyclobutyl ethyl ether
(+ cyclopropylcarbinylethyl ether), JA 82, 1968

Cyclododecane, HB 441

Cyclododecanol, HB 559

cis, trans, trans-1,5,9-Cyclododecatriene, HB 450

β-Cyclogeraniolene, 6-methyl-, J 35, 818

2-Cycloheptadecene-1,10-dione, OR 28, 3105

3-Cycloheptadecene-1,10-dione, OR 28, 3106

1,3-Cycloheptadiene, C (1961), 596
(+ iron + carbon monoxide), C (1961), 596

Cycloheptadienone,
2-isopropyl-, J 34, 620
2-methyl-, J 34, 620
2-phenyl-, J 34, 620

2,4-Cycloheptadienone, 7-methyl-5-methoxy-, JA 84, 1216

Cycloheptane, P 39, 2177*

Cycloheptanone, JA 82, 4071

Cycloheptatriene, C (1961), 596; C (1961), 2039; JA 82, 5848; R 82, 720; V 158
(+ chromium tricarbonyl), C (1961), 2039
(+ iron + carbon monoxide), C (1961), 596
(+ molybdenum tricarbonyl), C (1961), 2039
(+ tungsten tricarbonyl), C (1961), 2039
irradiated, J 36, 592*; P 37, 1886*
2-*t*-butyl-3,7,7-trimethyl-, JA 85, 1930
1-methylamino-7-methylimino-, JA 83, 3127
1-methylamino-7-thioxo-, JA 83, 3136
1-(2-naphthylamino)-7-(2-naphthylimino)-
(+ nickel), JA 83, 3715
1,1,3,4-tetramethyl-, C (1961), 2039
(+ molybdenum tricarbonyl), C (1961), 2039

Cycloheptatriene-7-d_1, R 82, 720

Cycloheptatriene-1,6-dicarboxylic acid, H 46, 2903
dimethyl ester, H 46, 2898

Cycloheptatrienyl, P 37, 1150*

Cyclohexadiene, methylenehexamethyl-, HB 451

1,3-Cyclohexadiene, C (1961), 596
(+ azodicarboxylic acid ethyl ester), OR 28, 2955

(+ iron + carbon monoxide), C(1961), 596
2-acetyl-5,5-dimethyl-, JA 82, 701
1-methyl-, HB 67
2-methyl-, HB 68
octafluoro-
(+ tri-iron dodecacarbonyl), C(1961), 2740
perfluoro-, C(1961), 2740

1,3-Cyclohexadiene-1,4-d_2
(+ azodicarboxylic acid ethyl ester), OR 28, 2955

1,4-Cyclohexadiene, P 39, 2187*
octafluoro-
(+ tri-iron dodecacarbonyl), C(1961), 2740
perfluoro-, C(1961), 2740

2,5-Cyclohexadiene, 4-methylene-1,1,2,3,5,6-hexamethyl-, TT 4, 180

Cyclohexadienyl, P 39, 2181*

2,4-Cyclohexadien-1-yl-bicarbamic acid diethyl ester, OR 28, 2956

Cyclohexane, CR 63, 107; HB 15; JA 83, 1673; JA 84, 387; P 37, 1168; P 39, 3161
irradiated, CP 57, 680*; P 28, 1173*; P 39, 2176*
benzylidene-, BE 96, 3114
bromo-, CN 38, 1243
trans-1-bromo-2-acetoxy-4-vinyl-, HB 589
trans-1,2-bromo-hydroxyvinyl-, HB 558
cis-4-*t*-butylnitro-, OR 27, 1927
trans-4-*t*-butylnitro-, OR 27, 1927
cis-4-*t*-butyl-1-phenyl-, JA 85, 3229
chloro-, CN 38, 1243; HB 689
trans-1-chloro-2-iodo-, CN 40, 1872
cis-2-(2-chlorophenyl)-1-nitro-, OR 27, 3008
trans-2-(2-chlorophenyl)-1-nitro-, OR 27, 3008
cis-2-(3-chlorophenyl)-1-nitro-, OR 27, 3008
trans-2-(3-chlorophenyl)-1-nitro-, OR 27, 3008
cis-2-(4-chlorophenyl)-1-nitro-, OR 27, 3007
trans-2-(4-chlorophenyl)-1-nitro-, OR 27, 3007
chloroundecafluoro-, FS 56, 1561
cis-1,4-diacetoxy-, TT 18, 805
trans-1,2-diacetoxy-4-vinyl-, HB 588
1,2-*trans*-dibromo-, FS 57, 392
cis-1,3-dibromo-, OR 28, 2240
trans-1,3-dibromo-, OR 28, 2241
1,2-dichloro-, FS 57, 394
cis-1,3-dichloro-, JA 85, 2989
trans-1,3-dichloro-, JA 85, 2989
1,1-difluoro-, G 75, 26
cis-1H,2H-dihydrodecafluoro-, FS 56, 1561
trans-1H,2H-dihydrodecafluoro-, FS 56, 1561
cis-1H,3H-dihydrodecafluoro-, FS 56, 1561
trans-1H,3H-dihydrodecafluoro-, FS 56, 1561
cis-1H,4H-dihydrodecafluoro-, FS 56, 1561
trans-1,2-dihydroxy-4-vinyl-, HB 557
1α,3α-dimethoxy-2β-acetoxy-, JA 80, 2239; JA 80, 6100
1α,3β-dimethoxy-2α-acetoxy-, JA 80, 2239; JA 80, 6100
1,1-dimethyl-, HB 17; P 37, 1169
cis-1,2-dimethyl-, HB 18; P 37, 1169; SA 16, 836
trans-1,2-dimethyl-, HB 19; P 37, 1168; SA 16, 836
cis-1,3-dimethyl-, HB 20; P 37, 1169; SA 16, 836
trans-1,3-dimethyl-, HB 21; P 37, 1171; SA 16, 836
cis-1,4-dimethyl-, HB 22; P 37, 1170; SA 16, 836
trans-1,4-dimethyl-, HB 23; P 37, 1168; SA 16, 836
ethoxy-, FS 57, 392
ethyl-, HB 24
γ-heptachloro-, JA 81, 1607
ε-heptachloro-, JA 81, 1607
α-1,2,3,4,5,6-hexachloro-, HB 266; JA 80, 6103
β-1,2,3,4,5,6-hexachloro-, JA 80, 6103
γ-1,2,3,4,5,6-hexachloro-, HB 267; JA 80, 6103
δ-1,2,3,4,5,6-hexachloro-, JA 80, 6103
ε-1,2,3,4,5,6-hexachloro-, JA 80, 6103
hexaethylidene-, H 44, 383
cis-1-iodo-2-perfluoroisopropyl-, JA 84, 3021
trans-1-iodo-2-perfluoroisopropyl-, JA 84, 3021
cis-1-iodo-2-perfluoropropyl-, JA 84, 3021
trans-1-iodo-2-perfluoropropyl-, JA 84, 3021
methoxy-, FS 57, 392
1α-methoxy-2α-acetoxy-3β-acetylamino-, CN 41, 2336
1α-methoxy-2α-acetoxy-3β-diacetylamino-, CN 41, 2336
methyl-, CN 39, 2269; HB 16
cis-1-methyl-4-*t*-butyl-, P 37, 1171
trans-1-methyl-4-*t*-butyl-, P 37, 1168
cis-4-methyl-1-phenyl-, JA 85, 3230
trans-4-methyl-1-phenyl-, JA 85, 3230
methylene-, V 180
perfluoromethyl-, FS 56, 1561
phenyl-, HB 312
irradiated, P 37, 2404*
propyl-, HB 29
cis-1,1,3,5-tetramethyl-, P 37, 1172
cis-2-(*o*-tolyl)-1-nitro-, OR 27, 3008
trans-2-(*o*-tolyl)-1-nitro-, OR 27, 3008
cis-2-(*p*-tolyl)-1-nitro-, OR 27, 3008
trans-2-(*p*-tolyl)-1-nitro-, OR 27, 3008
1α,2β,3α-trimethoxy-, JA 80, 6104
1,1,3-trimethyl-, HB 25
1,2,3-trimethyl-, HB 26
1,2,4-trimethyl-, HB 27
1,3,5-trimethyl-, HB 28
1,*cis*-3,*cis*-5-trimethyl-, HB 302
1,*cis*-3,*trans*-5-trimethyl-, HB 303
1,2,4-trimethylene-, JA 81, 4248
1,3,5-trimethylene-, JA 81, 4248
undecafluoro-, FS 56, 1561
4-vinyl-1,2-epoxy-, HB 649

Cyclohexane-1,3,3-d_3,
1-chloro-2-iodo-, CN 40, 1872

2-chloro-1-iodo-, CN 40, 1872

Cyclohexane-2,2,6,6-d$_4$,
methyl-, CN 39, 2269

Cyclohexanecarboxylic acid, HB 161

cis-Cyclohexane-1,3-diacetic acid, OR 28, 3514

trans-Cyclohexane-1,3-diacetic acid, OR 28, 3514

cis-Cyclohexane-1,3-dicarboxylic acid, OR 28, 3514

trans-Cyclohexane-1,3-dicarboxylic acid,
OR 28, 3514
dimethyl ester, HB 166

cis-Cyclohexane-1,4-dicarboxylic acid dimethyl
ester, PS 45, 241

trans-Cyclohexane-1,4-dicarboxylic acid dimethyl
ester, PS 45, 240

1,2-Cyclohexanediol, triacetyl-*trans*-3-amino-,
BE 96, 2050

cis-1,2-Cyclohexanediol, PS A1, 2788

trans-1,2-Cyclohexanediol, PS A1, 2788

1,3-Cyclohexanediol, OR 27, 2362
3-*O*-acetyl-DL-2-acetamino-, BE 96, 849
5,5-dimethyl-, OR 27, 2364
triacetyl-DL-2-amino-, BE 96, 849

trans-1,3-Cyclohexanediol,
diacetyl-2-nitro-, BE 96, 847
triacetyl-2-amino-, BE 96, 847

1,4-Cyclohexanediol, *trans*-1,4-diphenyl-,
NN[13]8, 211

1,2-Cyclohexanedione, HB 346

1,3-Cyclohexanedione, HB 347

1,4-Cyclohexanedione, HB 350

cis-Cyclohexane-1,3-dipropionic acid, OR 28, 3515

trans-Cyclohexane-1,3-dipropionic acid,
OR 28, 3515

1,2,3,4-Cyclohexanetetrol, 5,6-dimercapto-,
diacetone ketal, OR 28, 458

cis,*cis*-1,2,4,5-Cyclohexanetetrol, OR 28, 896

cis,*trans*-1,2,4,5-Cyclohexanetetrol, OR 28, 896

trans,*trans*-1,2,4,5-Cyclohexanetetrol, OR 28, 896

Cyclohexanol, HB 162; J 35, 1905; JA 84, 1054;
OR 26, 2648
1-(2-acetoxyethyl)-*trans*-2-*o*-tolyl-, OR 28, 3532
cis-4-*t*-butyl-, JA 80, 6099
O-acetate, JA 80, 6099
trans-4-*t*-butyl-, JA 80, 6099
O-acetate, JA 80, 6099
cis-4-*t*-butyl-1-phenyl-, JA 85, 3229
trans-4-*t*-butyl-1-phenyl-, JA 85, 3229
cis-2-(2-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
trans-2-(2-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
cis-2-(3-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
trans-2-(3-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
cis-2-(4-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
trans-2-(4-chlorophenyl)-, OR 27, 716
acetate, OR 27, 716
1-ethynyl-, V 211
1-ethynyl-*cis*-2-*o*-tolyl-, OR 28, 1540
1-ethynyl-*trans*-2-*o*-tolyl-, OR 28, 1540
1-(2-hydroxyethyl)-*cis*-2-*o*-tolyl-, OR 28, 3532
2-methyl-, HB 163
3-methyl-, HB 164; OR 24, 1886
4-methyl-, HB 165
cis-2-*o*-tolyl-, OR 26, 2649
acetate, OR 26, 2649
trans-2-*o*-tolyl-, OR 26, 2649
acetate, OR 26, 2649
vinyl-, HB 556

Cyclohexanol-2,2,6,6-d$_4$, *cis*-4-*t*-butyl-1-phenyl-,
JA 85, 3229

Cyclohexanol-3,3,4,4,5,5-d$_6$, JA 84, 1054

Cyclohexanone, H 41, 37; HB 167; JA 80, 2534;
JA 82, 4071
2-acetoxy-, 2,4-dinitrophenylhydrazone,
OR 27, 2726
cis-2-acetoxy-6-bromo-4,4-dimethyl-, OR 28, 1350
2-acetoxy-4-methyl-, 2,4-dinitrophenylhydrazone,
OR 27, 2728
2-bromo-4,4-dimethyl-, TT 18, 793
2-chloro-, JA 80, 2534
2,6-dibenzal-, dimer, OR 26, 2192
3-methyl-, CN 39, 2268; HB 168
4-methyl-, HB 169
2-methyl-6-hydroxymethylene-, HB 625

Cyclohexanone-2,2,6,6-d$_4$, 3-methyl-, CN 39, 2268

Cyclohexastannane, dodecamethyl-, IC 2, 737

1-Cyclohexene, CR 63, 96; HB 57; JA 83, 4096
(+ hydrogen bromide), JA 84, 919*
(+ methane, tetranitro-), irradiated, SC 16, 1808*

(+ silver), C(1960), 2521
irradiated, P 39, 2848*
1,4-dimethyl-, HB 60
2,4-dimethyl-, HB 61
cis-3,4-dimethyl-, HB 62
trans-3,4-dimethyl-, HB 63
trans-3,5-dimethyl-, HB 64
cis-3,6-dimethyl-, HB 65
4,4-dimethyl-6-(2-hydroxy-2-propyl)-1-phenyl-, OR 27, 4252
3,5-dimethylene-, JA 81, 4251
3,6-dimethylene-, JA 81, 4251
1-(2-hydroxyethyl)-2-*o*-tolyl-, OR 28, 3533
2-(2-hydroxyethyl)-3-*o*-tolyl-, OR 28, 3533
1-methyl-, HB 58
4-methyl-, HB 59
trans-4-methyl-6-nitro-1-phenyl-, OR 27, 4252
3,5,7-trimethylene-, JA 81, 4251
4-vinyl-, HB 66; HB 447; V 210

cis-4-Cyclohexene-1,2-dicarboxylic anhydride, M 11, 441
1-methyl-, M 11, 442

2-Cyclohexen-1-one,
2-acetoxy-4,4-dimethyl-, OR 28, 1348
2-acetoxy-5,5-dimethyl-, OR 28, 1348
6-acetoxy-4,4-dimethyl-, OR 28, 1348
2-hydroxy-, HB 346

Cyclohexenyl,
1,3-dihydroxy-5,5-dimethyl-, JA 85, 2992
1,3,5,5-tetramethyl-, JA 85, 2997

Cyclohexenyl hexafluoroantimonate, JA 83, 5031

Cyclohexyl, O 6, 361*; P 35, 1625*; P 39, 2176*

Cyclohexylamine,
cis-2-(2-chlorophenyl)-, OR 27, 3008
trans-2-(2-chlorophenyl)-, OR 27, 3008
cis-2-(3-chlorophenyl)-, OR 27, 3008
trans-2-(3-chlorophenyl)-, OR 27, 3008
cis-2-(4-chlorophenyl)-, OR 27, 3007
trans-2-(4-chlorophenyl)-, OR 27, 3007
cis-2-*o*-tolyl-, OR 27, 3008
trans-2-*o*-tolyl-, OR 27, 3008
cis-2-*p*-tolyl-, OR 27, 3008
trans-2-*p*-tolyl-, OR 27, 3008

Cyclohexyl bromide, irradiated, CP 57, 1109*

Cyclohexyl chloride, irradiated, CP 57, 1109*; CP 57, 1111*

Cyclohexyl cyanide, 3,4-epoxy-, V 173

Cyclohexyl *cis*-2,6-diacetate,
1,1,4,4-tetramethyl-, P 34, 595; P 37, 2481

Cyclohexyl *trans*-2,6-diacetate, 1,1,4,4-tetramethyl-, P 34, 595

Cyclohexyl iodide, P 38, 446
irradiated, CP 57, 1109*; FS 58, 1485*

Cyclohexyl mesityl ketone, HB 241

α-Cyclolavandulol, 6-methyl-, J 35, 819

cis,*cis*,*cis*-1,4,7-Cyclononatriene, JA 85, 346; JA 85, 347

18,20-Cyclo-21-nor-5α-pregnane, 3β-acetoxy-20-keto-, H 42, 2127

1,3-Cyclooctadiene, V 209

Cyclooctane, JA 85, 1205; P 39, 2186*
1,3,5,7-tetramethylene-, JA 81, 4248

Cyclooctane-d_{15}, JA 85, 1205

Cyclooctanone, JA 82, 4071

Cyclooctatetraene, HB 69; JA 82, 3785; JA 84, 672
(+ cobalt, π-cyclopentadienyl-), C(1962), 4823
(+ iron + carbon monoxide), C(1962), 851
(+ iron tricarbonyl), C(1962), 4822
(+ potassium), JA 82, 3785
(+ rhodium, π-cyclopentadienyl-), C(1962), 4823

Cyclooctatetraenyl, JA 85, 2362*
(+ lithium), JA 85, 2362*
(+ sodium), JA 85, 2362*

1,3,5-Cyclooctatriene
(+ diiron hexacarbonyl), IC 2, 809
(+ molybdenum tricarbonyl), IC 2, 809

cis-Cyclooctene, JA 85, 2016

Cyclopentadiene, C(1959), 3758; HB 443; JA 82, 5847
(+ acetic acid, trichloro-), C(1961), 1942
(+ acrylic acid, 2-phenylsulfinyl-), C(1963), 3725
(+ benzoquinone), H 45, 1873
irradiated, P 39, 2848*

Cyclopentane, HB 9; P 39, 2174*
irradiated, P 28, 1173*
cyclopentyl-, HB 14
cis-1,3-dichloro-, JA 85, 2984
trans-1,3-dichloro-, JA 85, 2984
1,1-dimethyl-, HB 291
cis-1,2-dimethyl-, HB 11
trans-1,2-dimethyl-, HB 292
cis-1,3-dimethyl-, HB 293
trans-1,3-dimethyl-, HB 294
3,5-dimethyl-3,5-dihydroxy-1,2-peroxy-, JA 85, 224

3,5-dimethyl-3-hydroxy-5-hydroperoxy-1,2-peroxy-, JA 85, 224
cis-1,2-diphenyl-, JA 84, 863
methyl-, HB 10
methylene-, V 132
cis-1-methyl-2-ethyl-, HB 13
1,1,2-trimethyl-, HB 295
1,1,3-trimethyl-, HB 296
cis,*cis*,*cis*-1,2,3-trimethyl-, HB 297
cis,*trans*,*cis*-1,2,3-trimethyl-, HB 298
cis,*cis*,*trans*-1,2,4-trimethyl-, HB 12
cis,*trans*,*cis*-1,2,4-trimethyl-, HB 299; HB 438

cis-Cyclopentane-1,3-dicarboxylic acid, HB 336
1,2,2-trimethyl-, HB 508

Cyclopentanol, C(1961), 1942

Cyclopentanone, CN 39, 2317; F[5]30, 1284; H 41, 37; JA 82, 4071

Cyclopenta[c]thiapyran, JA 85, 3450

1-Cyclopentene, HB 56
(+ hydrogen bromide), JA 84, 919*
1,2-dichlorohexafluoro-, M 7, 390
2,4-dimethyl-, HB 307
1-methyl-, HB 306
perfluoro-, M 7, 391

3-Cyclopentene, 1,1-dichloro-, HB 687

Cyclopenteno[d]-1-azabicyclo[4.4.0]decane, 2,2-dimethyl-, OR 28, 2952

Cyclopenteno[d]-1-azabicyclo[4.3.0]nonane, 2,2-dimethyl-, OR 28, 2952

Cyclopenteno[d]-1-azabicyclo[4.2.0]octane, 2,2-dimethyl-, OR 28, 2951

2-Cyclopenten-2-ol-1-one, 3-methyl-, SC 13, 1734

1,2-Cyclopentenophenanthrene,
3′-ethyl-, H 45, 120
3′-methyl-, H 45, 119
3′-methyl-3′-ethyl-, H 45, 120

Cyclopentenyl,
1,3-dimethyl-, JA 85, 2992
2,4-dimethyl-, JA 85, 2992
1,3,4,4,5,5-hexamethyl-, JA 85, 2996
3-methyl-1-ethyl-, JA 85, 2992
3-methyl-1-isopropyl-, JA 85, 2992

Cyclopentyl, O 6, 361*; O 12, 245*; P 39, 2174*

Cyclopentyl bromide, irradiated, FS 58, 1485*

5α,9β,19-Cyclopregnane, 3,20-di-(ethylenedioxy)-11-keto-, H 44, 2167

5α,11β,19-Cyclopregnane, 3,20-di-(ethylenedioxy)-11α-hydroxy-, H 44, 2164

5,19-Cyclopregnane, 3,11,20-triketo-6ξ-hydroxy-, H 45, 1264

11,19-Cyclo-5β-pregnane, 3,20-diethylenedioxy-11α-hydroxy-, H 45, 1266

18,20-Cyclo-5α-pregnane,
3β-acetoxy-20ξ-hydroxy-, H 42, 2126
(20R)-3β-acetoxy-20-hydroxy-, H 43, 357

11,19-Cyclo-5-pregnene, 3,20-diethylenedioxy-11α-hydroxy-, H 45, 1263

18,20-Cyclo-Δ^{20}-5α-pregnene, 3β-acetoxy-, H 42, 2127

Cyclopropane, F[5]29, 5; P 39, 2178*
allyl-, JA 83, 4924
1-carbomethoxy-*cis*-1,2-dimethyl-, JA 84, 3739
1-carbomethoxy-*trans*-1,2-dimethyl-, JA 84, 3739
1-chloro-2,2-dimethyl-, JA 82, 5726
1-chloro-2,3-dimethyl-, JA 82, 5726
1-chloro-2,2,3,3-tetramethyl-, JA 82, 5726
1,1-dichloro-2-methoxy-, JA 84, 2250
1-(2,4-dichlorophenoxy)-2,2-dimethyl-, BE 96, 2273
1,1-dichloro-2-vinyl-, HB 688
1,2-diphenyl-, JA 85, 3503
1-phenoxy-2,2-dimethyl-, BE 96, 2270
trans-1,2,3-tribenzoyl-, V 358

Cyclopropane-d_2, allyl-, JA 83, 4924

Cyclopropane-C^{13}, methyl-, JA 83, 1988

Cyclopropane-1-carboxylic acid, HB 335; JA 85, 2789
methyl ester, V 112
cis-1-chloro-2-methyl-2-cyano-, methyl ester, CN 41, 685
trans-1-chloro-2-methyl-2-cyano-, methyl ester, CN 41, 685
gem-dimethyl-, F[5]30, 381
cis-nitro-, R 79, 1240
trans-nitro-, R 79, 1240
1-phenyl-, CN 41, 2436

Cyclopropane-1-carboxylic acid-1-d, JA 85, 2789

Cyclopropane-1-*cis*,2-*cis*-dicarboxylic acid, 1-*trans*-nitro-, R 79, 1237

Cyclopropanone
diethylacetal, JA 81, 2583
2,2-dichloro-, diethylacetal, JA 81, 2583

Cyclopropenium bromide,
dibromo-1-(4-hydroxyphenyl)-2,3-diphenyl-, JA 85, 1883

1-(4-hydroxyphenyl)-2,3-diphenyl-, JA 85, 1883

Cyclopropyl, P 39, 2180*

Cyclopropylamine, CN 41, 2776; V 37

Cyclopropyl bromide, JA 85, 2789

Cyclopropylcarbinyl chloride, JA 83, 1988; TT 11, 177

Cyclopropylcarbinyl-α-C^{13} chloride, JA 83, 1988

Cyclopropylcarbinyl-α-d_2 chloride, TT 11, 177

Cyclopropylcarbinylethyl ether
(+ cyclobutyl ethyl ether), JA 82, 1968

Cyclopropyl cyanide, BE 95, 2292

Cyclotetrasiloxane, octaphenyl-, J 33, 71

p-Cymene, HB 310; V 268

Cystamine
dihydrochloride, irradiated, NT 185, 307*
N,N'-tetramethyl-, dihydrochloride, irradiated, NT 185, 308*

Cysteamine
(+ albumin), irradiated, NT 190, 999*
(+ sperm heads), NT 193, 291*
hydrochloride, irradiated, P 37, 2190*

Cysteine, J 36, 579; P 36, 1259*
irradiated, P 37, 2190*; PC 62, 793*; SC 15, 794*
N',S-diacetyl-*N*-carbamyl-, OR 27, 3120

L-Cysteine, JA 81, 2872
hydrochloride, irradiated, NT 185, 308*

Cystine, J 36, 579
irradiated, NT 193, 365*; PC 62, 792*

L-Cystine
irradiated, P 34, 284*
dihydrochloride, irradiated, P 34, 283*

Cysts, S 142, 504*
irradiated, S 142, 503*

2',3'-Cytidilic acid, JA 82, 227

Cytidine, JA 82, 230; JA 83, 2910; JA 84, 4465
2',3'-cyclic monophosphate, JA 84, 63
hemisulfate, JA 82, 226
deoxy-, JA 84, 4465; JA 85, 1007

Cytochrome c, B 237, 1813

Cytochrome oxidase, B 237, 2339*; BJ 86, 555*; SC 15, 1076*
(+ copper), B 237, 2342*

Cytochrome c oxidase, B 238, 2222*

Cytosine, JA 83, 2910; JA 85, 1658
(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ benzoquinone), PC 67, 2638*
hydrochloride, C(1963), 3048; JA 83, 2910
N_1-methyl-, JA 82, 226
1-methyl-, S 142, 1570
hydrochloride, S 142, 1570

Cytosine-N^{15},
1-methyl-, S 142, 1570
hydrochloride, S 142, 1570

D

Dacron, PS 46, 260

Dalbergione, AN 52, 1194
diacetyldihydro-, AN 52, 1194

24-Dammarene, 20ξ_2-hydroxy-, F[5]29, 1832

Decaborane, C(1960), 427; C(1960), 431; C(1960), 5009; C(1960), 5013; C(1962), 3421; IC 2, 660; JA 80, 2672; JA 80, 4525; JA 81, 839; JA 81, 4500; JA 84, 1805; P 29, 678
(+ acetamide, *N,N*-dimethyl-), C(1961), 2199
(+ acetonitrile), C(1961), 2199
(+ ammonia), C(1963), 5817
(+ cyanide), IN 20, 69
(+ deuterium oxide), JA 81, 839
(+ diethylamine), IC 1, 623; IC 1, 628
(+ diethyl sulfide), IC 2, 660
(+ dimethyl sulfide), C(1961), 2199; C(1963), 5817; IN 20, 69
(+ dimethyl sulfide + cyanide), IN 20, 69
(+ formamide, *N,N*-dimethyl-), C(1961), 2199
(+ pyridine), C(1961), 2199
(+ triethylamine), C(1961), 2199
rubidium salt, IC 2, 648
sodium salt, C(1962), 3421
tetramethylammonium salt, IN 20, 70
bromo-, JA 80, 2672
2-bromo-, IC 2, 660
(+ diethyl sulfide), IC 2, 660
diethyl-, C(1960), 431
diiodo-, JA 80, 2672
1,2-dimethyl-, C(1960), 5009
2,4-dimethyl-, C(1960), 5009
5,6-dimethyl-, C(1960), 5013
6,9-dimethyl-, C(1960), 5013
ethyl-, C(1960), 427; C(1960), 431

1-(4-hydroxyphenyl)-2,3-diphenyl-, JA 85, 1883

Cyclopropyl, P 39, 2180*

Cyclopropylamine, CN 41, 2776; V 37

Cyclopropyl bromide, JA 85, 2789

Cyclopropylcarbinyl chloride, JA 83, 1988; TT 11, 177

Cyclopropylcarbinyl-α-C^{13} chloride, JA 83, 1988

Cyclopropylcarbinyl-α-d_2 chloride, TT 11, 177

Cyclopropylcarbinylethyl ether
(+ cyclobutyl ethyl ether), JA 82, 1968

Cyclopropyl cyanide, BE 95, 2292

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Cystamine
dihydrochloride, irradiated, NT 185, 307*
N,N'-tetramethyl-, dihydrochloride, irradiated, NT 185, 308*

Cysteamine
(+ albumin), irradiated, NT 190, 999*
(+ sperm heads), NT 193, 291*
hydrochloride, irradiated, P 37, 2190*

Cysteine, J 36, 579; P 36, 1259*
irradiated, P 37, 2190*; PC 62, 793*; SC 15, 794*
N',S-diacetyl-*N*-carbamyl-, OR 27, 3120

L-Cysteine, JA 81, 2872
hydrochloride, irradiated, NT 185, 308*

Cystine, J 36, 579
irradiated, NT 193, 365*; PC 62, 792*

L-Cystine
irradiated, P 34, 284*
dihydrochloride, irradiated, P 34, 283*

Cysts, S 142, 504*
irradiated, S 142, 503*

2',3'-Cytidilic acid, JA 82, 227

Cytidine, JA 82, 230; JA 83, 2910; JA 84, 4465
2',3'-cyclic monophosphate, JA 84, 63
hemisulfate, JA 82, 226
deoxy-, JA 84, 4465; JA 85, 1007

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(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ benzoquinone), PC 67, 2638*
hydrochloride, C(1963), 3048; JA 83, 2910
N_1-methyl-, JA 82, 226
1-methyl-, S 142, 1570
hydrochloride, S 142, 1570

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1-methyl-, S 142, 1570
hydrochloride, S 142, 1570

D

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(+ acetamide, *N,N*-dimethyl-), C(1961), 2199
(+ acetonitrile), C(1961), 2199
(+ ammonia), C(1963), 5817
(+ cyanide), IN 20, 69
(+ deuterium oxide), JA 81, 839
(+ diethylamine), IC 1, 623; IC 1, 628
(+ diethyl sulfide), IC 2, 660
(+ dimethyl sulfide), C(1961), 2199; C(1963), 5817; IN 20, 69
(+ dimethyl sulfide + cyanide), IN 20, 69
(+ formamide, *N,N*-dimethyl-), C(1961), 2199
(+ pyridine), C(1961), 2199
(+ triethylamine), C(1961), 2199
rubidium salt, IC 2, 648
sodium salt, C(1962), 3421
tetramethylammonium salt, IN 20, 70
bromo-, JA 80, 2672
2-bromo-, IC 2, 660
(+ diethyl sulfide), IC 2, 660
diethyl-, C(1960), 431
diiodo-, JA 80, 2672
1,2-dimethyl-, C(1960), 5009
2,4-dimethyl-, C(1960), 5009
5,6-dimethyl-, C(1960), 5013
6,9-dimethyl-, C(1960), 5013
ethyl-, C(1960), 427; C(1960), 431

5-ethyl-, C(1960), 5017
iodo-, JA 80, 2672
2-methyl-, C(1960), 5009
5-methyl-, C(1960), 5017
6-methyl-, C(1960), 5013; C(1960), 5017
1,2,3,4-tetramethyl-, C(1960), 5009
1,2,3,5(8)-tetramethyl-, C(1960), 5009
1,2,3-trimethyl-, C(1960), 5009
1,2,4-trimethyl-, C(1960), 5009

Decaborane-d, P 29, 678

cis-Decalin, HB 32; JA 83, 966; P 37, 1170
9-carboxamido-2,2-ethylenedithio-, OR 27, 2013

trans-Decalin, HB 33; JA 83, 966; JA 83, 1674
9-carboxamido-2,2-ethylenedithio-, OR 27, 2013

4aβ-Decalin, 3′-acetyl-1β,2α-cyclopentano-6β-acetoxy-8aβ-methyl-, semicarbazone, H 45, 954

cis-Decalin-9-carboxamide, OR 27, 2013

trans-Decalin-9-carboxamide, OR 27, 2013

cis-Decal-*cis*-2-ol, 10-methyl-, JA 83, 1147

cis-Decal-*trans*-2-ol, 10-methyl-, JA 83, 1147

trans-Decal-*cis*-2-ol, 10-methyl-, JA 83, 1147

trans-Decal-*trans*-2-ol, 10-methyl-, JA 83, 1147

cis-2-Decalone-9-carboxamide, OR 27, 2013

Decane, HB 8
irradiated, P 30, 697*

Decanoic acid, ω-fluoro-, BJ 77, 23

1-Decanol, V 282
(+ boron trifluoride), IN 8, 473

1-Decene,
1,1-dichloro-, F[5]30, 1883
trans-1,2-dichloro-, F[5]30, 1883

Densipolic acid methyl ester, OR 27, 3114

Deuterium, PS 55, 577*
irradiated, PC 63, 1767*

Deuterium oxide, CN 40, 415*
(+ acetaldehyde), P 32, 636
(+ albumin), irradiated, JA 83, 1039*
(+ decaborane), JA 81, 839
(+ glycine, glycyl-), irradiated, JA 83, 1039*
(+ malic acid disodium salt), PC 63, 706
(+ rennin), irradiated, JA 83, 1039*
irradiated, CP 60, 727*; NT 193, 371*; P 32, 1251*; P 34, 1783*; P 37, 2275*

Deuterium oxide-t, S 133, 1082*

Dextran, CN 41, 296; CN 41, 778
irradiated, SC 15, 148*
sulfate, CN 41, 778

Diacetic anhydride
(+ boron trifluoride), N 668, 4

1,3-Diacetin, C(1963), 136

Diacetoacetic acid ethyl ester, SC 14, 1335

Diallyl ether, V 134

Diallyl oligoformal, C(1962), 4313

Dialuminum,
hexaethyl-
(+ dialuminum, hexamethyl-), F[5]30, 1471
hexamethyl-, F[5]30, 1468; FS 58, 643; JA 82, 4426
(+ aluminum, triisobutyl-), F[5]30, 1470
(+ dialuminum, hexaethyl-), F[5]30, 1471

Dialuminum dichloride, tetramethyl-, JA 82, 4426

Dialuminum tetrachloride, tetrachloro-, JA 82, 4426

Diaminotricarboxylic acid, H 46, 66

Diamyl disulfide, irradiated, P 36, 2228*

Diaspore, J 33, 1463

2,3-Diazapentadienyl, 1,1,5,5-bis(biphenylene)-, MO 94, 11*

1,3-Diaza-2-silacyclopentane, F[5]30, 1362

Diazine,
cis-difluoro-, P 37, 184
trans-difluoro-, P 37, 184
N-fluoro-*N′*-trifluoromethyl-, *N′*-oxide, IN 24, 49

Diazoacetone, H 46, 996

3-Diazoacetone-3-d_1, 1-methoxycarbonyloxy-1-phenyl-, H 46, 996

Diazomethane, di-1-naphthyl-, irradiated, N 633, 8*

Dibenzo-p-dioxin, P 38, 3036*

Dibenzofuran, HB 379
1,2,8,9-tetramethoxy-, AK 21, 68
1,4,8,9-tetramethoxy-, AK 21, 67

Dibenzyl ether, HB 232

Dibenzyl ketone, HB 371; HB 624
α-chloro-
(+ 2,6-lutidine + furan), JA 84, 4980

Dibenzylmethylammonium chloride, JA 85, 1882

Dibenzyl propyl phosphate, JA 81, 2643

Diborane, IC 2, 524; PC 67, 1937
(+ dimethylamine), JA 81, 4497
diammoniate, P 32, 952
methyl-, PC 64, 1584
1,2-tetramethylene-, JA 84, 3842
tetrapropyl-, C(1963), 2187

Diborane-B^{10}, PC 67, 1937

Dibutyl ether, J 33, 1607
irradiated, P 30, 697*

Di-*t*-butyl ether, HB 154

Dibutyl ketone, HB 158

Di-2-butyl phenyl phosphate, NT 190, 903

Dicentrine, V 342
emade base, V 349
methine, V 348

Di-(2-cyanoethyl) sulfide, V 127

Dicyclohexyl, 2,2′-diacetyl-, F[5]30, 257

endo-Dicyclopentadiene, HB 448
tetrahydro-, HB 439

exo-Dicyclopentadiene, HB 449
tetrahydro-, HB 440

Dicyclopentyl,
2,2′-diacetyl-, F[5]30, 259
DL-3,3′-diketo-, F[5]30, 1284
meso-3,3′-diketo-, F[5]30, 1284
DL-1,1′-dimethyl-3,3′-diketo-, F[5]30, 1285
meso-1,1′-dimethyl-3,3′-diketo-, F[5]30, 1285

Dicyclopropyl ketone, HB 344

Dicyclopropyl ketoxime, V 179

Diethanolamine, ZC 314, 255

Diethyl acetal, J 33, 1609

Diethylamine, HB 282
(+ acetone, acetyl-), CN 36, 797
(+ benzene, 1,3,5-trinitro-), NT 186, 150*
(+ decaborane), IC 1, 623; IC 1, 628
(+ nitric oxide), JA 82, 97
perfluoro-*N*-(trifluoromethyl)-, P 35, 1245

Diethyl disulfide, HB 417

Diethylene glycol
diethyl ether, J 32, 655; J 33, 1611
dimethyl ether, J 32, 655; J 33, 1611

Diethylenetriamine, ZC 314, 255

Diethyl ether, CH 14, 149; HB 151; J 33, 1607; NN [13]7, 414; ZA 170, 184
(+ iodine), irradiated, JA 84, 3809*
irradiated, P 28, 1177*; P 30, 697*
α,α′-bis(2,5-dimethoxy-3,4,6-trimethylphenyl)-, OR 26, 3226

Diethyl ether-t, P 35, 761*

Diethyl formal, J 33, 1608

Diethyl ketal, J 33, 1609

Diethyl ketone, AK 21, 508; HB 155; ZA 170, 184
irradiated, P 30, 697*
dibromo-, SC 16, 2060

Diethyl ketone-C^{13}, JA 84, 39

Diethyl sulfide, HB 412
(+ decaborane), IC 2, 660
(+ decaborane, 2-bromo-), IC 2, 660

Diethyl sulfite, JA 83, 4667

Difluoramino, IC 2, 1312*; P 35, 1482*; P 39, 2394*

2,2-Difluoroethyl pentafluorosulfur oxide, IC 2, 422

Digermane, hexavinyl-, CN 41, 1851

Diglycine, JA 81, 2871

Diglycolic acid monohydrate, irradiated, P 36, 560*

Diiron hexacarbonyl
(+ 1,3,5-cyclooctatriene), IC 2, 809

Diisoamyl ether, J 33, 1607

Diisopropyl ether, J 33, 1607
irradiated, P 30, 697*

Diisopropyl formal, J 33, 1609

Diisopropyl ketone, irradiated, P 30, 697*

Diketene, CA 44, 516; P 34, 1470

Dilithium pentalenide, JA 84, 865

Dimedone,
acetyl-, SC 13, 1388
cinnamoyl-, SC 13, 1389
hydrocinnamoyl-, SC 13, 1389

Dimesityl ketone potassium ketyl, J 35, 1746*

Dimesitylmethyl, P 35, 444*

Dimethyl acetal, J 32, 655; J 33, 1609

Dimethylamine, M 2, 542
(+ diborane), JA 81, 4497

Di-(3-methylbenzyl) ether, HB 233

Dimethyl carbonate, HB 579

Dimethyl 2-chlorovinyl phosphate, OR 26, 3965

Dimethyl disulfide, HB 416
irradiated, P 36, 2228*

Dimethyl ether, SA 19, 1695
irradiated, P 28, 1176*; P 30, 697*

Dimethyl formal, J 33, 1608

Dimethyl sulfate, HB 692

Dimethyl sulfide, HB 411; SA 19, 1695
(+ decaborane), C(1961), 2199; C(1963), 5817; IN 20, 69
(+ decaborane + cyanide), IN 20, 69

Dimethyl sulfoxide, HB 423; SA 19, 1695

Dinactin, H 45, 621

2,2'-Dinaphthyl disulfide
(+ antimony pentachloride), J 36, 308*
pyrolysed, P 39, 936*

Dioctadecyl disulfide, irradiated, P 36, 2228*

Dioctyl disulfide, irradiated, P 36, 2228*

Dioxane, RL A252, 512

1,2-Dioxane,
3,6-bis(hydroperoxy)-3,6-dimethyl-, dibenzoate, BE 96, 2717
3,3,6,6-tetramethyl-, JA 83, 4359

1,4-Dioxane, HB 183; J 33, 1612
2,5-bis(4-phenylthiophenyl)-, H 45, 989
2,3-dichloro-, J 33, 1612
cis-2,3-dichloro-, OR 27, 3186
trans-2,3-dichloro-, OR 27, 3186
cis-2,3-diphenyl-, OR 27, 3185
trans-2,3-diphenyl-, OR 27, 3185

1,2-Diox-4-ene,
3,6-bis(hydroperoxy)-3,6-dimethyl-, BE 96, 2717
dibenzoate, BE 96, 2717

Dioxolane, *trans*-2,2,4,5-tetramethyl-, JA 84, 749

1,3-Dioxolane, HB 181
2-(3-bromo-2-thienyl)-, AK 21, 274
2-(4-bromo-2-thienyl)-, AK 21, 274
2-(4-bromo-3-thienyl)-, AK 21, 274
2-(5-bromo-2-thienyl)-, AK 21, 274
2-lauryl-, OR 27, 3188
2-methyl-, HB 182
2-methyl-2-ethyl-, OR 27, 3188

Dioxolane-5-carboxylic acid, 2,2-dimethyl-, potassium salt, JA 83, 3902

Di-(pentafluorosulfur), IC 1, 218

Diphenan, V 309

2,2'-Diphenic acid, HB 218

Diphenylamine, IS 53A, 280*; J 36, 876*
(+ benzoyl peroxide), O 14, 441*
(+ lead dioxide), IS 53A, 284*
(+ permanganate), IS 53A, 285*
irradiated, O 14, 441*
4-hydroxy-, O 13, 451*

Diphenylcarbinol, JA 85, 3503

Diphenyl disulfide, pyrolysed, P 39, 934*

Diphenylene, CN 38, 504*; CN 40, 829*

Diphenyl ether, HB 231
2,2'-dimethyl-, P 34, 1468

Diphenylmethyl, J 33, 962*

Diphenyl sulfoxide, HB 425; HB 694

Diphosphine, FS 57, 891
P,P'-dimethyl-*P,P'*-diethyl-, IN 24, 276
monosulfide, IN 24, 279
P,P'-dimethyl-*P,P'*-diphenyl-, IN 24, 276
tetramethyl-, monosulfide, IN 24, 279

Diphosphite, F[5]28, 1457

Diphosphopyridine nucleotide, CN 41, 893; NT 197, 183
(+ diphosphopyridine nucleotide-coenzyme Q reductase), B 237, 1678*

(+ yeast alcohol dehydrogenase), NT 197, 183

Diphosphopyridine nucleotide-coenzyme Q reductase, B 237, 1678*
(+ diphosphopyridine nucleotide), B 237, 1678*

Diphosphopyridine nucleotide dehydrogenase, NT 196, 434*

Diphosphorus thionitride pentachloride, ZC 320, 66

Dipropylammonium hexafluorotitanate
(+ titanium tetrafluoride), IC 2, 1003

Dipropylene glycol, PS 41, 534

Dipropyl ether, HB 152
irradiated, P 30, 697*

Dipterocarpol, F[5]29, 1833

Dipyridyl
(+ copper + sulfate), P 35, 763*

4,4'-Dipyridyl, P 36, 2783*

4,4'-Dipyridyl-d, P 36, 2784*

Discophoridin, AU 16, 144

2,6-Disilamorpholine,
N-diethylenetriamino-, ZC 314, 254
N-ethanolamino-, ZC 314, 254
N-ethylenediamino-, ZC 314, 254

Disiloxane, hexamethyl-, HB 288

Diskatole, OR 26, 2340

Dispiro[5,1,5,3] hexadecane, R 82, 604

Dispiro[5,2,5,2] hexadecane, R 82, 604

Distannane, hexamethyl-, IC 2, 737

1,2-Distearin, C(1963), 136

1,3-Distearin, C(1963), 136

Disulfur decafluoride, C(1962), 3080

1,2-Dithiane, JA 83, 4358
3,3,6,6-tetramethyl-, JA 83, 4359

1,2-Dithiane-4,5-d_4, JA 82, 4428; JA 83, 4358

1,4-Dithiane 1,4-dioxide, AU 16, 919

1,3-Dithiene, 2,2-dibenzyl-4,6-diphenyl-, OR 27, 4489

Dithiocarbamate,
diethyl-
(+ copper), AK 17, 254*; NT 190, 259*; P 36, 3224*; ZP 215, 209*
diisopropyl-
(+ copper), AK 17, 256*; NT 184, 183*
(+ gold), NT 184, 183*
(+ silver), AK 17, 254*; NT 184, 183*

1,2-Dithiol-3-one,
4,5-dimethyl-, F[5]26, 1672
5-methyl-, F[5]26, 1672

Dithionite, H 46, 195*
(+ Azotobacter vinelandii OP), NT 196, 434*
(+ nicotinamide methiodide), TT 3, 75
(+ Nitrosomonas europaea), NT 196, 435*
(+ plasma amine oxidase), NT 198, 1092*
(+ xanthine oxidase), BJ 73, 194

Dithio-*p*-urazine, SC 15, 1576

Dithymoquinone, OR 23, 49

Di-*o*-tolyl ether, P 37, 1564

Djenkolic acid, irradiated, P 36, 1261*; PC 62, 794*

Dodecamethylenimine, ZA 170, 202

Dodecane, 2,6,10-trimethyl-, CC 28, 3369

Dodecyl, O 6, 360*

Dolichol, BJ 88, 475
perhydro-, BJ 88, 475

Dopamine
(+ ceruloplasmin), SC 17, S266*

Dowex-50, PC 67, 1179

Dumortierigenin diacetate, OR 27, 4514

Duoannelic acid, JA 82, 1690

Durene, FD 34, 169; JA 83, 1840
diamino-
(+ chloranil), JA 83, 4507*
dinitro-, P 37, 1157

Durosemiquinone, P 35, 1744*

E

Echinuline-1-d, F[5]30, 1052
hexahydro-, F[5]30, 1053

(+ yeast alcohol dehydrogenase), NT 197, 183

Diphosphopyridine nucleotide-coenzyme Q reductase, B 237, 1678*
(+ diphosphopyridine nucleotide), B 237, 1678*

Diphosphopyridine nucleotide dehydrogenase, NT 196, 434*

Diphosphorus thionitride pentachloride, ZC 320, 66

Dipropylammonium hexafluorotitanate
(+ titanium tetrafluoride), IC 2, 1003

Dipropylene glycol, PS 41, 534

Dipropyl ether, HB 152
irradiated, P 30, 697*

Dipterocarpol, F[5]29, 1833

Dipyridyl
(+ copper + sulfate), P 35, 763*

4,4'-Dipyridyl, P 36, 2783*

4,4'-Dipyridyl-d, P 36, 2784*

Discophoridin, AU 16, 144

2,6-Disilamorpholine,
N-diethylenetriamino-, ZC 314, 254
N-ethanolamino-, ZC 314, 254
N-ethylenediamino-, ZC 314, 254

Disiloxane, hexamethyl-, HB 288

Diskatole, OR 26, 2340

Dispiro[5,1,5,3] hexadecane, R 82, 604

Dispiro[5,2,5,2] hexadecane, R 82, 604

Distannane, hexamethyl-, IC 2, 737

1,2-Distearin, C(1963), 136

1,3-Distearin, C(1963), 136

Disulfur decafluoride, C(1962), 3080

1,2-Dithiane, JA 83, 4358
3,3,6,6-tetramethyl-, JA 83, 4359

1,2-Dithiane-4,5-d_4, JA 82, 4428; JA 83, 4358

1,4-Dithiane 1,4-dioxide, AU 16, 919

1,3-Dithiene, 2,2-dibenzyl-4,6-diphenyl-, OR 27, 4489

Dithiocarbamate,
diethyl-
(+ copper), AK 17, 254*; NT 190, 259*; P 36, 3224*; ZP 215, 209*
diisopropyl-
(+ copper), AK 17, 256*; NT 184, 183*
(+ gold), NT 184, 183*
(+ silver), AK 17, 254*; NT 184, 183*

1,2-Dithiol-3-one,
4,5-dimethyl-, F[5]26, 1672
5-methyl-, F[5]26, 1672

Dithionite, H 46, 195*
(+ Azotobacter vinelandii OP), NT 196, 434*
(+ nicotinamide methiodide), TT 3, 75
(+ Nitrosomonas europaea), NT 196, 435*
(+ plasma amine oxidase), NT 198, 1092*
(+ xanthine oxidase), BJ 73, 194

Dithio-*p*-urazine, SC 15, 1576

Dithymoquinone, OR 23, 49

Di-*o*-tolyl ether, P 37, 1564

Djenkolic acid, irradiated, P 36, 1261*; PC 62, 794*

Dodecamethylenimine, ZA 170, 202

Dodecane, 2,6,10-trimethyl-, CC 28, 3369

Dodecyl, O 6, 360*

Dolichol, BJ 88, 475
perhydro-, BJ 88, 475

Dopamine
(+ ceruloplasmin), SC 17, S266*

Dowex-50, PC 67, 1179

Dumortierigenin diacetate, OR 27, 4514

Duoannelic acid, JA 82, 1690

Durene, FD 34, 169; JA 83, 1840
diamino-
(+ chloranil), JA 83, 4507*
dinitro-, P 37, 1157

Durosemiquinone, P 35, 1744*

E

Echinuline-1-d, F[5]30, 1052
hexahydro-, F[5]30, 1053

Edulin, OR 26, 5016

Eicosaborane, JA 85, 3505

Eicosane, 2-phenyl-, HB 461

Elatericin A diacetate, OR 28, 1791

Elatericin B, dihydro-, OR 28, 1793

α-Elemene, TT 18, 1511

Ellagic acid
  benzylated, JA 81, 4622
  O-tetrabenzyl-5,5′-di-*C*-benzyl-, JA 81, 4618
  O-tetramethyl-5,5′-di-*C*-benzyl-, JA 81, 4618

Ellagorubin, JA 81, 4618
  diacetate, JA 81, 4618
  dimethyl ether, JA 81, 4618

Ellipticine, methoxy-, JA 81, 1905

Eosin semiquinone, O 7, 71*

Epiandrosterone, JA 80, 5125

Epibromohydrin, J 33, 1612

Epicamphor,
  2-*endo*-*p*-anisyl-, JA 85, 3215
  2-*exo*-*p*-anisyl-, JA 85, 3215

Epidithio-2,4-heptadien-6-one, N 625, 45

Epidithio-1,3-pentadien-5-al, N 625, 45

Epigalbacin, dehydro-, OR 28, 1640

Epigriseofulvin, JA 85, 627; TT 19, 8

Epi-inositol, JA 81, 1607

13-Epimanoyl oxide, TT 18, 173
  12α-hydroxy-, TT 18, 172

1-Epinupharidine, deoxy-, J 35, 1496

cis-2,3-Epithiobutane, HB 658

trans-2,3-Epithiobutane, HB 659

3,4-Epithio-1-butene, HB 660

4,7,22-Ergostatrien-3-one, JA 84, 205

Ergosteryl acetate, 5,6-dihydro-, JA 80, 5127

L-Erythritol, 2,4-di-*O*-acetyl-1,3-*O*-benzylidine-, C(1961), 5008

Erythrodiol diacetate, OR 27, 4517

Erythromycin, BE 96, 2868

Erythronolide,
  desosaminyldihydro-, BE 96, 2868
  dihydro-, BE 96, 2868

Erythropterin methyl ester, H 46, 2595

Escherischia coli, NT 196, 434*

Eserine, V 319

Estradiol
  3-methyl ether 17-acetate, JA 84, 2976
  17α-ethynyl-, V 343
  1-methyl-11-keto-, 3,17-diacetate, BE 96, 2149

Estranic acid, 3β-hydroxy-, methyl ester, V 354

Estriol
  3,16-diacetate, JA 84, 2976
  3-methyl ether 16,17-diacetate, JA 84, 2976
  triacetate, JA 84, 2976

Estrone
  methyl ether, C(1963), 5541
  6α,7α-dichloro-, methyl ether, JA 85, 2857
  6β,7α-dichloro-, methyl ether, JA 85, 2857
  1-methyl-, acetate, V 350

Ethane, P 39, 2158*
  irradiated, P 28, 1172*; P 33, 936*
  bis(2-methylphenyl)-, HB 463
  1-bromo-1,1-difluoro-, M 7, 394
  1-bromo-2,2,2-trifluoro-, M 7, 394
  1-chloro-2-bromo-, V 5
  1-chloro-1,1-difluoro-, M 7, 394
  1-chloro-2,2,2-trifluoro-, M 7, 394
  1,2-dibenzyloxy-, HB 234
  1,2-dibromo-, RL A252, 512
    irradiated, CN 38, 693*
  1,2-dibromo-1-chloro-1,2,2-trifluoro-, P 39, 3132
  1,2-dibromo-1,2-dichloro-1,2-difluoro-, P 37, 412
  1,2-dibromo-1,1,2-trifluoro-, FD 34, 140
  1,2-dichloro-, HB 384; RL A252, 512
  1,1-dichloro-1,2,2,2-tetrafluoro-, PC 63, 1702
  1,2-dichloro-1,1,2,2-tetrafluoro-, PC 63, 1702
  1,1-difluoro-, M 7, 394; P 37, 2910
  1,1-difluoro-1,2-dibromo-2-phenyl-, JA 83, 247
  1,2-difluoro-1,1,2,2-tetrachloro-, G 75, 25
  1,1-difluoro-1,2,2-tribromo-2-phenyl-, JA 83, 247
  1,2-dimethoxy-, HB 631
  1,2-diphenyl-, HB 96
  1-naphthyl-2,2-diphenyl-, HB 468
  pentafluoro-, M 7, 316; M 7, 394

1,1,2,2-tetrabromo-, P 39, 807
1,1,1,2-tetrafluoro-, M 7, 318; M 7, 394; P 36, 1946
1,1,2,2-tetrafluoro-, M 7, 319; M 7, 394
1,1,2-tribromo-, NN[13] 7, 414
1,1,2-trichloro-, CH 13, 13; CH 17, 180; V 2
1,1,1-trifluoro-, M 7, 394
1,1,2-trifluoro-1-bromo-2-chloro-, FS 54, 309
1,1,2-trifluoro-1,2,2-tribromo-, JA 84, 1306

Ethane-$C^{12}C^{12}$, RL A269, 394

Ethane-$C^{12}C^{13}$, RL A269, 395
1,2-dibromo-1,1,2,2-tetrafluoro-, FS 59, 612
1,2-dichloro-1,1,2,2-tetrafluoro-, FS 59, 612

Ethane-C^{13}, CN 41, 2117

Ethane-$C^{13}C^{13}$, RL A269, 396

Ethane-d, P 39, 2159*

Ethanesulfenyl chloride,
1,1,2,2-tetrafluoro-, JA 85, 750
1,1,2-trifluoro-, JA 85, 750

Ethanethiol, HB 405
2-bromo-1,1,2-trifluoro-, JA 85, 750
2-chloro-1,1,2-trifluoro-, JA 85, 750
2,2-difluoro-, JA 85, 750
2-methoxy-1,1,2-trifluoro-, JA 85, 750
1,1,2,2-tetrafluoro-, JA 85, 750
1,1,2-trifluoro-, JA 85, 750
1,2,2-trifluoro-, JA 85, 751

9,10-Ethanoanthracene, 11-acetoxy-9,10-dihydro-, CH 17, 183

Ethanol, AC 31, 59; C(1959), 273*; C(1962), 849; CA 45, 4; CH 13, 10; CH 13, 21; CH 14, 148; CN 41, 311; CN 41, 719; F[5]25, 1635; F[5]27, 1879; F[5]29, 3; FD 34, 106; FD 34, 166; FS 54, 1314*; HB 125; JA 85, 3066; M 2, 3; P 30, 1541; P 31, 1429; P 34, 2207; RL A255, 11; SA 14, 13; SA 14, 30; SC 14, 231; V 14; ZA 164, 130; ZA 170, 184
(+ boron trifluoroide), IN 8, 470
(+ iodine), irradiated, JA 84, 3808*
(+ titanium + hydrogen peroxide), C (1963), 3121*
(+ titanium tetrafluoride), JA 82, 1083
irradiated, NT 200, 60*; P 28, 1177*; P 30, 41*; P 30, 697*
thallium salt, FD 34, 152
2-benzyloxy-, HB 219
2-chloro-, HB 524; V 12
2-dimethylamino-, V 91
1,2-diphenyl-, HB 547
2-ethoxy-, HB 527
(+ hydrochloric acid), HB 528
2-ethylamino-, V 92
1-(4-fluorophenyl)-, V 200
2,2,2-trifluoro-, V 4
2-trimethylsilyl-, IT 88, 1271

Ethanol-d, irradiated, P 30, 41*

Ethanol-1-d_1, irradiated, P 30, 41*

Ethanol-t, P 35, 760*

D-Ethanol-1-d, CN 41, 311

Ethanolamine, ZC 314, 255
N-methyl-, ZC 314, 255

Ethanol-water azeotrope, CN 41, 311

Ethyl, P 37, 749*

Ethylal, J 32, 655

Ethylamine,
N-acetyl-2-phenyl-, V 265
2-mercapto-, irradiated, NT 183, 540*

Ethyl bromide, M 7, 311; V 10
irradiated, CN 38, 692*; FS 58, 1481*; P 36, 1095*

Ethyl 2-bromoethyl ether, J 33, 1608

Ethyl carbonate, HB 147

Ethyl chloride, V 11
irradiated, FS 58, 1481*

Ethyl cyanide, P 29, 1106; ZA 170, 184

Ethyl 1,2-dichloroethyl ether, J 33, 1608; V 75

Ethylene, M 8, 476; P 39, 2160*
(+ hydrogen bromide), irradiated, CN 38, 692*
(+ platinum + chloride), C (1960), 2521; C(1963), 4911; CN 38, 738
(+ tetraborane-8 carbonyl), IC 2, 1143
irradiated, CN 38, 691*
monothiocarbonate, CR 60, 396
chlorotrifluoro-
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150
(+ methanethiol, trifluoro-), JA 83, 843
1,1-di-*p*-anisyl-, CN 37, 1408
cis-1,2-dichloro-, HB 388
irradiated, P 28, 1178*
trans-1,2-dichloro-, HB 389
1,1-difluoro-, CH 17, 180; P 38, 229
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150
(+ methanethiol, trifluoro-), JA 83, 843
cis-1,2-difluoro-, JA 85, 1011; P 38, 2296
trans-1,2-difluoro-, P 38, 2296

1,1-diphenyl-, J 32, 100*; J 33, 958*; PC 64, 1556
1-(4-hydroxy-3,5-dimethoxyphenyl)-2-cyano-2-phenyl-, N 645, 61*
tetracyano-, NT 195, 262*
(+ cyclobutane, dihydrotetramethylene-), JA 85, 2270
(+ cyclobutane, tetramethylene-), JA 85, 2270
(+ poly[methacrylic acid]), irradiated, NT 195, 262*
(+ triethylenediamine), JA 85, 2560*
sodium salt, P 33, 627*
tetrafluoro-
(+ methanethiol, trifluoro-), JA 83, 843
irradiated, PC 66, 2674*
tetramethyl-, oxide, HB 333
tetraphenyl-
(+ sodium), C (1963), 3957*
trichloro-, HB 390
1,1,2-tricyano-2-phenyl-
(+ nickel), BE 95, 2761*
trifluoro-
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150
(+ methanethiol, trifluoro-), JA 83, 843
1,1,2-trifluoro-3-bromo-, P 36, 1945

Ethylene-d_1, M 8, 477

Ethylene-$C^{12}C^{12}$, RL A269, 391

Ethylene-$C^{12}C^{13}$, RL A269, 391

Ethylene-$C^{13}C^{13}$, RL A269, 393

Ethylene-C^{13}, CN 41, 2117

Ethylene-acetic acid vinyl ester copolymer, AC 35, 1949

Ethylene-acrylic acid ethyl ester copolymer, AC 35, 1949

Ethylenebis (β-aminocrotonic acid diethyl ester), JA 83, 2102

Ethylenebis (β-aminocrotonic acid diethyl ester)-d_1, JA 83, 2102

Ethylene, tetrafluoro-hexafluoropropylene copolymer, irradiated, NB 65A, 380*

Ethylenediamine, ZC 314, 255
(+ cobalt), FD 34, 92
(+ copper + nitrate), CP 60, 370*
(+ copper + sulfate), P 39, 1141*
(+ nickel), FD 34, 91
(+ palladium), C (1959), 794
(+ zinc), C (1959), 794
N,N'-bis (1-methyl-2-carbethoxyvinyl)-, TT 18, 805
N,N'-bis (trimethylsilyl)-, F [5] 30, 1362; PC 67, 99
N,N,N'-tris (trimethylsilyl)-, PC 67, 99

Ethylenediaminetetraacetic acid, JA 85, 2931
(+ calcium), JA 85, 2932
(+ copper), B 238, 2340
(+ Nitrosomonas europaea), NT 196, 435*
disodium salt
(+ nickel), FD 34, 94
tetrasodium salt
(+ nickel), FD 34, 94

Ethylene dichloride, irradiated, P 28, 1178*

Ethylene glycol, HB 529
(+ methanol), PC 67, 1668
irradiated, P 30, 697*
dimethyl ether, J 32, 655; J 33, 1610

Ethylene oxide, H 41, 37; M 5, 200; RL A252, 512
(+ phenol), AC 35, 1283

Ethylene oxide-propylene oxide copolymer, AC 35, 1283

Ethylene sulfide, M 5, 200

Ethylene sulfite, JA 83, 2106

Ethylenimine, M 5, 200

Ethyl fluoride, JA 83, 4473; M 7, 315; M 7, 394

Ethylidenediphosphonic acid, 1-hydroxy-, tetraethyl ester, JA 84, 1877

Ethyl iodide, CR 60, 402; JA 81, 764*; V 13; Z 34, 262
irradiated, JA 85, 3732*; P 34, 1166*

Ethyl isocyanate,
1-butoxy-, OR 28, 2083
1-butoxy-1-methyl-, OR 28, 2083
1-ethoxyethyl-, OR 28, 2083
1-(2-methacryloxyethoxy)-, OR 28, 2083
1-(2-methoxyethoxy)-, OR 28, 2083

Ethyl mercaptan, P 33, 731; SC 13, 1472

Ethyl nitrite, P 30, 904

Ethyl pentafluorosulfate,
fluoro-, IC 1, 217
fluorochloro-, IC 1, 218
fluorotetrachloro-, IC 1, 218
pentafluoro-, IC 1, 218

Ethyl sulfide, P 30, 1589

Ethyl vinyl ether
(+ formamide, *N*,*N*-dimethyl- + phosgene), F[5]30, 1643
(+ formamide, *N*,*N*-dimethyl- + phosphoryl chloride), F[5]30, 1643

Etianic acid methyl ester, JA 82, 1699

5β-Etianic acid,
3β-acetoxy-8,14α-epoxy-, methyl ester, H 46, 396
3β-acetoxy-8,14β-epoxy-, methyl ester, H 46, 396
3β-acetoxy-14,15α-epoxy-, methyl ester, H 46, 394
3β-acetoxy-14,15β-epoxy-, methyl ester, H 46, 395

5β,17αH-1-Etienic acid, 3-keto-11α,19-diacetoxy-, methyl ester, H 46, 227

5β-8,14-Etienic acid, 3β-acetoxy-, methyl ester, H 46, 395

5β-14-Etienic acid, 3β-acetoxy-, methyl ester, H 46, 394

Etiocholanolone, B 237, 3360
18-hydroxy-, B 237, 3360

3α-Etiocholanol-17-one, JA 80, 5125

Etioporphyrin, *meso*-monomethyl-, C(1963), 858

Etioporphyrin I
(+ vanadium), AC 33, 502*

Etioporphyrin II, OR 28, 269
N-ethyl-, OR 28, 269
N-methyl-, OR 28, 269

Eucalyptol, V 280

Eugenol, V 260

F

Fabianine, CN 40, 258

Farnesane, CC 28, 3369

cis,*cis*-Farnesol, OR 28, 1087

cis,*trans*-Farnesol, JA 82, 5750; OR 28, 1087

trans,*cis*-Farnesol, OR 28, 1087

trans,*trans*-Farnesol, JA 82, 5750; OR 28, 1087

Feather quills, irradiated, NT 193, 366*; NT 195, 493*

Fenchone, HB 170

Ferricrocin, desferri-, H 46, 1910

Ferricyanide
(+ Azotobacter vinelandii OP), NT 196, 434*

Ferricytochrome c, B 237, 1813

Ferrimyeloperoxidase, AK 19, 125*

Ferrimyoglobin, AK 19, 121*; SC 15, 1076*
azide, AK 19, 124*

Ferrocene,
acetyl-, JA 85, 703
1,1′;4,4′-bis(tetramethylene)-, JA 85, 319
1,1′-di-(1-cyclopentenyl)-, JA 82, 4111
β,β-dimethyl-1,1′-tetramethylene-, JA 85, 319
β-keto-1,1′-tetramethylene-, enol acetate, JA 85, 319
α-keto-1,1′-trimethylene-, enol acetate, JA 85, 319
4-nitrophenyl-, V 321
1,1′-tetramethylene-, JA 85, 319
1,1′-(tetramethylethylene)-, JA 82, 4111
1,1′-trimethylene-, JA 85, 319

Ferrocytochrome c, B 237, 1813

Ferromyoglobin, AK 19, 121*

Ferruginol, 9-keto-, SC 14, 557

Filicinic acid, *O*-methyl-3-acetyl-, SC 13, 1390

Flavanone, 6,7-dimethoxy-, F[5]29, 1966

Flavensomicinic acid, dihydro-, IT 91, 1323

Flavin adenine dinucleotide, AK 19, 111*

Flavin adenosine dinucleotide, SC 14, 766*

Flavin mononucleotide, AK 19, 101*; BJ 85, 377*; SC 14, 766*

Flavin mononucleotide semiquinone, SC 17, S189*

Flavone,
5-hydroxy-7-methoxy-, F[5]29, 1963
3-methyl-5,6,7-trimethoxy-, F[5]29, 1969

Flindersamine, V 304

Flindersine, *N*-methyldihydro-, AU 16, 482

Fluoborate
(+ cobalt + ammonia), P 29, 211

Ethyl vinyl ether
(+ formamide, *N*,*N*-dimethyl- + phosgene), F[5]30, 1643
(+ formamide, *N*,*N*-dimethyl- + phosphoryl chloride), F[5]30, 1643

Etianic acid methyl ester, JA 82, 1699

5β-Etianic acid,
3β-acetoxy-8,14α-epoxy-, methyl ester, H 46, 396
3β-acetoxy-8,14β-epoxy-, methyl ester, H 46, 396
3β-acetoxy-14,15α-epoxy-, methyl ester, H 46, 394
3β-acetoxy-14,15β-epoxy-, methyl ester, H 46, 395

5β,17αH-1-Etienic acid, 3-keto-11α,19-diacetoxy-, methyl ester, H 46, 227

5β-8,14-Etienic acid, 3β-acetoxy-, methyl ester, H 46, 395

5β-14-Etienic acid, 3β-acetoxy-, methyl ester, H 46, 394

Etiocholanolone, B 237, 3360
18-hydroxy-, B 237, 3360

3α-Etiocholanol-17-one, JA 80, 5125

Etioporphyrin, *meso*-monomethyl-, C(1963), 858

Etioporphyrin I
(+ vanadium), AC 33, 502*

Etioporphyrin II, OR 28, 269
N-ethyl-, OR 28, 269
N-methyl-, OR 28, 269

Eucalyptol, V 280

Eugenol, V 260

F

Fabianine, CN 40, 258

Farnesane, CC 28, 3369

cis,*cis*-Farnesol, OR 28, 1087

cis,*trans*-Farnesol, JA 82, 5750; OR 28, 1087

trans,*cis*-Farnesol, OR 28, 1087

trans,*trans*-Farnesol, JA 82, 5750; OR 28, 1087

Feather quills, irradiated, NT 193, 366*; NT 195, 493*

Fenchone, HB 170

Ferricrocin, desferri-, H 46, 1910

Ferricyanide
(+ Azotobacter vinelandii OP), NT 196, 434*

Ferricytochrome c, B 237, 1813

Ferrimyeloperoxidase, AK 19, 125*

Ferrimyoglobin, AK 19, 121*; SC 15, 1076*
azide, AK 19, 124*

Ferrocene,
acetyl-, JA 85, 703
1,1′;4,4′-bis(tetramethylene)-, JA 85, 319
1,1′-di-(1-cyclopentenyl)-, JA 82, 4111
β,β-dimethyl-1,1′-tetramethylene-, JA 85, 319
β-keto-1,1′-tetramethylene-, enol acetate, JA 85, 319
α-keto-1,1′-trimethylene-, enol acetate, JA 85, 319
4-nitrophenyl-, V 321
1,1′-tetramethylene-, JA 85, 319
1,1′-(tetramethylethylene)-, JA 82, 4111
1,1′-trimethylene-, JA 85, 319

Ferrocytochrome c, B 237, 1813

Ferromyoglobin, AK 19, 121*

Ferruginol, 9-keto-, SC 14, 557

Filicinic acid, *O*-methyl-3-acetyl-, SC 13, 1390

Flavanone, 6,7-dimethoxy-, F[5]29, 1966

Flavensomicinic acid, dihydro-, IT 91, 1323

Flavin adenine dinucleotide, AK 19, 111*

Flavin adenosine dinucleotide, SC 14, 766*

Flavin mononucleotide, AK 19, 101*; BJ 85, 377*; SC 14, 766*

Flavin mononucleotide semiquinone, SC 17, S189*

Flavone,
5-hydroxy-7-methoxy-, F[5]29, 1963
3-methyl-5,6,7-trimethoxy-, F[5]29, 1969

Flindersamine, V 304

Flindersine, *N*-methyldihydro-, AU 16, 482

Fluoborate
(+ cobalt + ammonia), P 29, 211

Fluoferrate, P 31, 173*; P 32, 303*

Fluoral hydrate, CN 41, 1024

Fluoranil semiquinone, NT 193, 1067*

Fluoranthene, HB 110; JA 80, 4555*; JA 83, 1840

Fluorene, CN 39, 858; HB 108
9-methyl-10-acetyl-9-hydroxy-dodecahydro-, F[5]30, 266

Fluorene-9-d_1, CN 39, 858

4aH-Fluorene, 4a-methyl-1,3,9-triphenyl-, OR 28, 297

Fluorenone ketyl, C(1963), 5415*; P 39, 1795*

Fluoride, P 29, 947
(+ chromium), P 35, 1350*
(+ cobalt), P 32, 554
(+ iron), P 31, 173*; P 32, 303*
(+ manganese), P 35, 1351*
(+ niobium), JA 85, 3035
(+ titanium), IC 2, 1003

Fluoroalkyl, O 8, 427*

Formaldehyde,
irradiated, CP 58, 528*; CP 59, 792*
2,4-dinitrophenylhydrazone, JA 85, 2787
2,4-dinitrophenylhydrazone-*N*-d, JA 85, 2787

Formaldehyde glass, irradiated, C(1962), 240*

Formamide, CH 14, 150; CN 41, 153; CR 63, 102; FS 57, 1250; HB 269; M 2, 68
(+ hydrochloric acid), HB 270
N,N-diethyl-, HB 277
N,N-dimethyl-, AK 16, 374; CH 14, 150; CN 41, 154; CR 63, 104; F[5]30, 1640; HB 274; JA 82, 4479; M 8, 370; P 32, 1272; V 39
(+ decaborane), C(1961), 2199
(+ phosgene), F[5]30, 1640
(+ phosgene + ethyl vinyl ether), F[5]30, 1643
(+ phosphoryl chloride), F[5]30, 1640
(+ phosphoryl chloride + ethyl vinyl ether), F[5]30, 1643
N,N-diphenyl-, HB 279
N-(2-hydroxyethyl)-, HB 275
N-methyl-, AK 16, 376; CR 63, 103; HB 271; JA 82, 4481; M 8, 366; P 32, 1272; P 33, 1797
N-methyl-*N*-butyl-, JA 85, 3730

Formamide-C-d_1, M 2, 70

Formamide-C-d_1-N^{15}, CN 38, 683

Formamide-*N*-d_1, M 2, 71

Formamide-*N*-d_2, M 2, 71

Formamide-N^{15}, CN 38, 684

Formamidium perchlorate, tetramethyl-, ZP 224, 67

Formic acid, CP 60, 1018; HB 114; J 31, 781
(+ 1-butene-3,4-diol), HB 533
irradiated, JA 83, 1037*; P 30, 697*
barium salt, irradiated, C(1962), 2875*
methyl ester, HB 578; V 9

Formic acid-d, irradiated, JA 83, 1037*

Formic acid-d_1, J 31, 781

Formic acid-d_2, irradiated, JA 83, 1037*

Formyl, P 36, 1662*

Formyl-d_1, P 36, 1662*

Franklinone, TT 16, 208

β-D-Fructopyranose pentaacetate, JA 80, 6102

D-Fructose, irradiated, P 35, 2145*; PC 67, 967*

Fulvene,
dimethyl-
(+ acetone), TT 19, 1410
6-ethyl-, H 45, 1407
6-methyl-6-hydroxy-2-phenylazo-, JA 84, 1590
6-vinyl-, H 46, 1763

Fulvine, AU 16, 240

Fulvinic acid, AU 16, 242

Fulvoplumierin, H 45, 1407

Fumaric acid,
irradiated, C(1963), 3521*
diethyl ester, V 213
dihydroxy-
(+ hydrogen peroxide + peroxidase), B 235, 2448*

Fungal laccase, NT 183, 322*

2-Furaldehyde, HB 180

Furan, CN 37, 1057; CN 39, 222; HB 178; JA 84, 584; P 38, 479; PC 65, 1540; V 50
(+ dibenzyl ketone, α-chloro- + 2,6-lutidine), JA 84, 4980
2-acetyl-5-methyl-, V 165
2-aminomethyl-, FS 55, 519
2,5-bis (*t*-butylperoxy)-2,5-dimethyldihydro-, BE 96, 2717

2,5-bis(hydroperoxy)-2,5-dimethyldihydro-, dibenzoate, BE 96, 2717
3-cyano-, AK 19, 486
cis-3,4-dihydroxytetrahydro-, CN 41, 2406
(+ borate), CN 41, 2406
2,5-dimethyl-, HB 179; PC 65, 1541
3-ketotetrahydro-, R 82, 654
2-keto-3,3,5-trimethyl-, V 175
3-methoxy-, AK 19, 487
2-methyl-, AK 19, 488; CN 37, 1058; HB 342; PC 65, 1540
3-methyl-, AK 19, 489
2-methyldihydro-, F[5]30, 2623
2-methylthio-, AK 19, 486
3-methylthio-, AK 19, 487
2-nitro-, CN 39, 907
2-propionyl-5-methyl-, V 206
tetrahydro-, HB 177; J 33, 1611; TT 18, 808; V 77
(+ benzene, nitro-), P 38, 2588*
tetrahydro-2-methyl-, J 33, 1611
2-thiocyano-, AK 19, 486

Furan-d_8, tetrahydro-
(+ benzene, nitro-), P 38, 2588*

Furan-2-acrolein, CN 39, 907; CN 40, 1681

Furan-2-aldehyde, M 11, 457; V 95

Furan-3-aldehyde, AK 19, 488; M 11, 457

Furan-2-carboxylic acid methyl ester, AK 19, 485

Furan-3-carboxylic acid methyl ester, AK 19, 485

3,4-Furandione, tetrahydro-, JA 82, 3219

2-Furanmethanethiol, CN 39, 906

Furazan, dimethyl-, ZA 181, 453

2-Furenid-4-one, 2-dimethylaminomethyl-5-methyl-, H 46, 1266

Furfural, AK 19, 487; CN 37, 1060; FS 55, 519; SC 13, 1689

Furfurol, CN 37, 1057

2-Furfurol, CN 39, 220

Furfuryl acetate, V 167

Furfuryl alcohol, V 102

Furfurylamine, FS 55, 519; V 104

Furfuryl mercaptan, V 101

5H-Furo[4,3,2-fg][3]benzazocine, 6-[2′,3′-bis(methoxycarbonyl)-4′-methoxyphenyl]-10-methoxy-5-methyl-3,4,6,7-tetrahydro-, JA 85, 1638

6H-Furo[2,3-g][1]benzopyran-6-one, 2,8-dimethyl-, OR 27, 2569

7H-Furo[3,2-f][1]benzopyran-7-one, 2,9-dimethyl-, OR 27, 2569

2-Furoic acid, CR 63, 97; FS 55, 519
methyl ester, V 125
5-bromomethyl-, ethyl ester, PC 67, 2842
5-methyl-, ethyl ester, PC 67, 2842

Furoin, V 247

Furoxan, dimethyl-, ZA 181, 453

Futronolide, TT 19, 639

G

Gadolinium, PY 32, 338S*; SD 6, 319*

Gadolinium hexaboride, SD 24, 941

α-D-Galactose pentaacetate, C(1963), 1540; JA 80, 6101

β-D-Galactose pentaacetate, C(1963), 1540; JA 80, 6101

Galacturonic acid, irradiated, NT 193, 1061*

Galcatin, C(1963), 1447; F[5]30, 1008

Gallium
(+ acetone, trifluoroacetyl-), JA 85, 503
(+ cobalt + perchlorate), P 32, 554
triethyl-, JA 81, 3827; JA 82, 5985

Gallium antimonide, SD 11, 258

Gallium-chromium, S 135, 903*

α-Gallium oxide, P 39, 2390

Gallium phosphide, SD 21, 212

Gallocyanine, irradiated, C(1962), 2056*

Galvinoxyl, SC 17, 2282*

Geijerene, C(1961), 2288

Geissolosimine, OR 27, 2983

Gelatin, irradiated, NT 183, 831*

Genipin, OR 26, 1193
10-deoxy-7,8-dihydro-, OR 26, 1193

2,5-bis(hydroperoxy)-2,5-dimethyldihydro-, dibenzoate, BE 96, 2717
3-cyano-, AK 19, 486
cis-3,4-dihydroxytetrahydro-, CN 41, 2406
(+ borate), CN 41, 2406
2,5-dimethyl-, HB 179; PC 65, 1541
3-ketotetrahydro-, R 82, 654
2-keto-3,3,5-trimethyl-, V 175
3-methoxy-, AK 19, 487
2-methyl-, AK 19, 488; CN 37, 1058; HB 342; PC 65, 1540
3-methyl-, AK 19, 489
2-methyldihydro-, F[5]30, 2623
2-methylthio-, AK 19, 486
3-methylthio-, AK 19, 487
2-nitro-, CN 39, 907
2-propionyl-5-methyl-, V 206
tetrahydro-, HB 177; J 33, 1611; TT 18, 808; V 77
(+ benzene, nitro-), P 38, 2588*
tetrahydro-2-methyl-, J 33, 1611
2-thiocyano-, AK 19, 486

Furan-d_8, tetrahydro-
(+ benzene, nitro-), P 38, 2588*

Furan-2-acrolein, CN 39, 907; CN 40, 1681

Furan-2-aldehyde, M 11, 457; V 95

Furan-3-aldehyde, AK 19, 488; M 11, 457

Furan-2-carboxylic acid methyl ester, AK 19, 485

Furan-3-carboxylic acid methyl ester, AK 19, 485

3,4-Furandione, tetrahydro-, JA 82, 3219

2-Furanmethanethiol, CN 39, 906

Furazan, dimethyl-, ZA 181, 453

2-Furenid-4-one, 2-dimethylaminomethyl-5-methyl-, H 46, 1266

Furfural, AK 19, 487; CN 37, 1060; FS 55, 519; SC 13, 1689

Furfurol, CN 37, 1057

2-Furfurol, CN 39, 220

Furfuryl acetate, V 167

Furfuryl alcohol, V 102

Furfurylamine, FS 55, 519; V 104

Furfuryl mercaptan, V 101

5H-Furo[4,3,2-fg][3]benzazocine, 6-[2′,3′-bis(methoxycarbonyl)-4′-methoxyphenyl]-10-methoxy-5-methyl-3,4,6,7-tetrahydro-, JA 85, 1638

6H-Furo[2,3-g][1]benzopyran-6-one, 2,8-dimethyl-, OR 27, 2569

7H-Furo[3,2-f][1]benzopyran-7-one, 2,9-dimethyl-, OR 27, 2569

2-Furoic acid, CR 63, 97; FS 55, 519
methyl ester, V 125
5-bromomethyl-, ethyl ester, PC 67, 2842
5-methyl-, ethyl ester, PC 67, 2842

Furoin, V 247

Furoxan, dimethyl-, ZA 181, 453

Futronolide, TT 19, 639

G

Gadolinium, PY 32, 338S*; SD 6, 319*

Gadolinium hexaboride, SD 24, 941

α-D-Galactose pentaacetate, C(1963), 1540; JA 80, 6101

β-D-Galactose pentaacetate, C(1963), 1540; JA 80, 6101

Galacturonic acid, irradiated, NT 193, 1061*

Galcatin, C(1963), 1447; F[5]30, 1008

Gallium
(+ acetone, trifluoroacetyl-), JA 85, 503
(+ cobalt + perchlorate), P 32, 554
triethyl-, JA 81, 3827; JA 82, 5985

Gallium antimonide, SD 11, 258

Gallium-chromium, S 135, 903*

α-Gallium oxide, P 39, 2390

Gallium phosphide, SD 21, 212

Gallocyanine, irradiated, C(1962), 2056*

Galvinoxyl, SC 17, 2282*

Geijerene, C(1961), 2288

Geissolosimine, OR 27, 2983

Gelatin, irradiated, NT 183, 831*

Genipin, OR 26, 1193
10-deoxy-7,8-dihydro-, OR 26, 1193

Gentianin, AK 21, 94; F[5]30, 1303

Geranic acid,
2-*cis*-4-*trans*-dehydro-, methyl ester, ZA 181, 450
all-*trans*-dehydro-, methyl ester, ZA 181, 450

Geraniol, V 279

Germane,
phenyltrimethyl-, FS 59, 55*
tetraethyl-, JA 82, 5984
vinyltriphenyl-, P 38, 285

Gibberellic acid
methyl ester, C(1960), 3042
acetyl-, methyl ester, C(1960), 3042; CH 14, 151
acetyltetrahydro-, methyl ester, C(1960), 3042
tetrahydro-, methyl ester, C(1960), 3042

Glass, GL 1, 157; GL 4, 41; GL 4, 50; NT 188, 1104; O 14, 371*; P 29, 986; P 32, 671*; P 32, 960;
irradiated, C(1959), 955*; GL 3, 38*; P 35, 848*; P 39, 2864*

Globicin, CC 28, 1205

Glucanol, F[5]29, 1256
acetate, F[5]28, 1435

α-D-Glucofuranose,
3,6-anhydro-1,2-*O*-isopropylidene-, C(1962), 2081; C(1962), 3701
3,5,6-tri-*O*-acetyl-1,2-*O*-isopropylidene-, C(1962), 3701

β-D-Glucofuranose, 3,6-anhydro-1,2-*O*-isopropylidene-5-*O*-*p*-toluenesulfonyl-, C(1962), 2081

β-D-Glucopyranose, 1-*O*-benzoyl-1-iodo-2-deoxy-, triacetate, CN 40, 1927

α-D-Glucopyranosyl chloride tetraacetate, JA 80, 6102

β-D-Glucopyranosyl chloride tetraacetate, JA 80, 6102

D-Glucosamine hydrochloride, irradiated, PC 67, 2187*

D-Glucose, OR 28, 564
irradiated, NT 193, 1061*; P 35, 2145*
5,6-carbonate, CN 41, 2407
(+ borate), CN 41, 2407

α-D-Glucose, PS 51, 248; SC 17, 1160
pentaacetate, C(1963), 1540; JA 80, 6101
(+ imidazole), TT 19, 2027
2-deoxy-, PS 51, 250

β-D-Glucose, PS 51, 248; SC 17, 1160
pentaacetate, C(1963), 1540; JA 80, 6101
2-deoxy-, PS 51, 250
cis-3,4-dideoxy-, AU 15, 506
trans-3,4-dideoxy-, AU 15, 504

Glucuronolactone, irradiated, PC 67, 2188*

Glutaconic acid, irradiated, P 37, 244*; P 38, 2921*

Glutamic acid,
irradiated, SC 15, 795*
hydrochloride, irradiated, SC 15, 795*

L-Glutamic acid, JA 81, 2872
irradiated, PC 62, 797*
hydrochloride, irradiated, P 35, 758*
acetyl-, irradiated, P 37, 2144*; PC 62, 787*
N-(2,4-dinitrophenyl)-, J 35, 1659

Glutamine, irradiated, PC 62, 797*

Glutaric acid, HB 328
irradiated, FS 54, 1129*
β,β-diethyl-, dimethyl ester, OR 24, 578
β,β-diphenyl-, OR 28, 3405
β-methyl-, CN 39, 2267
α-methylene-α′-ethylidene-, dimethyl ester, JA 83, 923

Glutathione, P 38, 1929*
(+ alloxan), SC 17, 905*; SC 17, 1679*
irradiated, NT 185, 308*; P 36, 1260*; P 37, 2193*; PC 62, 793*
acetyl-, irradiated, PC 62, 788*

Glycerin, HB 138
irradiated, P 30, 697*

Glycidaldehyde, P 34, 986

Glycidic acid, P 32, 1383

Glycidonitrile, P 32, 1382

Glycine, JA 81, 2781; NT 193, 372*; P 36, 1912
(+ cobalt), FD 34, 94; JA 85, 3739
(+ ninhydrin), SC 17, 278*
irradiated, C(1960), 1870*; JA 85, 874*; NT 183, 831*; P 31, 859*
N-acetyl-, irradiated, P 33, 1600*; PC 62, 784*
DL-alanyl-, irradiated, PC 62, 784*
DL-alanylglycyl-, irradiated, PC 62, 784*
benzoyl-, irradiated, PC 62, 786*
N-carbamyl-, irradiated, P 37, 382*
chloroacetylglycyl-, irradiated, PC 62, 787*
cysteinyl-, irradiated, PC 62, 788*
diglycyl-, irradiated, PC 62, 784*
N,*N*′-dimethyl-
(+ cobalt), FD 34, 94
N-(2,4-dinitrophenyl)-, J 35, 1659
glycyl-
(+ copper), JA 84, 4652
(+ deuterium oxide), irradiated, JA 83, 1039*
irradiated, JA 83, 1039*; P 35, 119*

hydrochloride, irradiated, P 38, 2103*
DL-leucylglycyl-, irradiated, PC 62, 784*
N-methyl-
(+ nickel), FD 34, 91
triglycyl-, irradiated, PC 62, 784*

Glycine-d, glycyl-, hydrochloride, irradiated, P 38, 2103*

Glycine-α-d_2, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-*N*-d_3, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-d_5, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-N^{15}, irradiated, JA 85, 874*

Glycocyamine, PC 63, 303

Glycol dimethacrylate-acrylonitrile copolymer, irradiated, PS 34, 204*

Glycol dimethacrylate-methacrylic acid allyl ester copolymer, PS 34, 203*

Glycol dimethacrylate-methacrylic acid methyl ester copolymer, PS 34, 203*

Glycol dimethacrylate-α-methylacrylonitrile copolymer, irradiated, PS 34, 204*

Glycorine, TT 19, 1015
hydrochloride, TT 19, 1015

Glycosmicine, TT 19, 1013

Glycosminine, TT 19, 1018

Glyoxal, M 6, 486
phenyl-, hemimercaptal, JA 85, 1971

Glyoxal-d_2, M 6, 486

Glyoxaline, C(1958), 3229

Glyoxaline-2-d_1, C(1958), 3229

Glyoxaline-4,5-d_2, C(1958), 3229

Glyoxime, dimethyl-, irradiated, P 30, 1591*

Gold
(+ dithiocarbamate, diisopropyl-), NT 184, 183*

Graphite, P 37, 1813*; P 39, 1337*

Grease, HB 426

Grifolin, TT 19, 2082
bis(4-nitrobenzoate), TT 19, 2082

Grindelic acid, 7α,8α-oxido-, methyl ester, IT 92, 999

Griseofulvin, JA 85, 627; TT 19, 7
deschloro-, H 45, 2245

GR-S rubber, SA 14, 36

Guaiazulene, C(1960), 4292; CN 40, 1781
(+ iron pentacarbonyl), C(1960), 4292

Guaiaazulenesulfonic acid, H 46, 1934

Guanidine,
diphenyl-, O 13, 451*
nitro-, FS 54, 323
tetramethyl-
(+ sulfur), JA 85, 544*

Guanine, 1,9-dimethyl-, S 142, 1463

Guanosine, JA 83, 2910; JA 84, 4465; NT 196, 373; S 142, 1463
5′-phosphate, S 142, 1463
triphosphate, JA 82, 227
deoxy-, JA 84, 4465

Guanylic acid, irradiated, PS 55, 581*

β-L-Gulose pentaacetate, JA 80, 6101

α-Gurjunene, F[5]30, 1954

Gypsum, J 34, 1455

H

Hair, AB 86, 228*
irradiated, AB 86, 228*

Helvolic acid methyl ester, OR 26, 4526

Hematoporphyrin-9, JA 83, 3746

Hemocyanin, oxy-, N 653, 151*

Heptalene, JA 83, 4660

1-Heptalenium fluoroborate, JA 83, 4658

Heptamethine cyanine,
2-bis(3-ethylbenzothiazolyl)-, iodide, PC 66, 2405*
4-bis(1-ethylquinolyl)-, iodide, PC 66, 2405*

hydrochloride, irradiated, P 38, 2103*
DL-leucylglycyl-, irradiated, PC 62, 784*
N-methyl-
(+ nickel), FD 34, 91
triglycyl-, irradiated, PC 62, 784*

Glycine-d, glycyl-, hydrochloride, irradiated, P 38, 2103*

Glycine-α-d_2, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-*N*-d_3, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-d_5, irradiated, C(1960), 1870*; JA 85, 874*

Glycine-N^{15}, irradiated, JA 85, 874*

Glycocyamine, PC 63, 303

Glycol dimethacrylate-acrylonitrile copolymer, irradiated, PS 34, 204*

Glycol dimethacrylate-methacrylic acid allyl ester copolymer, PS 34, 203*

Glycol dimethacrylate-methacrylic acid methyl ester copolymer, PS 34, 203*

Glycol dimethacrylate-α-methylacrylonitrile copolymer, irradiated, PS 34, 204*

Glycorine, TT 19, 1015
hydrochloride, TT 19, 1015

Glycosmicine, TT 19, 1013

Glycosminine, TT 19, 1018

Glyoxal, M 6, 486
phenyl-, hemimercaptal, JA 85, 1971

Glyoxal-d_2, M 6, 486

Glyoxaline, C(1958), 3229

Glyoxaline-2-d_1, C(1958), 3229

Glyoxaline-4,5-d_2, C(1958), 3229

Glyoxime, dimethyl-, irradiated, P 30, 1591*

Gold
(+ dithiocarbamate, diisopropyl-), NT 184, 183*

Graphite, P 37, 1813*; P 39, 1337*

Grease, HB 426

Grifolin, TT 19, 2082
bis(4-nitrobenzoate), TT 19, 2082

Grindelic acid, 7α,8α-oxido-, methyl ester, IT 92, 999

Griseofulvin, JA 85, 627; TT 19, 7
deschloro-, H 45, 2245

GR-S rubber, SA 14, 36

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Guaiaazulenesulfonic acid, H 46, 1934

Guanidine,
diphenyl-, O 13, 451*
nitro-, FS 54, 323
tetramethyl-
(+ sulfur), JA 85, 544*

Guanine, 1,9-dimethyl-, S 142, 1463

Guanosine, JA 83, 2910; JA 84, 4465; NT 196, 373; S 142, 1463
5′-phosphate, S 142, 1463
triphosphate, JA 82, 227
deoxy-, JA 84, 4465

Guanylic acid, irradiated, PS 55, 581*

β-L-Gulose pentaacetate, JA 80, 6101

α-Gurjunene, F[5]30, 1954

Gypsum, J 34, 1455

H

Hair, AB 86, 228*
irradiated, AB 86, 228*

Helvolic acid methyl ester, OR 26, 4526

Hematoporphyrin-9, JA 83, 3746

Hemocyanin, oxy-, N 653, 151*

Heptalene, JA 83, 4660

1-Heptalenium fluoroborate, JA 83, 4658

Heptamethine cyanine,
2-bis(3-ethylbenzothiazolyl)-, iodide, PC 66, 2405*
4-bis(1-ethylquinolyl)-, iodide, PC 66, 2405*

Heptane, HB 4
irradiated, P 30, 697*
2-cyclopentyl-, HB 301; SA 14, 36
1-hydropentadecafluoro-, PC 67, 1183
perfluoro-, irradiated, PC 66, 2674*
2,2,6,6-tetramethyl-4-methylene, AC 35, 1365

3,5-Heptanedione, 4-methyl-
(+ boric acid, difluoro-, enol ester, N 668, 4

Heptanal
enol acetate, F[5]30, 225
enol acetate 1,2-epoxide, F[5]30, 226
2-acetoxy-, F[5]30, 226

1-Heptanol
(+ boron trifluoride), IN 8, 472

2-Heptanone, 1-acetoxy-, F[5]30, 227

1,3,6-Heptatriene, 1,1,7,7-tetrachloro-2,5,6-trimethyl-, H 46, 2093

1-Heptene,
2,4,4,6,6-pentamethyl-, AC 35, 1365
perfluoro-, irradiated, PC 66, 2674*
1-phenoxy-1-chloro-, F[5]30, 1886

2-Heptene, 2,4,4,6,6-pentamethyl-, AC 35, 1365

3-Heptene,
irradiated, P 31, 349*
2,6-dimethyl-, irradiated, P 31, 351*
2,2,4,6,6-pentamethyl-, AC 35, 1365
2,2,6,6-tetramethyl-4-(2,2-dimethylbutyl)-, AC 35, 1367

6-Heptenoic acid, 7-chloro-6-methyl-, OR 28, 3574

Heptyl, O 6, 361*

Hernandezine, TT 18, 428

Hevea, PS A1, 2908

Hexaborane, P 30, 334

Hexacosane, NT 183, 1184
(+ urea), NT 183, 1183

Hexadecane, irradiated, FS 57, 1488*

1-Hexadecene, irradiated, FS 57, 1488*

Hexadecyl, O 6, 360*

3,4-Hexadien-1-al, 2-butyl-2-ethyl-5-methyl-, PC 67, 1362

1,5-Hexadiene, HB 55; JA 85, 1303
2,5-dimethyl-, JA 85, 1304

2,4-Hexadiene
2,5-dimethyl-
(+ benzenethiol), OR 28, 2353
(+ 2-naphthalenethiol), OR 27, 2442

1,5-Hexadiyne, perfluoro-, irradiated, PC 66, 2674*

Hexamethine,
[2-(3-ethylbenzothiazolyl)]-[1-piperidyl]-, iodide
(+ chloranil), PC 67, 2637*
[2-[3-ethylbenzothiazolylidene)]-[triphenylphosphonium-2-cyclopentadienylidene]-, iodide
(+ chloranil), PC 67, 2637*

Hexamethylenetetramine, HB 656; P 28, 1185; P 36, 3084

Hexanamide, *N*-ethyl-, irradiated, JA 83, 575*

Hexane, CA 44, 517; HB 2
irradiated, P 28, 1174*; P 30, 697*
DL-2,5-dimethyl-2,5-dimethoxy-3,4-diphenyl-, CN 39, 1678
meso-2,5-dimethyl-2,5-dimethoxy-3,4-diphenyl-, CN 39, 1678
1,1,1,2,2,3,3-heptafluoro-, M 7, 394
1,1,1,6,6,6-hexafluoro-, M 7, 394
perfluoro-, M 7, 394
3,3,4,4-tetrafluoro-, M 7, 394

1,3-Hexanediol, 2-ethyl-, HB 137

1,4-Hexanediol, 2,2,5,5-tetramethyl-, JA 82, 3448

2,5-Hexanedione, HB 159
(+ hydrogen peroxide), OR 27, 4320

1,2,6-Hexanetriol, HB 141
(+ hydrochloric acid), HB 143

1-Hexanol
(+ boron trifluoride), IN 8, 472
irradiated, P 30, 697*
2-ethyl-
(+ boron trifluoride), IN 8, 472

3-Hexanol, 2,2,5,5-tetramethyl-, JA 82, 3448

Hexanorelatericin A,
16-desoxy-, acetate, OR 28, 1791
7-keto-, 2,16-diacetate, OR 27, 4548

2,3,4-Hexatrien-1-al, 5-methyl-, OR 28, 689

1-Hexene, HB 44; JA 83, 232
irradiated, P 31, 349*
2-methyl-, AC 35, 1372

trans-1-Hexene, D-arabino-3,4,5,6-tetraacetoxy-1-(4-bromophenyl) azo-, OR 27, 2564

2-Hexene,
irradiated, P 31, 349*
2,3-dimethyl-, JA 85, 1301

cis-2-Hexene, HB 45

trans-2-Hexene, HB 46

cis-3-Hexene, HB 47

trans-3-Hexene, HB 48

1-Hexene-3,5-diyne, BE 96, 2507

5-Hexen-2-one, irradiated, JA 82, 777

Hexyl, O 6, 361*

Himbacine, AU 14, 65

Himgravine, AU 14, 65

Hinesol, CC 27, 1920

Hisex, PS 50, 355*

Histamine
(+ cobalt), JA 85, 3739

Histidine, JA 85, 3737
(+ cobalt), FD 34, 94; JA 85, 3739
(+ nickel), FD 34, 89
irradiated, PC 62, 796*; SC 15, 796*
methyl ester
(+ cobalt), JA 85, 3739
N-acetyl-
(+ cobalt), JA 85, 3739

D-Histidine
(+ cobalt), JA 85, 3740

L-Histidine, JA 81, 2872
(+ cobalt), JA 85, 3739
L-histidyl-, JA 81, 2872
1-methyl-
(+ cobalt), JA 85, 3739
3-methyl-
(+ cobalt), JA 85, 3739

Holmium ethyl sulfate, RL A245, 162*

1,4-D-Homoandrostadiene-3,7-dione,
9α-fluoro-11β,16α,17aα-trihydroxy-17aβ-hydroxymethyl-,
acetate acetonide, JA 82, 4620
acetonide, JA 82, 4620
diacetate, JA 82, 4620

Homochroman, 5,5-dimethyl-, JA 84, 1741

Homocysteine, acetyl-, thiolactone, irradiated, PC 62, 788*

3,4-Homotropilidene, G 75, 32; TT 19, 722

Hoof protein, NT 195, 175*

Hopane, 6α,22-dihydroxy-, acetate, F[5]30, 1702

Human hair, AB 86, 228*
irradiated, AB 86, 228*

Human whole cortical bone, NT 199, 1304*

Humic acid, SC 17, 1304*

Humulane, TT 9, 7

Humulinone, TT 9, 272

Humulone, TT 9, 272
dihydro-, TT 9, 272

Hydantoin,
5-α-ethoxybenzyl-, C (1963), 2749
5-(2′-methylcyclopentyl)-, CN 40, 363

Hydrargillite, J 33, 1463

Hydrastine, V 347

Hydrazine, HB 281; P 39, 1905*
diphenylpicryl-, ZP 218, 116*
1,1-diphenyl-2-picryl-, irradiated, P 38, 1454*
tetrafluoro-, IC 2, 1312
tetramethyl-
(+ aluminum, diethyl-, chloride), IC 2, 1252
(+ aluminum, trimethyl-), CN 41, 1364
tetraphenyl-, IS 53A, 281
(+ lead dioxide), IS 53A, 282*

Hydrazine-d_4, SD 24, 562*

Hydrazobenzene
(+ azobenzene), JA 84, 4156*

Hydrazyl, P 30, 861; P 34, 1699*
2,2-di-(4-acetoxyphenyl)-1-picryl-, PC 65, 714*
2,2-di-biphenylene-1-picryl-, PC 65, 714*
2,2-di-(4-bromophenyl)-1-picryl-, PC 65, 714*
2,2-di-(4-chlorophenyl)-1-picryl-, PC 65, 714*
2,2-di-(4-fluorophenyl)-1-picryl-, PC 65, 714*
2,2-di-(4-methoxyphenyl)-1-picryl-, PC 65, 714*
2,2-di-(4-nitrophenyl)-1-picryl-, P 38, 281*
PC 65, 710*; PC 65, 714*
1,1-diphenyl-2-(2,2-dinitrophenyl)-, PS 58, 671*
1,1-diphenyl-2-(2,4-dinitrophenyl)-, AT 33, 437*;
PS 58, 671*; ZP 219, 287*
1,1-diphenyl-2-(2,6-dinitrophenyl)-, AT 33, 437*;
ZP 219, 287*
2,2-diphenyl-1-picryl-, CC 25, 1216*;
CH 14, 158*; CH 14, 161*; CN 38, 725*;
F[5]26, 1708*; J 36, 801*; O 15, 343*;
P 32, 1585*; P 33, 542*; P 33, 1582;
P 36, 1676*; P 38, 2313*; PC 65, 710*;

PC 65, 714*; PS 55, 580*; PS 58, 671*; SC 12, 1535*; ZP 218, 116*
(+ benzene), SC 12, 1535*
(+ *t*-butyl hydroperoxide), P 36, 1678*
(+ zinc oxide), CN 38, 725*
irradiated, P 38, 1454*
2,2-di-*p*-tolyl-1-picryl-, PC 65, 714*
2-phenyl-2-(4-nitrophenyl)-1-picryl-, PC 65, 710*; PC 65, 714*

Hydrazyl radicals, O 15, 341*

cis-Hydrindan, HB 30; JA 83, 1673

trans-Hydrindan, HB 31; JA 83, 1674

Hydroborate, nitroso-, JA 85, 2727

Hydrochloric acid
(+ benzyl alcohol, 4-isopropyl-), HB 362
(+ *exo*-bicyclo(2.2.1)heptane-*cis*-2,3-diol), HB 553
(+ 1-butanol), HB 131; HB 519
(+ 2-butanol), HB 521
(+ ethanol, 2-ethoxy-), HB 528
(+ formamide), HB 270
(+ 1,2,6-hexanetriol), HB 143
(+ isopropanol), HB 129; HB 517
(+ methanol), HB 124
(+ 1-propanol), HB 515

Hydrocinnamic acid, β-(4-carboxymethylphenyl)-, OR 28, 3405

Hydrogen, O 6, 361*; P 32, 966*; PC 67, 1464*; PS 55, 577*
(+ poly[ethylene, tetrafluoro-], irradiated), P 35, 1653*
irradiated, PC 63, 1767*

Hydrogen bromide
(+ *trans*-2-butene), JA 84, 918*
(+ 2-butyne), JA 84, 917*
(+ cyclohexene), JA 84, 919*
(+ cyclopentene), JA 84, 919*
(+ ethylene), irradiated, CN 38, 692*
irradiated, CN 38, 691*

Hydrogen chloride
(+ platinum + triethylphosphine), C(1962), 5078

Hydrogen cyanide, irradiated, P 36, 1939*

Hydrogen fluoride-t, CN 40, 421*

Hydrogen iodide, irradiated, P 32, 965*

Hydrogen peroxide
(+ allyl alcohol), irradiated, C(1959), 287*
(+ ascorbic acid + peroxidase), B 235, 2446*
(+ cobalt + ammonia), PC 63, 1893*
(+ fumaric acid, dihydroxy- + peroxidase), B 235, 2448*
(+ 2,5-hexanedione), OR 27, 4320
(+ hydroquinone + peroxidase), B 235, 2445*
(+ myoglobin), B 238, 1521
(+ 1-propanol), irradiated, C(1959), 271*
(+ 2-propanol), irradiated, C(1959), 271*
(+ titanium + allyl alcohol), C(1963), 3121*
(+ titanium + 1-butanol), C(1963), 3121*
(+ titanium + ethanol), C(1963), 3121*
(+ titanium + methanol), C(1963), 3121*
(+ titanium + 1,3-propanediol), C(1963), 3121*
(+ titanium + 2-propanol), C(1963), 3121*
(+ titanium + propargyl alcohol), C(1963), 3121*
(+ wool), NT 196, 668*
irradiated, JA 83, 2201*; NT 186, 227*; P 35, 2255*

Hydrogen peroxide-t, CN 40, 417*

Hydroperoxide, JA 83, 4467*

Hydroquinone, B 235, 2445*
(+ hydrogen peroxide + peroxidase), B 235, 2445*
2-fluoro-5-chloro-, oxidized, P 32, 199*
tetrafluoro-, oxidized, P 32, 199*

Hydroxylamine
(+ Nitrosomonas europaea), NT 196, 435*
N,N-diphenyl-
(+ phenoxyl, tri-*t*-butyl-), N 645, 8*
trimethylsilyl-, MO 94, 148

Hypophosphate, CA 44, 473; CH 13, 22

Hypophosphite, CH 13, 22

Hypophosphorous acid, JA 85, 520

Hypophosphorous acid-d_1, JA 85, 520

Hypophosphorous acid-d_2, JA 85, 520

I

Ice, CN 40, 415*; G 73, 800
irradiated, P 30, 1624*; P 33, 609*; P 34, 1783*; P 37, 2274*

α-L-Idofuranose, 5,6-dideoxy-5,6-epithio-1,2-*O*-isopropylidene-, C(1962), 3701

β-L-Idofuranose, 3-*O*-benzyl-6-deoxy-1,2-*O*-isopropylidene-, OR 28, 3552

Itflaiamine, AU 16, 481

PC 65, 714*; PS 55, 580*; PS 58, 671*; SC 12, 1535*; ZP 218, 116*
(+ benzene), SC 12, 1535*
(+ *t*-butyl hydroperoxide), P 36, 1678*
(+ zinc oxide), CN 38, 725*
irradiated, P 38, 1454*
2,2-di-*p*-tolyl-1-picryl-, PC 65, 714*
2-phenyl-2-(4-nitrophenyl)-1-picryl-, PC 65, 710*; PC 65, 714*

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Hydroborate, nitroso-, JA 85, 2727

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(+ benzyl alcohol, 4-isopropyl-), HB 362
(+ *exo*-bicyclo(2.2.1)heptane-*cis*-2,3-diol), HB 553
(+ 1-butanol), HB 131; HB 519
(+ 2-butanol), HB 521
(+ ethanol, 2-ethoxy-), HB 528
(+ formamide), HB 270
(+ 1,2,6-hexanetriol), HB 143
(+ isopropanol), HB 129; HB 517
(+ methanol), HB 124
(+ 1-propanol), HB 515

Hydrocinnamic acid, β-(4-carboxymethylphenyl)-, OR 28, 3405

Hydrogen, O 6, 361*; P 32, 966*; PC 67, 1464*; PS 55, 577*
(+ poly[ethylene, tetrafluoro-], irradiated), P 35, 1653*
irradiated, PC 63, 1767*

Hydrogen bromide
(+ *trans*-2-butene), JA 84, 918*
(+ 2-butyne), JA 84, 917*
(+ cyclohexene), JA 84, 919*
(+ cyclopentene), JA 84, 919*
(+ ethylene), irradiated, CN 38, 692*
irradiated, CN 38, 691*

Hydrogen chloride
(+ platinum + triethylphosphine), C(1962), 5078

Hydrogen cyanide, irradiated, P 36, 1939*

Hydrogen fluoride-t, CN 40, 421*

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Hydrogen peroxide
(+ allyl alcohol), irradiated, C(1959), 287*
(+ ascorbic acid + peroxidase), B 235, 2446*
(+ cobalt + ammonia), PC 63, 1893*
(+ fumaric acid, dihydroxy- + peroxidase), B 235, 2448*
(+ 2,5-hexanedione), OR 27, 4320
(+ hydroquinone + peroxidase), B 235, 2445*
(+ myoglobin), B 238, 1521
(+ 1-propanol), irradiated, C(1959), 271*
(+ 2-propanol), irradiated, C(1959), 271*
(+ titanium + allyl alcohol), C(1963), 3121*
(+ titanium + 1-butanol), C(1963), 3121*
(+ titanium + ethanol), C(1963), 3121*
(+ titanium + methanol), C(1963), 3121*
(+ titanium + 1,3-propanediol), C(1963), 3121*
(+ titanium + 2-propanol), C(1963), 3121*
(+ titanium + propargyl alcohol), C(1963), 3121*
(+ wool), NT 196, 668*
irradiated, JA 83, 2201*; NT 186, 227*; P 35, 2255*

Hydrogen peroxide-t, CN 40, 417*

Hydroperoxide, JA 83, 4467*

Hydroquinone, B 235, 2445*
(+ hydrogen peroxide + peroxidase), B 235, 2445*
2-fluoro-5-chloro-, oxidized, P 32, 199*
tetrafluoro-, oxidized, P 32, 199*

Hydroxylamine
(+ Nitrosomonas europaea), NT 196, 435*
N,N-diphenyl-
(+ phenoxyl, tri-*t*-butyl-), N 645, 8*
trimethylsilyl-, MO 94, 148

Hypophosphate, CA 44, 473; CH 13, 22

Hypophosphite, CH 13, 22

Hypophosphorous acid, JA 85, 520

Hypophosphorous acid-d_1, JA 85, 520

Hypophosphorous acid-d_2, JA 85, 520

I

Ice, CN 40, 415*; G 73, 800
irradiated, P 30, 1624*; P 33, 609*; P 34, 1783*; P 37, 2274*

α-L-Idofuranose, 5,6-dideoxy-5,6-epithio-1,2-*O*-isopropylidene-, C(1962), 3701

β-L-Idofuranose, 3-*O*-benzyl-6-deoxy-1,2-*O*-isopropylidene-, OR 28, 3552

Itflaiamine, AU 16, 481

Illite, NT 199, 61*

Imidazole, BJ 86, 278; JA 84, 338; V 20
(+ cobalt), JA 85, 3739
(+ α-D-glucose pentaacetate), TT 19, 2027
1-acetyl-, C(1963), 1418
1-acetyl-4,5-dimethyl-, C(1963), 1418
1-acetyl-2-methyl-, C(1963), 1418
1-acetyl-4-methyl-, C(1963), 1418
N-methyl-, JA 84, 338
2-methyl-, JA 84, 338
4-methyl-, JA 84, 338

4H-Imidazole, 2-acetamido-5-acetoxy-4-benzylidene-, C(1963), 2749

Iminodiacetic acid
(+ nickel), FD 34, 91

as-Indacene, 4,5-dimethyl-1,2,3,5,7,8-hexahydro-, F[5]30, 270

Indan, 1,1-dimethyl-, ZA 170, 200

Indan-2-d,
1-bromo-, JA 85, 2249
1-chloro-, JA 85, 2249

1,3-Indandione, V 224

1-Indanone, HB 243; V 229

2-Indanone,
1-bromo-, JA 80, 2534
1-chloro-, JA 80, 2534

Indazole, AU 16, 1052

Indene, CN 41, 976; CR 63, 98; HB 99; P 36, 2348; V 227
2,3-dihydro-, HB 98
methyl-, AK 21, 188

Indenyl, CN 41, 976

Inderite, P 33, 330

Indigo, OR 28, 563*

Indigo carmine, P 37, 683*

Indium
(+ acetone, trifluoroacetyl-), JA 85, 503

Indole, HB 654; JA 82, 2185; JA 84, 2536
(+ chloranil), PC 67, 2638*
irradiated, NT 195, 594*
1,2-dimethyl-, JA 84, 2536
1,3-dimethyl-, JA 84, 2536
2,3-dimethyl-, JA 84, 2536
2,5-dimethyl-, V 255
N-methyl-, JA 82, 2185
2-methyl-, JA 82, 2185
3-methyl-, JA 82, 2185; JA 84, 2536; V 231
2-methyl-5-chloro-, V 228
2,3,5,7-tetramethyl-, F[5]30, 1050
1,2,3-trimethyl-, JA 84, 2536
2,5,7-trimethyl-, F[5]30, 1050
3,5,7-trimethyl-, F[5]30, 1050

3H-Indole,
2,3-dimethyl-3-phenyl-, OR 27, 1555
3,3-dimethyl-2-phenyl-, OR 27, 1555

Indolenine, 2,3,3-trimethyl-, V 286

Indolizine-1,2,3-tricarboxylic acid trimethyl ester, C(1960), 1697

Indolizinium perchlorate, C(1962), 3292
1,2-dimethyl-, C(1962), 3292
2,6-dimethyl-, C(1962), 3292
2,8-dimethyl-, C(1962), 3292
2-methyl-, C(1962), 3292
1,2,3-trimethyl-, C(1962), 3292

Indophenyl acetate, B 235, 1786
3,5-dibromo-3′,5′-dimethyl-, OR 27, 1848
2,6-dichloro-, B 235, 1786
3′,5′-dichloro-, B 235, 1786
3,5-dichloro-3′,5′-dimethoxy-, OR 27, 1848

2,6-Inosadiamine, hexaacetyl-, N 669, 80

5,6-Inosadiamine, hexaacetyl-, N 669, 80

Inosine, JA 82, 226; JA 82, 230
triacetate, V 324

Inositol
L-hexaacetate, F[5]25, 1638
myo-hexaacetate, F[5]25, 1638
1,4-dinitro-, tetraacetate, FD 34, 110

cis-Inositol, JA 80, 6104
hexaacetate, CN 40, 871

L-Inositol, JA 80, 6104

Insulin, B 237, 1811
(+ performic acid), B 237, 1812

Integerrinecic acid dimethyl ester, JA 83, 923

Iodanil
(+ *p*-phenylenediamine), JA 83, 4507*

Iodide
(+ copper + benzidine), CP 60, 370*
(+ iron), irradiated, O 11, 41*

Iodine
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ diethyl ether), irradiated, JA 84, 3809*
(+ ethanol), irradiated, JA 84, 3808*
(+ isopropanol), irradiated, JA 84, 3809*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ perylene), P 34, 138*
(+ propionamide, *N*,*N*-dimethyl-), PC 65, 1067
(+ triphenylamine), JA 85, 2558*

Ion exchange resins, PC 66, 1151

β-Ionone, irradiated, CN 39, 2136

γ-Ionone, N 652, 128

Iron, PY 32, 120S; SD 17, 341
(+ benzyl isonitrile + bromide), IC 2, 1049
(+ benzyl isonitrile + cyanide), IC 2, 1049
(+ benzyl isonitrile + cyanide + bromide), IC 2, 1049
(+ benzyl isonitrile, 4-carbomethoxy- + cyanide + bromide), IC 2, 1049
(+ benzyl isonitrile, 4-chloro- + cyanide + bromide), IC 2, 1049
(+ benzyl isonitrile, 2-methyl- + cyanide + bromide), IC 2, 1049
(+ benzyl isonitrile, 3-methyl- + cyanide + bromide), IC 2, 1049
(+ benzyl isonitrile, 4-methyl- + cyanide + bromide), IC 2, 1049
(+ bicyclo[4.2.0]-2,4-octadiene + carbon monoxide), C(1961), 596
(+ 1,3-butadiene + carbon monoxide), C(1961), 596
(+ 1,3-cycloheptadiene + carbon monoxide), C(1961), 596
(+ cycloheptatriene + carbon monoxide), C(1961), 596
(+ 1,3-cyclohexadiene + carbon monoxide), C(1961), 596
(+ cyclooctatetraene + carbon monoxide), C(1962), 851
(+ fluoride), P 31, 173*; P 32, 303*
(+ iodide), irradiated, O 11, 41*
(+ sulfuric acid + benzene), irradiated, O 11, 42*
dihydrodipentalenyl-, JA 85, 2031

Iron (III) bromide, C(1962), 364*

Iron carbonyl
(+ azulene, 4-methyl-), C(1960), 4292

Iron (III) chloride, C(1962), 364*; PC 65, 1931*
hexahydrate, PC 65, 1931*

Iron dicarbonyl, cyclopentadienyl-
(+ phosphine, dimethyl-), JA 85, 3123

Iron (III) hydroxide, G 73, 803
2.72-hydrate, NT 183, 944

Iron (III) nitrate, CH 13, 9

Iron oxide-lead oxide-boron oxide glass, GL 4, 58

Iron pentacarbonyl
(+ azulene), C(1960), 4292
(+ azulene, 4,6,8-trimethyl-), C(1960), 4292
(+ guaiazulene), C(1960), 4292
(+ norbornadiene), H 45, 1873
(+ phosphine, tris[dimethylamino]-), IC 2, 941

Iron (III) thiocyanate, C(1962), 364*

Iron tricarbonyl
(+ cyclooctatetraene), C(1962), 4822
1,3-butadienyl-, C(1961), 596
1,3-cycloheptadienyl-, C(1961), 596
cycloheptatrienyl-, C(1961), 596
1,3-cyclohexadienyl-, C(1961), 596
1,1-dimethyl-π-allyl-, fluoroborate, JA 84, 4592
syn,*syn*-1,5-dimethylpentadienyl-, fluoroborate, JA 85, 3957
syn-1-methylpentadienyl-, fluoroborate, JA 85, 3960
pentadienyl-, fluoroborate, JA 85, 3957

Isoalloxazine,
6,7-dichloro-9-ethyl-, semiquinone, AB 103, 235*
9-ethyl-, semiquinone, AB 103, 236*
9-methyl-, semiquinone, AB 103, 236*

Isoamyl alcohol, irradiated, P 30, 697*

5-Isoandrosterone, JA 80, 5125

Isobenzofuran,
1,3-bis(hydroperoxy)-1,3-dimethyl-1,3-dihydro-, dibenzoate, BE 96, 2717
1,3-bis(hydroperoxy)-1,3-dimethyl-1,3,4,5,6,7-hexahydro-, dibenzoate, BE 96, 2717
5,6-dimethyl-1,3-dihydro-, J 34, 1575

Isoborneol, JA 85, 3213
acetate, JA 85, 3213

Isobornyl acetate, JA 85, 3215

Isobornyl chloride, JA 85, 3215

Isobutane, P 31, 1238; P 39, 2168*
irradiated, P 28, 1175*

Isobutanol, AC 31, 59; C(1959), 273*; HB 132; HB 522
(+ boron trifluoride), IN 8, 471
irradiated, P 30, 697*

Isobutene, irradiated, PC 63, 912*

Isobutyl chloride, irradiated, FS 58, 1483*

Isobutylene oxide, HB 174

Isobutylene sulfite, JA 83, 2106

Isobutyl vinyl ether, C(1962), 2022; CA 44, 520
(+ phenol, 2-chloro-), CA 44, 520

Isobutyraldehyde semicarbazone, OR 24, 95

Isobutyric acid
sodium salt, FS 58, 975*
α-amino-, irradiated, FS 57, 1658*
α,β-dibromo-, methyl ester, JA 83, 247

Isobutyryl fluoride, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330

Isochondrodendrine, *O,O'*-dimethyl-, C(1961), 1899

Isocolchicine, irradiated, JA 85, 3173

Isocrotonic acid, J 33, 428; SC 17, 2768
3-chloro-, V 54

Isodicyclopentadiene, JA 84, 866

Isogalcatine, F[5]30, 1008

Isogeijerene, C(1961), 2288

Isojaconecic acid dimethyl ester, JA 81, 5203

DL-Isoleucine, JA 81, 2872
irradiated, PC 62, 792*

L-Isoleucine, *N*-(2,4-dinitrophenyl)-, J 35, 1659

Isomaltotriose, CN 41, 295

Isonidulin, *O*-methyl-, OR 26, 3011

Isoötobain, C(1963), 1447
tetradehydro-, C(1963), 1447

Isoparaffin, AC 34, 52

Isopelletierin, DL-*N*-methyl-, F[5]28, 1994

Isopentane, P 39, 2171*

Isopentanol, C(1959), 273*
(+ boron trifluoride), IN 8, 471

Isophorone, CH 13, 20

Isophthalic acid dimethyl ester, HB 225

Isophthalyl chloride, 3-chloro-, FS 55, 708

Isopimaric acid methyl ester, JA 83, 999

Isoplumericin, H 44, 1460

17-Iso-4-pregnene, DL-3,11,20-triketo-18,18-ethylenedioxy-, H 45, 335

17-Iso-5-pregnene, DL-3,3;18,18;20,20-tris(ethylenedioxy)-11-keto-, H 45, 335

Isoprene
(+ benzenethiol), JA 84, 3898; OR 28, 2356
(+ sodium), J 32, 891*

Isoprene-butadiene copolymer, AC 34, 1135

Isopropanol, AC 31, 59; CH 14, 149; CP 56, 781*; FS 54, 1312*; HB 128; HB 516; V 44
(+ boron trifluoride), IN 8, 470
(+ hydrochloric acid), HB 129; HB 517
(+ iodine), irradiated, JA 84, 3809*
irradiated, P 28, 1177*; P 30, 697*

Isopropyl, CH 13, 21; P 39, 2166*

Isopropyl bromide, irradiated, FS 58, 1481*

Isopropyl chloride, irradiated, FS 58, 1482*

Isopropyl iodide, irradiated, FS 58, 1481*; P 34, 1172*

Isopropyl isonitrile, P 35, 1533

Isopropyl nitrite, P 30, 907

Isopropyl (1-oxyl-2,6-di-*t*-butyl-4-phenyl) selenide, N 657, 9*

Isopropyl phenyl ether, CN 38, 627

3-Isoreserpic acid methyl ester, JA 83, 4817
3',4',5'-trimethoxybenzoate, JA 83, 4817

Isorotenolone C acetate, C(1962), 780

Isosafrole, V 252

Isosepiapterin, NT 196, 373

Isotetragermane, C(1962), 2810

Isotetrandrine, C(1961), 1899

Isototaryl methyl ether, I 40, 420

Isovaleraldehyde, HB 146

Isovaleric acid, HB 316

DL-Isovaline, irradiated, P 36, 1098*

Isoxazole,
3-methyl-, H 46, 545
5-methyl-, H 46, 545

Itaconic acid,
irradiated, P 39, 846; PS 39, 26*
dimethyl ester, C (1960), 1697; JA 83, 923
irradiated, PS 39, 23*

J

Jaconecic acid dimethyl ester, JA 81, 5203

K

α-Kainic acid dimethyl ester, J 35, 1899

Kaolinite, NT 199, 61*

KEL-F, PS 50, 353*

Keratin, NT 195, 175*
irradiated, NT 195, 493*

Khusol, TT 19, 1076

Kojic acid, α-deoxy-
(+ acrylonitrile), JA 81, 2431

L

14-Labdene, (13R)-8β,13-oxido-20-hydroxy-,
H 45, 404

Laccase, NT 183, 322*
(+ catechol), NT 183, 322*

β-Lactoglobulin, PS 38, 80

Lactose hydrate, irradiated, PC 67, 2186*

α-Lactose, irradiated, P 31, 857*
hydrate, irradiated, P 31, 857*

Lankavose, H 45, 147

Lanthanum orthoborate, P 35, 437

Lanthionine, irradiated, PC 62, 794*

Lapacone, dehydro-, AN 52, 1186

β-Lapacone, AN 52, 1186

Latifolic acid, AU 15, 141

Latifolin dimethyl ether, TT 18, 1504

Lauric acid, CN 37, 776

Lauth's Violet, P 37, 1481*

Lead, tetraethyl-, P 34, 1054

Lead dioxide
(+ benzidine, diphenyl-), IS 53A, 286*
(+ diphenylamine), IS 53A, 284*
(+ hydrazine, tetraphenyl-), IS 53A, 282*

α-Lead dioxide, E 107, 931

β-Lead dioxide, E 107, 931

Lead oxide-boron oxide glass, GL 4, 50

Lead oxide-iron oxide-boron oxide glass, GL 4, 58

Lead-sodium alloy, IS 56A, 314

DL-Leucine,
irradiated, PC 62, 792*
acetyl-, irradiated, PC 62, 787*
glycyl-, irradiated, PC 62, 785*

L-Leucine, JA 81, 2871
chloroacetyl-, irradiated, PC 62, 787*
N-(2,4-dinitrophenyl)-, J 35, 1659

Levulic acid, AK 13, 429
3-bromo-, AK 13, 429
5-bromo-, AK 13, 429
methyl ester, AK 14, 468
3,5-dibromo-, AK 13, 429
5-hydroxy-, AK 14, 468

Levulinic acid, HB 322

Lexan, irradiated, PS 47, 182*

Libocedroquinone, OR 23, 1200

Lignin, NT 196, 986

Ligustilide, TT 19, 1279

Limaspermin, H 45, 2262

Isovaleraldehyde, HB 146

Isovaleric acid, HB 316

DL-Isovaline, irradiated, P 36, 1098*

Isoxazole,
3-methyl-, H 46, 545
5-methyl-, H 46, 545

Itaconic acid,
irradiated, P 39, 846; PS 39, 26*
dimethyl ester, C (1960), 1697; JA 83, 923
irradiated, PS 39, 23*

J

Jaconecic acid dimethyl ester, JA 81, 5203

K

α-Kainic acid dimethyl ester, J 35, 1899

Kaolinite, NT 199, 61*

KEL-F, PS 50, 353*

Keratin, NT 195, 175*
irradiated, NT 195, 493*

Khusol, TT 19, 1076

Kojic acid, α-deoxy-
(+ acrylonitrile), JA 81, 2431

L

14-Labdene, (13R)-8β,13-oxido-20-hydroxy-,
H 45, 404

Laccase, NT 183, 322*
(+ catechol), NT 183, 322*

β-Lactoglobulin, PS 38, 80

Lactose hydrate, irradiated, PC 67, 2186*

α-Lactose, irradiated, P 31, 857*
hydrate, irradiated, P 31, 857*

Lankavose, H 45, 147

Lanthanum orthoborate, P 35, 437

Lanthionine, irradiated, PC 62, 794*

Lapacone, dehydro-, AN 52, 1186

β-Lapacone, AN 52, 1186

Latifolic acid, AU 15, 141

Latifolin dimethyl ether, TT 18, 1504

Lauric acid, CN 37, 776

Lauth's Violet, P 37, 1481*

Lead, tetraethyl-, P 34, 1054

Lead dioxide
(+ benzidine, diphenyl-), IS 53A, 286*
(+ diphenylamine), IS 53A, 284*
(+ hydrazine, tetraphenyl-), IS 53A, 282*

α-Lead dioxide, E 107, 931

β-Lead dioxide, E 107, 931

Lead oxide-boron oxide glass, GL 4, 50

Lead oxide-iron oxide-boron oxide glass, GL 4, 58

Lead-sodium alloy, IS 56A, 314

DL-Leucine,
irradiated, PC 62, 792*
acetyl-, irradiated, PC 62, 787*
glycyl-, irradiated, PC 62, 785*

L-Leucine, JA 81, 2871
chloroacetyl-, irradiated, PC 62, 787*
N-(2,4-dinitrophenyl)-, J 35, 1659

Levulic acid, AK 13, 429
3-bromo-, AK 13, 429
5-bromo-, AK 13, 429
methyl ester, AK 14, 468
3,5-dibromo-, AK 13, 429
5-hydroxy-, AK 14, 468

Levulinic acid, HB 322

Lexan, irradiated, PS 47, 182*

Libocedroquinone, OR 23, 1200

Lignin, NT 196, 986

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3-methyl-, H 46, 545
5-methyl-, H 46, 545

Itaconic acid,
irradiated, P 39, 846; PS 39, 26*
dimethyl ester, C (1960), 1697; JA 83, 923
irradiated, PS 39, 23*

J

Jaconecic acid dimethyl ester, JA 81, 5203

K

α-Kainic acid dimethyl ester, J 35, 1899

Kaolinite, NT 199, 61*

KEL-F, PS 50, 353*

Keratin, NT 195, 175*
irradiated, NT 195, 493*

Khusol, TT 19, 1076

Kojic acid, α-deoxy-
(+ acrylonitrile), JA 81, 2431

L

14-Labdene, (13R)-8β,13-oxido-20-hydroxy-,
H 45, 404

Laccase, NT 183, 322*
(+ catechol), NT 183, 322*

β-Lactoglobulin, PS 38, 80

Lactose hydrate, irradiated, PC 67, 2186*

α-Lactose, irradiated, P 31, 857*
hydrate, irradiated, P 31, 857*

Lankavose, H 45, 147

Lanthanum orthoborate, P 35, 437

Lanthionine, irradiated, PC 62, 794*

Lapacone, dehydro-, AN 52, 1186

β-Lapacone, AN 52, 1186

Latifolic acid, AU 15, 141

Latifolin dimethyl ether, TT 18, 1504

Lauric acid, CN 37, 776

Lauth's Violet, P 37, 1481*

Lead, tetraethyl-, P 34, 1054

Lead dioxide
(+ benzidine, diphenyl-), IS 53A, 286*
(+ diphenylamine), IS 53A, 284*
(+ hydrazine, tetraphenyl-), IS 53A, 282*

α-Lead dioxide, E 107, 931

β-Lead dioxide, E 107, 931

Lead oxide-boron oxide glass, GL 4, 50

Lead oxide-iron oxide-boron oxide glass, GL 4, 58

Lead-sodium alloy, IS 56A, 314

DL-Leucine,
irradiated, PC 62, 792*
acetyl-, irradiated, PC 62, 787*
glycyl-, irradiated, PC 62, 785*

L-Leucine, JA 81, 2871
chloroacetyl-, irradiated, PC 62, 787*
N-(2,4-dinitrophenyl)-, J 35, 1659

Levulic acid, AK 13, 429
3-bromo-, AK 13, 429
5-bromo-, AK 13, 429
methyl ester, AK 14, 468
3,5-dibromo-, AK 13, 429
5-hydroxy-, AK 14, 468

Levulinic acid, HB 322

Lexan, irradiated, PS 47, 182*

Libocedroquinone, OR 23, 1200

Lignin, NT 196, 986

Ligustilide, TT 19, 1279

Limaspermin, H 45, 2262

Isovaleraldehyde, HB 146

Isovaleric acid, HB 316

DL-Isovaline, irradiated, P 36, 1098*

Isoxazole,
3-methyl-, H 46, 545
5-methyl-, H 46, 545

Itaconic acid,
irradiated, P 39, 846; PS 39, 26*
dimethyl ester, C (1960), 1697; JA 83, 923
irradiated, PS 39, 23*

J

Jaconecic acid dimethyl ester, JA 81, 5203

K

α-Kainic acid dimethyl ester, J 35, 1899

Kaolinite, NT 199, 61*

KEL-F, PS 50, 353*

Keratin, NT 195, 175*
irradiated, NT 195, 493*

Khusol, TT 19, 1076

Kojic acid, α-deoxy-
(+ acrylonitrile), JA 81, 2431

L

14-Labdene, (13R)-8β,13-oxido-20-hydroxy-,
H 45, 404

Laccase, NT 183, 322*
(+ catechol), NT 183, 322*

β-Lactoglobulin, PS 38, 80

Lactose hydrate, irradiated, PC 67, 2186*

α-Lactose, irradiated, P 31, 857*
hydrate, irradiated, P 31, 857*

Lankavose, H 45, 147

Lanthanum orthoborate, P 35, 437

Lanthionine, irradiated, PC 62, 794*

Lapacone, dehydro-, AN 52, 1186

β-Lapacone, AN 52, 1186

Latifolic acid, AU 15, 141

Latifolin dimethyl ether, TT 18, 1504

Lauric acid, CN 37, 776

Lauth's Violet, P 37, 1481*

Lead, tetraethyl-, P 34, 1054

Lead dioxide
(+ benzidine, diphenyl-), IS 53A, 286*
(+ diphenylamine), IS 53A, 284*
(+ hydrazine, tetraphenyl-), IS 53A, 282*

α-Lead dioxide, E 107, 931

β-Lead dioxide, E 107, 931

Lead oxide-boron oxide glass, GL 4, 50

Lead oxide-iron oxide-boron oxide glass, GL 4, 58

Lead-sodium alloy, IS 56A, 314

DL-Leucine,
irradiated, PC 62, 792*
acetyl-, irradiated, PC 62, 787*
glycyl-, irradiated, PC 62, 785*

L-Leucine, JA 81, 2871
chloroacetyl-, irradiated, PC 62, 787*
N-(2,4-dinitrophenyl)-, J 35, 1659

Levulic acid, AK 13, 429
3-bromo-, AK 13, 429
5-bromo-, AK 13, 429
methyl ester, AK 14, 468
3,5-dibromo-, AK 13, 429
5-hydroxy-, AK 14, 468

Levulinic acid, HB 322

Lexan, irradiated, PS 47, 182*

Libocedroquinone, OR 23, 1200

Lignin, NT 196, 986

Ligustilide, TT 19, 1279

Limaspermin, H 45, 2262

cis-Linalool oxide, H 46, 1532

trans-Linalool oxide, H 46, 1532

Linoleic acid methyl ester, CN 37, 777

Linolenic acid methyl ester, V 337

Linseed oil, AC 34, 1137; CN 37, 780; HB 701

Lithium, JA 85, 485; PY 33, 515*
(+ cycloöctatetraenyl), JA 85, 2362*
benzyl-, JA 85, 2329
butyl-, JA 85, 3518
t-butyl-
(+ lithium, ethyl-), JA 85, 485
1,1-diphenylhexyl-, JA 85, 4043
(+ zinc, diethyl-), JA 85, 4043
diphenylmethyl-, JA 85, 2328
ethyl-
(+ lithium, *t*-butyl-), JA 85, 485
triphenylmethyl-, JA 85, 2328
vinyl-, JA 83, 1307

Lithium aluminum deuteride
(+ pyridine), JA 85, 2238
(+ pyridine-4-d_1), JA 85, 2238

Lithium aluminum hydride, P 32, 1009
(+ pyridine), JA 85, 2238
(+ pyridine-4-d_1), JA 85, 2238

Lithium chloride, IS 50, 258

Lithium fluoride, SD 5, 86; SD 9, 78*; SD 11, 121*; SD 17, 81*
irradiated, SD 5, 270*

Lithium fluoride-manganese, P 38, 572*

Lithium hydrazinium sulfate, irradiated, SD 24, 560*

Lithium hydrazinium-d sulfate, irradiated, SD 24, 561*

Lithium hydride, SD 19, 142*

Lithium nitrate, irradiated, P 35, 1354

Lithium oxide-boron oxide glass, GL 4, 41

Lithium sulfate, P 31, 1446; SD 17, 27*

Lithium tetrakis (*N*-dihydropyridyl)-aluminate, JA 85, 2238

Longifolane, TT 9, 3

Longifolene, TT 9, 2; TT 19, 2286
ω-methoxycarbonyl-, TT 19, 2286

Longispinogenin triacetate, OR 27, 4517

Lucaconine, J 34, 456

Luciduscline. J 34, 456

Lumichrome, AB 103, 246*

α-Lumicolchicine, JA 85, 808

β-Lumicolchicine, CC 28, 3408; JA 85, 804; JA 85, 808
tetrahydro-, CC 28, 3408

γ-Lumicolchicine, JA 85, 804

Lumiflavin, AK 19, 111*

Lumiflavin semiquinone, AB 103, 240*

Lunacrine, JA 81, 3066; V 325

Lunidin, H 46, 2331

Lunidonin, H 46, 2332

Lunine, JA 81, 3066

Lupane, F[5]29, 1139
13β,28-epoxy-, TT 19, 1745

20-Lupene,
3β,28-diacetoxy-, F[5]29, 1137
3β-hydroxy-, F[5]29, 1139

Lupinus varius L. base, AU 12, 478

2,6-Lutidine, V 169; ZA 170, 190
(+ dibenzyl ketone, α-chloro- + furan), JA 84, 4980

2,6-Lutidine-3-sulfonic acid sodium salt, OR 24, 1151

2,6-Lutidine-4-sulfonic acid sodium salt, OR 24, 1151

Lycodine, CN 36, 904; CN 39, 2270
N-acetyl-, CN 39, 2270

Lycofoline, CN 40, 237

Lycopene, C(1960), 2876

Lysine, irradiated, FS 59, 2214*

DL-Lysine hydrochloride, irradiated, PC 62, 797*

L-Lysine, *N*-(2,4-dinitrophenyl)-, J 35, 1659

α-D-Lyxose tetraacetate, JA 80, 6101

M

Magnesium
(+ cobalt + perchlorate), P 32, 555
allyl-, bromide, FD 34, 187; JA 81, 1769
bis(3,3-dimethylbutyl)-, JA 85, 2167
butenyl-, bromide, FD 34, 187; JA 83, 494
3-butenyl-1,1-d_2-, bromide, JA 82, 2647
3-butenyl-2,2-d_2-, bromide, JA 82, 2647
decaboranyl-, iodide, C(1962), 3421
3,3-dimethylallyl-, bromide, FD 34, 187; JA 84, 2010
3,3-dimethylbutyl-, chloride, JA 85, 2167
2-phenyl-3-methylbutyl-, chloride, JA 85, 2168
pyrryl-, chloride, JA 85, 2859

Magnesium hydroxide, J 36, 474

Magnesium hypophosphite, irradiated, C(1963), 251*

Magnesium oxide-O^{17}, SD 24, 591

Magnesium oxide-chromium, P 38, 2917*

Magnesium oxide-manganese dioxide, SD 24, 592

Magnesium perchlorate, P 37, 1580

Magnesium phosphite hexahydrate, irradiated, P 36, 1789*

Magnocurarin, C-O-dehydro-, iodide, N 668, 154

DL-Magnocurarin iodide, N 668, 154

Malachite Green
(+ chloranil), PC 67, 2637*

Maleic acid
diallyl ester, V 262
diethyl ester, V 212
hydrazide, ZA 170, 209
potassium hydrogen salt, P 31, 852; SA 16, 855
irradiated, JA 84, 4449*
dibromo-
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*

Maleic anhydride, V 48
(+ anthraquinone, diamino-), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-), PC 67, 2638*
(+ pyridazine), TT 19, 1239

Maleimide, *N*-phenyl-
(+ cyclobutane, tetramethylene-), JA 85, 2270

Maleopimaric acid methyl ester, CN 41, 1118

Malic acid, JA 81, 545
(+ cesium), PC 66, 1703
dipotassium salt, JA 81, 543
disodium salt, PC 63, 706
(+ deuterium oxide), PC 63, 706
monopotassium salt, JA 81, 545

threo-DL-Malic acid-3-d_1, JA 83, 3635
dipotassium salt, JA 82, 995

L-Malic acid-d, JA 81, 545
dipotassium salt, JA 81, 543

Malonic acid, HB 323; P 34, 1086*
(+ nickel), FD 34, 91
irradiated, JA 82, 767*; P 31, 1689*; P 38, 2919*
diethyl ester, V 181
monopotassium salt, irradiated, P 39, 1145*
methyl-, irradiated, P 36, 176*

Malonic acid-d, irradiated, P 35, 1911*

Malononitrile
(+ tropone), J 36, 38
(+ tropone, 2-phenyl-), J 36, 41

Malononitrile-d_1, P 31, 1282

Maltose, OR 28, 564

Manganate, RL A254, 106*

Manganese, JA 81, 1851*; NT 198, 147*; P 29, 602; P 29, 791*; P 33, 605*; P 35, 1093*; P 36, 379*; P 37, 3001*; P 38, 572*; P 38, 973*; PC 66, 677*; PC 66, 2716*;

PC 67, 2527*; PY 33, 368*; RL A247, 144*; SD 13, 57*
(+ adenosine triphosphate), B 237, 178
(+ fluoride), P 35, 1351*

Manganese (II) fluoride, SD 10, 107

Manganese pentacarbonyl, π-allyl-, JA 83, 1604

Manganese sulfate, PC 66, 676*
(+ calcium carbonate), PC 66, 677*
(+ calcium fluoride), PC 66, 677*
(+ calcium pyrophosphate), PC 66, 677*
tetrahydrate, Z 21, 314

α-D-Mannopyranose, 1-*O*-benzoyl-2-iodo-2-deoxy-, triacetate, CN 40, 1927

D-Mannose, 2-*O*-acetyl-, CN 41, 401

α-D-Mannose pentaacetate, C (1963), 1540; JA 80, 6101

β-D-Mannose
1,2-(benzyl orthoacetate), CN 41, 401
1,2-(methyl orthoacetate) 3,4,6-triacetate, CN 41, 400; CN 41, 3076
pentaacetate, C (1963), 1540; JA 80, 6101

Manoyl oxide, TT 18, 173

Marlex, PS 46, 190

Marlex 9, PS 50, 355*

Marlex 50, PS 27, 68; PY 31, 1866
irradiated, P 28, 1174*; P 33, 397*; P 33, 406*; P 36, 576*

Melanin, AB 86, 227*; AB 100, 173*
(+ ascorbic acid), AB 86, 227*

4-(8)-*p*-Menthen-1-ol-3-one, F[5]29, 1814

Menthol, V 281

Mercury,
bis(perfluoromethylethyl)-, OR 28, 185
bis(perfluorovinyl)-, SA 17, 970
bis(2,2,2-trifluoroethyl)-, OR 25, 106
diethyl-, JA 82, 35; P 30, 1424
diisopropenyl-, IC 2, 1262
diisopropyl-, P 30, 1424
dimethyl-, FD 34, 149; P 30, 1424
irradiated, P 28, 1171*
di-*cis*-propenyl-, IC 2, 1262
di-*trans*-propenyl-, IC 2, 1263
dipropyl-, P 30, 1424
divinyl-, PC 65, 225

Mercury (II) acetate,
2-hydroxyethyl-, JA 80, 4825
2-methoxyethyl-, JA 80, 4825

Mercury (II) chloride, ethyl-, P 39, 1331

Mercury (II) iodide, ethyl-, P 39, 1331

Meribicyclo-epidithio-2,4-heptadiene-6-thione, N 625, 45

Meribicyclo-epidithio-1,3-pentadiene-5-thial, N 625, 45

Merocyanine,
[2-{3-ethylbenzothiazolylidene}]-[4-{1-phenyl-3-methyl-5-pyrazolone}]-hexamethine-
(+ chloranil), PC 67, 2637*
[2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine-
(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ bromanil), PC 67, 2638*
(+ chloranil), PC 67, 2637*
(+ iodine), PC 67, 2638*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ maleic anhydride), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*
[2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-
(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ bromanil), PC 67, 2638*
(+ chloranil), PC 67, 2637*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ phthalic anhydride, tetrabromo-), PC 67, 2638*
(+ phthalic anhydride, tetrachloro-), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*
[2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-
(+ acenaphthaquinone), PC 67, 2638*
(+ anthraquinone, diamino-), PC 67, 2638*
(+ bromanil), PC 67, 2638*
(+ chloranil), PC 67, 2637*
(+ maleic acid, dibromo-), PC 67, 2638*
(+ phthalic anhydride, tetrabromo-), PC 67, 2638*
(+ phthalic anhydride, tetrachloro-), PC 67, 2638*
(+ resorcinol, trinitro-), PC 67, 2638*

Mesitylene, FD 34, 170; JA 83, 1840; P 34, 2208; V 241
iodo-, P 38, 1408
trinitro-, potassium salt, JA 83, 1298*

Mesityl oxide, HB 160; IC 1, 897; N 625, 47
(+ methane, tetranitro-), irradiated, SC 16, 1807*
(+ palladium), IC 1, 897
(+ palladium + triphenylphosphine), IC 1, 897

(+ platinum), IC 1, 898

Mesonaphthodianthrene, CN 38, 324*

Mesoporphyrin-2 dimethyl ester, C(1961), 3469

Mesoporphyrin-9, JA 83, 3746
dimethyl ester, C(1961), 3469

Mesoxalic acid sodium salt, FS 55, 1072

Metaboric acid, P 32, 961

[2,2]Metacyclophane, FD 34, 55; JA 82, 6303; P 37, 122

Methacrylamide, V 71
irradiated, CP 60, 951*; PS 56, 252*; PS 61, 337*

Methacrylic acid, J 33, 428; PS 48, 41*; PS 55, 184; V 62
(+ oxygen), PS 48, 41*
irradiated, NT 200, 1285*
ethyl ester, V 135
methyl ester, FS 54, 412*; JA 83, 923; PS 55, 184; V 113
irradiated, CP 57, 673*; CP 60, 951*
sodium salt, FS 58, 973*; PS 55, 184
irradiated, PS 57, 676*

Methacrylic acid allyl ester-glycol dimethacrylate copolymer, PS 34, 203*

Methacrylic acid methyl ester-acrylic acid, 2-chloromethyl-, methyl ester copolymer, PS A1, 2720

Methacrylic acid methyl ester-glycol dimethacrylate copolymer, PS 34, 203*

Methacrylic acid methyl ester-methacrylic acid chloromethyl ester copolymer, PS A1, 2720

Methacrylic acid methyl ester-styrene copolymer, PS 62, 200; PS 62, S11

Methacrylic acid methyl ester-*p*-xylylene copolymer, PS 62, S9

Methacrylonitrile, FS 54, 412*; V 97
irradiated, CP 57, 673*; CP 60, 951*

α-Methacrylonitrile, JA 83, 1301

Methallyl iodide, JA 82, 3012

Methane, FS 54, 317; JA 85, 1574; P 34, 1426*; P 39, 2157*; PC 66, 2606*
irradiated, P 28, 1171*; P 39, 2156*; PC 63, 1767* PC 66, 2673*
bis(2,2′-biphenylene)-, P 38, 2029*
bis(diethoxyphosphonyl)-, JA 84, 4456
bis(diethoxyphosphonyl)-
(+ sodium), JA 84, 4455
bis(4-hydroxy-3,5-di-*t*-butylphenyl)-, HB 577
bis(2-methylphenyl)-, HB 464
bis(4-methylphenyl)-, HB 464
bis(pentamethylphenyl)-, HB 466
bis(trimethylsilyl)-, ZC 321, 16
chlorofluoro-, F[5]28, 409
cyclopropylphenyl-, JA 85, 74
cyclopropyl-*o*-tolyl-, JA 85, 74
difluoro-, P 37, 2915
diisopropoxy-, HB 634
dimesityl-, HB 465
dimethoxy-, HB 630
diphenyl-, HB 95
fluorotrichloro-, AC 33, 218
2-furoylperfluorobutyryl-, HB 627
phenylnaphthylbenzyl-, HB 315
tetraethyl-, JA 84, 674
tetranitro-
(+ acetone, benzoyl-), irradiated, SC 16, 1807*
(+ cyclohexene), irradiated, SC 16, 1808*
(+ mesityl oxide), irradiated, SC 16, 1807*
(+ styrene), irradiated, SC 16, 1808*
2-thenoylperfluorobutyryl-, HB 629
triacetyl-, SC 13, 1387
trichloromonofluoro-, PC 63, 1702
triethoxy-, HB 633
triphenyl-, HB 97; J 36, 876*
(+ chromium), TT 19, 1134*

Methane-d, P 39, 2157*

Methane-d_4, P 34, 1426*

Methanesulfenyl chloride,
trifluoro-
(+ ethylene, chlorotrifluoro-), JA 84, 3150
(+ ethylene, 1,1-difluoro-), JA 84, 3150
(+ ethylene, trifluoro-), JA 84, 3150
(+ methyl trifluorovinyl ether), JA 84, 3150
(+ propene, hexafluoro-), JA 84, 3150
(+ vinyl chloride), JA 84, 3150

Methanethiol,
trifluoro-
(+ ethylene, chlorotrifluoro-), JA 83, 843
(+ ethylene, 1,1-difluoro-), JA 83, 843
(+ ethylene, tetrafluoro-), JA 83, 843
(+ ethylene, trifluoro-), JA 83, 843
(+ propylene, hexafluoro-), JA 83, 843
(+ vinyl methyl ether, trifluoro-), JA 83, 843

Methanol, CH 14, 149; CN 41, 1482; FS 54, 1308*; HB 123; JA 80, 3164; JA 85, 386*; M 2, 520; P 30, 1542; V 1
(+ ethylene glycol), PC 67, 1668
(+ hydrochloric acid), HB 124
(+ silicon tetrafluoride), CN 41, 1482
(+ titanium + hydrogen peroxide), C(1963), 3121*

irradiated, FS 54, 1309*; JA 84, 2*; JA 85, 385*; P 28, 1176*; P 30, 43*; P 30, 697*
sodium salt, irradiated, P 30, 697*
diphenyl-, HB 544
triphenyl-, HB 546

Methanol-d, irradiated, P 30, 43*; P 30, 697*; JA 85, 386*

Methanol-d_1, irradiated, JA 84, 2*; JA 85, 386*

Methanol-1-d_1, JA 84, 3768

Methanol-C-d_3, irradiated, JA 84, 2*; JA 85, 385*; P 30, 697*

Methanol-C^{14}, irradiated, JA 84, 2*

Methanol-t, P 35, 760*

Methanol lignin, NT 196, 986

Methazonate, OR 28, 2920

Methazonic acid, OR 28, 2919

Methemocyanin, N 653, 151*

Methine, 1,1-bis(dimethylamino)-, perchlorate, ZP 224, 67

Methionine,
irradiated, P 37, 16*; PC 62, 793*
N-acetyl-, irradiated, P 37, 14*; PC 62, 788*

DL-Methionine, JA 81, 2872
glycyl-, PC 63, 303
irradiated, PC 62, 786*; PC 62, 788*

L-Methionine, *N*-(2,4-dinitrophenyl)-, J 35, 1659

Methoxy, JA 85, 386*

Methoxy-d_3, JA 85, 386*

Methoxy pentafluorosulfate, trifluoro-, IC 1, 218

Methyl, P 36, 1664*; PS 55, 577*

Methylal, J 32, 655

Methylamine, J 35, 1547
(+ cesium), P 38, 2033*
(+ rubidium), P 38, 2033*
hydrochloride, CA 44, 521; P 33, 558

Methylamine-*N*-d_2, J 35, 1547

Methyl amyl ketone, HB 157

Methyl α-L-arabinoside triacetate, C(1963), 1540

Methyl β-L-arabinoside triacetate, C(1963), 1540

Methyl 5-*O*-benzoyl-2,3-dideoxy-2-ene-D-*glycero*-pentofuranoside, OR 28, 437

Methyl 4,6-*O*-benzylidene-3-deoxy-3-phenylazo-α-D-glucoside, C(1961), 4168
acetate, C(1961), 4168

Methyl 4,6-*O*-benzylidene-D-glucoside phenylhydrazone acetate, C(1962), 852

Methyl *t*-butyl ketone, J 36, 818
phenylhydrazone, JA 85, 3626

Methyl chalcoside, JA 84, 1066

Methyl chloride,
irradiated, FS 58, 1480*; P 28, 1178*
diphenyl-, V 176

Methyl chloromethyl ether, J 33, 1607

Methyl chlorophyllide a, JA 85, 3813

Methyl chlorophyllide b, JA 85, 3813

Methyl cyanide, M 3, 31; P 29, 1106

Methyl cyclohexyl ketone, F[5]30, 257

Methyl cyclopropyl ketone, HB 343

Methyl 2,2-dimethoxyethyl ketone, CH 14, 150

Methyl (3,4-dimethyl-3,4-dihydroxyhexane-2,5-dione) cyclic phosphate, JA 85, 3468

cis-Methyl 1-dodecenyl ether, JA 85, 62

trans-Methyl 1-dodecenyl ether, JA 85, 62

N,N'-Methylenebisacrylamide, irradiated, PS 48, 200*

2,2'-Methylenebis-(4-methyl-6-*t*-butylphenol), HB 576

Methylene Blue, PC 66, 938*
irradiated, C(1962), 2056*

Methylene chloride, OR 24, 95
irradiated, P 30, 697*

Methylene chloride-d_1, P 31, 1282

Methylenediamine,
N,N,N',N'-tetramethyl-
(+ aluminum, trimethyl-), CN 41, 1365
(+ aluminum hydride trimethylamine), CN 41, 1366

Methylene dicyanide, P 29, 1106

Methylene Green, irradiated, C (1962), 2056*

Methylene Violet, P 37, 1480*

Methylenimino, P 36, 1940*

Methyl ethyl acetal, J 33, 1609

Methyl ethyl ether, JA 80, 4825

Methyl ethyl formal, J 32, 655; J 33, 1608

Methyl ethyl ketone, AK 21, 507; CH 14, 150; J 35, 1047; V 76
irradiated, P 30, 697*
2,4-dinitrophenylhydrazone, OR 24, 95

Methyl ethyl sulfide, V 46

Methyl 2-furyl ketone, FS 55, 519

Methyl α-D-galactoside tetraacetate, C (1963), 1540

Methyl β-D-galactoside tetraacetate, C (1963), 1540

Methyl D-glucoside, irradiated, PC 67, 2186*

Methyl α-D-glucoside tetraacetate, C (1963), 1540

Methyl β-D-glucoside tetraacetate, C (1963), 1540

Methyl iodide, CR 63, 107; F [5] 25, 1633; P 37, 1374; P 39, 187
(+ phosphine, bis[diethylamino]phenyl-), C (1962), 3985

Methyl-C^{13} iodide, G 75, 26; P 35, 724

Methyl isobutyl ketone, J 36, 818; V 139

Methyl isonitrile, P 29, 1023; P 35, 1533

Methyl isopropyl ketone, J 35, 1047
phenylhydrazone, JA 85, 3626

Methyl α-D-mannoside tetraacetate, C (1963), 1540

Methyl β-D-mannoside tetraacetate, C (1963), 1540

Methyl mercaptan, CN 36, 1305; CR 60, 390

Methyl nitrite, P 30, 907; P 32, 1879

Methyl α-L-novioside, 3-*O*-carbamoyl-, C (1963), 1542

Methyl β-L-novioside, 3-*O*-carbamoyl-, C (1963), 1542

Methyl (1-oxyl-2,6-di-*t*-butyl-4-phenyl) selenide, N 657, 7*

Methyl pentafluorosulfate, trifluoro-, IC 1, 218

Methyl pheophorbide a, JA 85, 3811

Methyl pheophorbide b, JA 85, 3811

Methyl pheophorbide-d b, JA 85, 3811

Methyl propyl ketone, AK 21, 510; HB 156; J 36, 818

Methyl propyl sulfide, OR 28, 1954

Methyl 2-thienyl sulfide, AK 13, 289

Methyl 3-thienyl sulfide, AK 13, 287

Methyl 3-thienyl sulfone, AK 13, 284

Methyl trifluorovinyl ether,
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150

Methyl vinyl ether
(+ pregnenolone, 16-dehydro-, acetate), OR 28, 2500

Methyl vinyl ketone, CA 44, 514; P 37, 1953

Methyl vinyl sulfide, PC 67, 111

Methyl vinyl sulfone, V 35

Methyl vinyl thioether, V 36

Methyl β-D-xylothiapyranoside, OR 28, 1730

Methyl α-*p*-xylyl ether, HB 635

Metmyoglobin, B 237, 1814

Micrococcus lactilyticus, NT 196, 434*

Microsomes, B 237, PC 3843*

Molybdanyl orthophosphate monohydrate, ZC 312, 49; ZC 312, 51

Molybdenum disulfide, NT 198, 1266*

Molybdenum hexacarbonyl
(+ phosphine, tris[dimethylamino]-), IC 2, 941

Molybdenum hexafluoride, JA 81, 1085

Molybdenum tetracarbonyl
(+ norbornadiene), C (1961), 2039

Molybdenum tricarbonyl

(+ cycloheptatriene), C(1961), 2039
(+ cycloheptatriene, 1,1,3,4-tetramethyl-), C(1961), 2039
(+ 1,3,5-cycloöctatriene), IC 2, 809
π-cyclopentadienyl-, C(1962), 3657
(+ tungsten tricarbonyl, π-cyclopentadienyl-), C(1962), 3657
cyclopentadienyliodo-
(+ phosphine, tris[dimethylamino]-), IC 2, 944

Molybdenum trioxide
dihydrate, C(1958), 888
1.1-hydrate, C(1958), 888

Monactin, H 45, 621

Monascoflavin, J 33, 1313; TT 18, 1200
dihydro-, J 33, 1313
hexahydro-, J 33, 1313
octahydro-, J 33, 1313

Monascorubin, J 33, 1311; TT 18, 1177
dihydro-, J 33, 1312

1-Monoacetin, C(1963), 136

Monocrotaline, AU 16, 240

1-Monopropionin, C(1963), 136

1-Monostearin, C(1963), 136

2-Monostearin, C(1963), 136

Montmorillonite, NT 199, 61*

Morolic acid methyl ester acetate, OR 27, 4514

Morpholine, HB 285; V 83
2-phenylmercapto-2,5-dimethyl-3,6-diketo-, BE 96, 2411

Morpholinium tetracyanoquinodimethane, P 35, 1004*

Muco-1,3-inosadiamine, hexaacetyl-, N 669, 80

Muco-3-inosamine, hexaacetyl-, BE 96, 2050

Mucoinosite,
1,2;4,5-di-*O*-isopropylidene-6-*O*-acetyl-3-desoxy-3-nitro-, BE 94, 3077
penta-*O*-acetyl-3-desoxy-3-nitro-, BE 94, 3076

Mucoinositol hexaacetate, CN 40, 871

Multiflorine, AU 12, 478

Mushroom tyrosinase, B 238, 1706*

Mycarose, TT 18, 1268
diacetyl-, TT 18, 1267

Myoglobin, B 237, 1814
(+ hydrogen peroxide), B 238, 1521*

Myo-4,5-inosadiamine, hexaacetyl-, N 669, 78

DL-Myo-1-inosamine, hexaacetyl-, BE 94, 3074

2-Myoinosamine, hexa-*O*-acetyl-, JA 83, 2008

DL-Myoinosite, penta-*O*-acetyl-1-desoxy-1-nitro-, BE 94, 3075

Myoinositol, JA 80, 6104
hexaacetate, JA 82, 3714
glycerophosphoryl-, heptaacetate, JA 82, 3714

N

Naphthacene, C(1959), 949*; T 9, 933*

1-Naphthaldehydimine, *N*-methyl-2-hydroxy-, JA 85, 696

Naphthalene, F[5]26, 1712*; HB 101; HB 469; JA 83, 1840; JA 84, 4409*; P 34, 917*; P 36, 2443; P 38, 1451*; P 39, 402*; SA 18, 785*
1-bromo-, HB 382
1-chloro-, HB 393
2,3-dibromo-, V 244
cis-9,10-dihydro-, JA 85, 3297
1,4-dimethoxy-, SA 19, 698
1,6-dimethyl-, HB 104
2,3-dimethyl-, HB 105
2,6-dimethyl-, HB 106
1-(3,5-dimethyl-4-hydroxybenzyl)-, V 332
1,4-dinitro-, V 245
1,6-dinitro-, C(1963), 1973
1,7-dinitro-, C(1963), 1973
1,7-diphenyl-, OR 28, 2405
1,8-diphenyl-, OR 28, 2405
2-ethyl-, V 292
1-methyl-, AC 33, 1085; HB 102; HB 470
2-methyl-, AC 33, 1085; HB 103; HB 471
1-nitro-, AU 16, 1109
2-nitro-, AU 16, 1114
1-phenyl-, OR 28, 2405
tetrahydro-, HB 100
vinyl-, PS 60, S53*

Naphthalene-d, P 39, 400*

Naphthalene-d_8, P 37, 1148*

(+ cycloheptatriene), C(1961), 2039
(+ cycloheptatriene, 1,1,3,4-tetramethyl-), C(1961), 2039
(+ 1,3,5-cycloöctatriene), IC 2, 809
π-cyclopentadienyl-, C(1962), 3657
(+ tungsten tricarbonyl, π-cyclopentadienyl-), C(1962), 3657
cyclopentadienyliodo-
(+ phosphine, tris[dimethylamino]-), IC 2, 944

Molybdenum trioxide
dihydrate, C(1958), 888
1.1-hydrate, C(1958), 888

Monactin, H 45, 621

Monascoflavin, J 33, 1313; TT 18, 1200
dihydro-, J 33, 1313
hexahydro-, J 33, 1313
octahydro-, J 33, 1313

Monascorubin, J 33, 1311; TT 18, 1177
dihydro-, J 33, 1312

1-Monoacetin, C(1963), 136

Monocrotaline, AU 16, 240

1-Monopropionin, C(1963), 136

1-Monostearin, C(1963), 136

2-Monostearin, C(1963), 136

Montmorillonite, NT 199, 61*

Morolic acid methyl ester acetate, OR 27, 4514

Morpholine, HB 285; V 83
2-phenylmercapto-2,5-dimethyl-3,6-diketo-, BE 96, 2411

Morpholinium tetracyanoquinodimethane, P 35, 1004*

Muco-1,3-inosadiamine, hexaacetyl-, N 669, 80

Muco-3-inosamine, hexaacetyl-, BE 96, 2050

Mucoinosite,
1,2;4,5-di-*O*-isopropylidene-6-*O*-acetyl-3-desoxy-3-nitro-, BE 94, 3077
penta-*O*-acetyl-3-desoxy-3-nitro-, BE 94, 3076

Mucoinositol hexaacetate, CN 40, 871

Multiflorine, AU 12, 478

Mushroom tyrosinase, B 238, 1706*

Mycarose, TT 18, 1268
diacetyl-, TT 18, 1267

Myoglobin, B 237, 1814
(+ hydrogen peroxide), B 238, 1521*

Myo-4,5-inosadiamine, hexaacetyl-, N 669, 78

DL-Myo-1-inosamine, hexaacetyl-, BE 94, 3074

2-Myoinosamine, hexa-*O*-acetyl-, JA 83, 2008

DL-Myoinosite, penta-*O*-acetyl-1-desoxy-1-nitro-, BE 94, 3075

Myoinositol, JA 80, 6104
hexaacetate, JA 82, 3714
glycerophosphoryl-, heptaacetate, JA 82, 3714

N

Naphthacene, C(1959), 949*; T 9, 933*

1-Naphthaldehydimine, *N*-methyl-2-hydroxy-, JA 85, 696

Naphthalene, F[5]26, 1712*; HB 101; HB 469; JA 83, 1840; JA 84, 4409*; P 34, 917*; P 36, 2443; P 38, 1451*; P 39, 402*; SA 18, 785*
1-bromo-, HB 382
1-chloro-, HB 393
2,3-dibromo-, V 244
cis-9,10-dihydro-, JA 85, 3297
1,4-dimethoxy-, SA 19, 698
1,6-dimethyl-, HB 104
2,3-dimethyl-, HB 105
2,6-dimethyl-, HB 106
1-(3,5-dimethyl-4-hydroxybenzyl)-, V 332
1,4-dinitro-, V 245
1,6-dinitro-, C(1963), 1973
1,7-dinitro-, C(1963), 1973
1,7-diphenyl-, OR 28, 2405
1,8-diphenyl-, OR 28, 2405
2-ethyl-, V 292
1-methyl-, AC 33, 1085; HB 102; HB 470
2-methyl-, AC 33, 1085; HB 103; HB 471
1-nitro-, AU 16, 1109
2-nitro-, AU 16, 1114
1-phenyl-, OR 28, 2405
tetrahydro-, HB 100
vinyl-, PS 60, S53*

Naphthalene-d, P 39, 400*

Naphthalene-d_8, P 37, 1148*

Naphthalene-4a-carboxylic acid,
syn-cis-1,4,4a,5,8,8a-hexahydro-2,6-dimethoxy-5,7-dimethyl-1,4-diketo-, methyl ester, C(1963), 3040
syn-cis-1,4,4a,5,8,8a-hexahydro-6-methoxy-5,7-dimethyl-1,4-diketo-, methyl ester, C(1963), 3040
syn-cis-1,4,4a,5,8,8a-hexahydro-6-methoxy-3,5,7-trimethyl-1,4-diketo-, methyl ester, C(1963), 3040

1,5-Naphthalenediol, SA 19, 698

1,8-Naphthalenediol, SA 19, 698

Naphthalene-4,7-disulfonic acid, 2,6-di-*t*-butyl-, dimethyl ester, CN 40, 1740

2-Naphthalenethiol
(+ 2,4-hexadiene, 2,5-dimethyl-), OR 27, 2442

Naphthalenide, JA 84, 4409*
sodium, JA 83, 1331*

Naphthazarin, P 38, 2040*

trans-1,4;5,8-Naphthodioxane, OR 27, 3187

Naphtho(2,1-b)furan,
1,2,3a,4,5,9b-hexahydro-8-methoxy-*trans*-3a,9b-dimethyl-, OR 26, 190
1,2,3a,9b-tetrahydro-8-methoxy-*cis*-3a,9b-dimethyl-, OR 26, 190
1,2,3a,9b-tetrahydro-8-methoxy-*trans*-3a,9b-dimethyl-, OR 26, 190

2-Naphthoic acid, 1-diacetylamino-3-acetamido-4-(α-ethoxycarbonylbenzyl)-, ethyl ester, OR 27, 1056

2-Naphthol-6,8-disulfonic acid, H 45, 2079
1-bromo-, H 45, 2080

1,4-Naphthoquinone, HB 263
2-methyl-, NT 195, 248*
2-methyl-3-hydroxy-, NT 195, 248*
4a,5,8,8a-tetrahydro-6-methoxy-5,7-dimethyl-, C(1963), 3040

Naphthosemiquinone,
hydroxychloro-, J 33, 1438*
monomethyl-, J 33, 1437*

1,4-Naphthosemiquinone, C(1961), 4276*
2-hydroxy-, NT 197, 74*
2-hydroxy-3-chloro-, NT 197, 74*
2-hydroxy-3-methyl-, NT 197, 74*
2-methyl-, C(1961), 4276*

1-Naphthylacetic acid methyl ester, HB 368

2-Naphthylamine, phenyl-, O 13, 451*

Neobetanidin, di-*O*-acetyl-, trimethyl ester, H 45, 643

Neocarborane, IC 2, 1318
decachloro-, IC 2, 1318

Neodymium hexaboride, SD 24, 941

Neohexane, P 39, 2171*

Δ-Neohexanor-3(5)-dammarene, 20-keto-, F[5]29, 1837

1,4-Neo-inosadiamine,
di-*N*-carbobenzoxytetra-*O*-acetyl-, JA 83, 2008
hexa-*O*-acetyl-, JA 83, 2008

Neo-2-inosamine, hexaacetyl-, BE 96, 2050

Neo-inositol, tetra-*O*-acetyl-1,4-dideoxy-1,4-dinitro-, JA 83, 2008

Neopentane, P 39, 2169*; P 39, 2185*
irradiated, P 28, 1175*

Neopine, F[5]30, 589; F[5]30, 2189

Neopinone, F[5]30, 2190

Neoreserpic acid
methyl ester, JA 83, 4817
3′,4′,5′-trimethoxybenzoate, JA 83, 4817

Neosarsasapogenin, JA 81, 1688

Neosmilagenin, JA 81, 1688

Neptunium hexafluoride, P 32, 57*

Nerbowdin,
3-(*O*-acetyl)-, H 46, 811
O,*O*-diacetyl-, H 46, 812

New Methylene Blue, irradiated, C(1962), 2056*

Nickel, P 36, 2723; SD 8, 490*
(+ β-alanine), FD 34, 91
(+ 1,3,5-cycloheptatriene, 1-[2-naphthylamino]-7-[2-naphthylimino]-), JA 83, 3715
(+ ethylene, 1,1,2-tricyano-2-phenyl-), BE 95, 2761*
(+ ethylenediamine), FD 34, 91
(+ ethylenediaminetetraacetic acid disodium salt), FD 34, 94
(+ ethylenediaminetetraacetic acid tetrasodium salt), FD 34, 94
(+ histidine), FD 34, 89

(+ iminodiacetic acid), FD 34, 91
(+ malonic acid), FD 34, 91
(+ norvaline), FD 34, 91
(+ L-proline), FD 34, 89
(+ 1,2-propylenediaminetetraacetic acid), FD 34, 94
(+ salicylaldimine, 5-methyl-*N*-*s*-butyl-), JA 85, 821
(+ sarcosine), FD 34, 91
(+ troponeimine, *N*,*N'*-bis[4-{1,3-butadienyl} phenyl]amino-), FD 34, 82
(+ troponeimine, *N*,*N'*-bis[ethylamino -), P 37, 353
(+ troponeimine, *N*,*N'*-bis[methylamino]-), P 37, 349
(+ troponeimine, *N*,*N'*-bis[2-naphthylamino]-), P 37, 355
(+ troponeimine, *N*,*N'*-bis[4-phenylamino-phenyl]amino-), P 39, 3515
(+ troponeimine, *N*,*N'*-bis[4-β-styryl-phenyl]amino-), P 39, 3515
(+ troponeimine, *N*,*N'*-bis[4-styrylphenyl-amino]-), P 37, 357
(+ troponeimine, *N*,*N'*-bis[4-vinylphenyl] amino-), P 39, 3514
(+ troponeimine, γ-bromo-*N*,*N'*-dimethyl-amino-), P 39, 3514
(+ troponeimine, *N*,*N'*-diethyl-γ-[4-penta-fluorosulfophenylazo]amino-), JA 85, 2692
(+ troponeimine, *N*,*N'*-di-[1-naphthyl]-amino-), JA 85, 404
(+ troponeimine, *N*,*N'*-di-[3-pentafluoro-sulfophenyl]amino-), JA 85, 2692
(+ troponeimine, *N*,*N'*-di-[3-phenanthryl] amino-), P 39, 3516
(+ troponeimine, *N*,*N'*-di-[6-quinolyl] amino-), FD 34, 80
(+ troponeimine, *N*,*N'*-di-[*p*-tolyl]-amino-), JA 85, 398
(+ troponeimine, *N*,*N'*-di-[3-trifluoro-methoxyphenyl]amino-), JA 85, 2692
(+ valeric acid, 1-amino-), FD 34, 91

Nickel-silica catalyst, P 35, 379*

Nickel tetracarbonyl
(+ phosphine, tris[dimethylamino]-), IC 2, 941

Nicotinamide
methiodide
(+ dithionite), TT 3, 75
N-methyldihydro-, TT 3, 75

Nicotinamide-2-d_1, TT 3, 75

Nicotinamide-6-d_1, TT 3, 75

Nicotine, R 82, 1161; V 269

Nicotyrine, dihydro-, R 82, 1161

Nidulin, OR 26, 3011
dihydro-, OR 26, 3011

Nile Blue sulfate, SC 15, 1205*

Ninhydrin, P 28, 776*
(+ glycine), SC 17, 278*

Niobium, PY 32, 866*
(+ fluoride), JA 85, 3035

Nitrate, M 2, 544; M 2, 553
(+ beryllium + cobalt), P 32, 554
(+ copper + ethylenediamine), CP 60, 370*
(+ platinum + pyridine), CN 39, 326

Nitric acid, M 2, 553
monohydrate, G 75, 491

Nitric oxide, P 32, 1254*
(+ chromium + cyanide), P 34, 105*
(+ diethylamine), JA 82, 97
(+ poly[ethylene, tetrafluoro-]), irradiated, P 35, 1654*
(+ poly[methacrylic acid butyl ester]), NT 198, 579*
(+ poly[methacrylic acid ethyl ester]), NT 198, 579*
(+ poly[methacrylic acid methyl ester]), NT 198, 579*
(+ Teflon), irradiated, P 30, 402*
bis(4-nitrophenyl)-, ZP 218, 117*
t-butyl-, P 35, 1508*
di-*p*-anisyl-, J 36, 561*
dibenzyl-, P 35, 1508*
di-*s*-butyl-, P 37, 1879*
di-*t*-butyl-, CP 59, 1248*
dihexyl-, P 35, 1508*
diphenyl-, J 34, 912*; J 35, 261*; J 35, 600*; JA 82, 5955*; O 13, 449*; P 35, 1508*
diphenyl-3-d-, J 35, 262*
diphenyl-4-d-, J 35, 262*
di-*o*-tolyl-, J 35, 264*
ethylphenyl-, P 35, 1508*
phenyl-, P 35, 1508*
phenyl-1-naphthyl-, O 13, 450*
thiodiphenyl-, P 35, 1508*
2,2,4-trimethyldihydroquinolinyl-, O 13, 450*

Nitrite
(+ chromium + cyanide), P 38, 2580*; P 38, 2581*

Nitrogen, P 28, 352*; P 29, 451*; P 36, 1461; PC 64, 1875*; PC 66, 2606*
(+ argon), irradiated, PC 63, 1765*
(+ β-quinol), SD 11, 216
(+ xenon), irradiated, PC 63, 1765*
irradiated, PC 63, 1765*

Nitrogen-N^{14}, P 38, 118
irradiated, P 30, 603*

Nitrogen-N^{14},N^{15}, P 38, 118

Nitrogen-N^{15}, irradiated, P 30, 603*; PC 63, 1765*

Nitrogenase, NT 196, 434*
(+ pyruvate), NT 196, 434*

Nitrogen dioxide, C(1962), 2875*; IC 2, 1305*;
P 28, 739*; P 36, 1693*

Nitrogen trifluoride, JA 81, 1085

Nitrosamine, *N*,*N*-dimethyl-, CA 44, 517

Nitrosodisulfite, CH 14, 158*; ZP 210, 210*

Nitrosofluoroalkyl, O 8, 427*

Nitrosomonas europaea, NT 196, 435*
(+ dithionite), NT 196, 435*
(+ ethylenediaminetetraacetic acid), NT 196, 435*
(+ hydroxylamine), NT 196, 435*

Nonaborane, IC 1, 727

Nonactin, H 45, 621

Nonadecanoic acid, 9,11-diketo-, CN 37, 778

Nonane,
irradiated, P 28, 1174*, P 30, 697*
2,2,6,6,8,8-hexamethyl-4-methylene-,
AC 35, 1367

1-Nonanol
(+ boron trifluoride), IN 8, 473

1-Nonene,
2,4,4,6,6,8,8-heptamethyl-, AC 35, 1367
4,6,8-trimethyl-, V 298

2-Nonene,
2,4,4,6,6,8,8-heptamethyl-, AC 35, 1367

3-Nonene, 2,4,4,6,6,8,8-heptamethyl-, AC 35, 1367

4-Nonene, 2,2,4,6,6,8,8-heptamethyl-, AC 35, 1367

18-Nor-5,13-androstadien-3β-ol, 17,17′-dimethyl-,
AN 50, 1200; IT 92, 1120

18-Nor-13-androsten-3β-ol, 17,17′-dimethyl-,
AN 50, 1202; IT 92, 1120

Norbornadiene, C(1961), 2039
(+ iron pentacarbonyl), H 45, 1873
(+ molybdenum tetracarbonyl), C(1961), 2039

7-Norbornadienyl chloride, JA 84, 4877

7-Norbornadienyl fluoborate, JA 82, 6199;
JA 84, 4877; JA 85, 3631

Norbornane,
endo-2-iodo-*exo*-3-perfluoropropyl-, OR 27, 3028
5-nitro-, CN 40, 83
exo-2-perfluoropropyl-, OR 27, 3028

Norbornene, 5-nitro-, CN 40, 83

2-Norbornene,
5-*endo*-chloro-, JA 85, 2710
5-*endo*-cyano-, JA 85, 2710

Norcarane, 7-phenoxy-, BE 96, 2271

B-Norcoprostane 3α,6α-oxide, JA 82, 2006

18-Nor-1,3,5(10),12-estratetraene-3,17α-diol-
11-one,
1,17β-dimethyl-, 3,17-diacetate, BE 96, 2145
1,17β-dimethyl-12-acetyl-, 3,17-diacetate,
BE 96, 2146

A (2)-Norhexanorelatericin A, 16-desoxy-,
OR 27, 4548

Norketoagarofuran, TT 19, 1523

DL-Norleucine,
irradiated, PC 62, 792*
glycyl-, irradiated, PC 62, 785*

19-Norprogesterone, V 345

Norpseudotropine, *N*-ethyl-, methiodide, JA 81, 5459

19-Nortestosterone, JA 80, 5128

Norvaline
(+ nickel), FD 34, 91

DL-Norvaline,
DL-alanyl-, irradiated, PC 62, 785*
glycyl-, irradiated, PC 62, 785*

Nucleic acid, CP 59, 659*

Nupharidine, deoxy-, J 35, 1338

DL-Nupharidine, deoxy-, J 35, 1496

Nylon, FS 55, 1998; PS 50, 353*
irradiated, F[5]26, 1710*; FS 54, 1296*

Nylon 6, irradiated, P 36, 3043*; PS A1, 190*

Nylon 57, irradiated, PS A1, 190*

Nylon 66, CN 39, 1156
irradiated, PS A1, 190*

Nylon 610, irradiated, PS A1, 190*

O

Octacosane, irradiated, P 28, 1175*

10,12-Octadecadienoic acid methyl ester, CN 37, 777

Octadecane, P 39, 2172*; P 39, 2188*
irradiated, P 28, 1174*

Octadecenoic acid, fluoro-, BJ 77, 23

Octadecyl disulfide, irradiated, P 37, 2778*

α-Octadecyl glycerol ether diacetate, B 232, 686

β-Octadecyl glycerol ether diacetate, B 232, 686

3,4-Octadien-1-al, 2,2-dimethyl-, PC 67, 1361

$\Delta^{5,10}$-Octalone-6,
cis-1-acetoxy-9-hydroxy-, JA 85, 3789
1β-acetoxy-9β-methyl-, JA 85, 3790
1,9-*cis*-diacetoxy-, JA 85, 3789
1β-hydroxy-9β-methyl-, JA 85, 3790

Octane, CH 14, 149; V 216
irradiated, P 30, 697*
hexadecafluoro-, M 7, 337; M 7, 394

1-Octanol
(+ boron trifluoride), IN 8, 472

2-Octanol, HB 429

2-Octanol-d, HB 429

2,4,6-Octatrienoic acid, irradiated, P 37, 364*

all-trans-2,4,6-Octatrienoic acid, 2,7-dimethyl-,
methyl ester, C(1961), 1628

2-*trans*, 4-*cis*, 6-*trans*-Octatrienoic acid, 2,7-
dimethyl-, methyl ester, C(1961), 1628

1-Octene, CH 14, 149
irradiated, P 31, 349*

2-Octene, irradiated, P 31, 349*

Old Yellow Enzyme
(+ triphosphopyridine nucleotide), AK 19, 101*;
S 127, 1178*; SC 14, 767*

Oleic acid, CN 37, 776
methyl ester, CN 37, 777
12,13-dihydroxy-, CN 37, 778

1-Oleodistearin, C(1960), 439

2-Oleodistearin, C(1960), 439

Oligoformals, C(1962), 4313

L-Ornithine dihydrochloride, irradiated, PC 62, 797*

Orotic acid, JA 84, 1043

Orthoacetic acid trimethyl ester, J 33, 1610

Orthoboric acid, P 32, 960

Orthoformic acid
ethyl ester, J 32, 655
tributyl ester, J 33, 1610
triethyl ester, J 33, 1610
trimethyl ester, J 33, 1609

Orthophosphate, CH 13, 22

Orthopropionic acid triethyl ester, J 33, 1610

Orthovaleric acid trimethyl ester, J 33, 1610

Otobain, C (1962), 1783; OR 28, 1639
dehydro-, OR 28, 1639
dibromo-, OR 28, 1640
dinitro-, OR 28, 1640
hydroxy-, C(1963), 1446
tetradehydro-, C(1962), 1783

Ouabagenin, di-*O*-acetyl-monoanhydro-, H 46, 229

Ovalbumin, PS 38, 80

Ovatodiolide, F[5]30, 1193

8-Oxa-1-azabicyclo[5.3.0] decan-10-one, 7-hydroxy-,
TT 19, 1666

7-Oxa-1-azabicyclo[4.3.0]nonan-9-one,
6-hydroxy, TT 19, 1665
6-hydroxy-8-methyl-, TT 19, 1665

4-Oxa-1-azacyclopentane,
(+)-ψ-1,2,5,5-tetramethyl-, 3-phenyl-,
JA 81, 6059
(-)-1,2,5,5-tetramethyl-, 3-phenyl-, JA 81, 6059

4-Oxa-1-azacyclopentan-5-one,
(+)-ψ-1,2-dimethyl-3-phenyl-, JA 81, 6059
(-)-1,2-dimethyl-3-phenyl-, JA 81, 6059

4-Oxa-1-azaspiro(4,5)decane,

Nylon 66, CN 39, 1156
irradiated, PS A1, 190*

Nylon 610, irradiated, PS A1, 190*

O

Octacosane, irradiated, P 28, 1175*

10,12-Octadecadienoic acid methyl ester, CN 37, 777

Octadecane, P 39, 2172*; P 39, 2188*
irradiated, P 28, 1174*

Octadecenoic acid, fluoro-, BJ 77, 23

Octadecyl disulfide, irradiated, P 37, 2778*

α-Octadecyl glycerol ether diacetate, B 232, 686

β-Octadecyl glycerol ether diacetate, B 232, 686

3,4-Octadien-1-al, 2,2-dimethyl-, PC 67, 1361

$\Delta^{5,10}$-Octalone-6,
cis-1-acetoxy-9-hydroxy-, JA 85, 3789
1β-acetoxy-9β-methyl-, JA 85, 3790
1,9-*cis*-diacetoxy-, JA 85, 3789
1β-hydroxy-9β-methyl-, JA 85, 3790

Octane, CH 14, 149; V 216
irradiated, P 30, 697*
hexadecafluoro-, M 7, 337; M 7, 394

1-Octanol
(+ boron trifluoride), IN 8, 472

2-Octanol, HB 429

2-Octanol-d, HB 429

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all-trans-2,4,6-Octatrienoic acid, 2,7-dimethyl-,
methyl ester, C(1961), 1628

2-*trans*, 4-*cis*, 6-*trans*-Octatrienoic acid, 2,7-
dimethyl-, methyl ester, C(1961), 1628

1-Octene, CH 14, 149
irradiated, P 31, 349*

2-Octene, irradiated, P 31, 349*

Old Yellow Enzyme
(+ triphosphopyridine nucleotide), AK 19, 101*;
S 127, 1178*; SC 14, 767*

Oleic acid, CN 37, 776
methyl ester, CN 37, 777
12,13-dihydroxy-, CN 37, 778

1-Oleodistearin, C(1960), 439

2-Oleodistearin, C(1960), 439

Oligoformals, C(1962), 4313

L-Ornithine dihydrochloride, irradiated, PC 62, 797*

Orotic acid, JA 84, 1043

Orthoacetic acid trimethyl ester, J 33, 1610

Orthoboric acid, P 32, 960

Orthoformic acid
ethyl ester, J 32, 655
tributyl ester, J 33, 1610
triethyl ester, J 33, 1610
trimethyl ester, J 33, 1609

Orthophosphate, CH 13, 22

Orthopropionic acid triethyl ester, J 33, 1610

Orthovaleric acid trimethyl ester, J 33, 1610

Otobain, C (1962), 1783; OR 28, 1639
dehydro-, OR 28, 1639
dibromo-, OR 28, 1640
dinitro-, OR 28, 1640
hydroxy-, C(1963), 1446
tetradehydro-, C(1962), 1783

Ouabagenin, di-*O*-acetyl-monoanhydro-, H 46, 229

Ovalbumin, PS 38, 80

Ovatodiolide, F[5]30, 1193

8-Oxa-1-azabicyclo[5.3.0] decan-10-one, 7-hydroxy-,
TT 19, 1666

7-Oxa-1-azabicyclo[4.3.0]nonan-9-one,
6-hydroxy, TT 19, 1665
6-hydroxy-8-methyl-, TT 19, 1665

4-Oxa-1-azacyclopentane,
(+)-ψ-1,2,5,5-tetramethyl-, 3-phenyl-,
JA 81, 6059
(-)-1,2,5,5-tetramethyl-, 3-phenyl-, JA 81, 6059

4-Oxa-1-azacyclopentan-5-one,
(+)-ψ-1,2-dimethyl-3-phenyl-, JA 81, 6059
(-)-1,2-dimethyl-3-phenyl-, JA 81, 6059

4-Oxa-1-azaspiro(4,5)decane,

(+)-ψ-1,2-dimethyl-3-phenyl-, JA 81, 6059
(-)-1,2-dimethyl-3-phenyl-, JA 81, 6059

6-Oxabicyclo[2.2.1]heptane-2-carbonitrile, 2-(3-hydroxy-4-oxo-6-methyl-γ-pyran-2-yl)-methyl-3-oxo-4-hydroxy-1-methyl-, JA 81, 2431

Oxalate
(+ rhodium), P 34, 68

Oxalic acid
(+ potassium dichromate), IN 25, 940*
irradiated, P 30, 697*
dihydrate, C(1958), 889

N-Oxaminyl, *N*-phenyl-*N*-9-decalyl-, CC 25, 1216*

1-Oxaphenalene,
7-acetoxy-3,9-dimethyl-, H 46, 416
7-methoxy-3,9-dimethyl-, H 46, 416

9-Oxa-1-thioniabicylo[3.3.1]nonane,
5-acetoxy-, perchlorate, JA 84, 3709
5-hydroxy-, perchlorate, JA 84, 3709
5-methoxy-, perchlorate, JA 84, 3709

1,2-Oxazine,
N-benzoyl-*cis*-3-methyl-6-methoxycarbonyl-*cis*-4α,5α-dihydroxytetrahydro-, diacetate, JA 85, 66
3β-methyl-4β-hydroxy-6β-methoxycarbonyl-5α-chlorotetrahydro-,
hydrochloride, JA 85, 67
hydrochloride lactone, JA 85, 67

Oxazolidine,
3-(2-acetoxyethyl)-4-methyl-5-phenyl-, OR 25, 1930
3-(2-hydroxyethyl)-4-methyl-5-phenyl-, OR 25, 1930

2-Oxazolidinethione,
5,5-dimethyl-, SC 16, 593
4-ethyl-, SC 16, 593
(-)-5-methyl-5-ethyl-, SC 16, 593

Oxazoline,
2-benzylamino-4-hydroxy-, F[5]27, 2058
2-benzylamino-5-hydroxy-, F[5]27, 2058

2-Oxazoline, 2-methyl-, CN 41, 1039

Oxazolo[4,3-k]carbazole, 7a-methyl-4,5,6,7-tetrahydro-, H 45, 1996

Oxetane,
cis-2-heptafluoropropyl-3-trifluoromethyl-tetrafluoro-, JA 84, 1558
trans-2-heptafluoropropyl-3-trifluoromethyl-tetrafluoro-, JA 84, 1558
perfluoro-2-allyl-3-methyl-, JA 84, 1558

2H-Oxetane,
cis-2,3-bis(trifluoromethyl)-trifluoro-, JA 84, 1555
trans-2,3-bis(trifluoromethyl)-trifluoro-, JA 84, 1555

Oxindigo, OR 28, 563*; TT 19, 441*
(+ potassium), TT 19, 442*

Oxygen, P 31, 1197*; P 35, 1789*; P 39, 3160*; PC 64, 1876*; SD 23, 480*
(+ cobalt + cyanide), AU 16, 561*
(+ E. coli), NT 192, 35*
(+ methacrylic acid), PS 48, 41*
(+ perylene), FS 58, 1637*
(+ poly[ethylene, tetrafluoro-], irradiated), P 35, 1654*
(+ poly[vinyl chloride], irradiated), PC 65, 59*
(+ β-quinol), SD 18, 277*
(+ Teflon), irradiated, P 30, 401*

Ozone
(+ *t*-butanol potassium salt), JA 84, 3099*
(+ potassium *t*-perbutoxide), JA 84, 3099*

P

Palladium, FS 55, 1433*
(+ ethylenediamine), C(1959), 794
(+ mesityl oxide), IC 1, 897
(+ mesityl oxide + triphenylphosphine), IC 1, 897

2-Palmitin, 1,3-dibutyro-, C(1963), 134

3-Palmitin,
1-aceto-, C(1963), 136
1,2-dibutyro-, C(1963), 134

[9]Paracyclophane, JA 85, 1067
2-hydroxy-, JA 85, 1067
4-hydroxy-, JA 85, 1067
5-hydroxy-, JA 85, 1067
2-keto-, JA 85, 1067
4-keto-, JA 85, 1067
5-keto-, JA 85, 1067

[10]Paracyclophane, JA 85, 1067
5-hydroxy-, JA 85, 1067
5-keto-, JA 85, 1067

Paraformaldehyde
(+ acetamide, *N*-methyl-), OR 28, 2593

(+)-ψ-1,2-dimethyl-3-phenyl-, JA 81, 6059
(-)-1,2-dimethyl-3-phenyl-, JA 81, 6059

6-Oxabicyclo[2.2.1]heptane-2-carbonitrile, 2-(3-hydroxy-4-oxo-6-methyl-γ-pyran-2-yl)-methyl-3-oxo-4-hydroxy-1-methyl-, JA 81, 2431

Oxalate
(+ rhodium), P 34, 68

Oxalic acid
(+ potassium dichromate), IN 25, 940*
irradiated, P 30, 697*
dihydrate, C(1958), 889

N-Oxaminyl, *N*-phenyl-*N*-9-decalyl-, CC 25, 1216*

1-Oxaphenalene,
7-acetoxy-3,9-dimethyl-, H 46, 416
7-methoxy-3,9-dimethyl-, H 46, 416

9-Oxa-1-thioniabicylo[3.3.1]nonane,
5-acetoxy-, perchlorate, JA 84, 3709
5-hydroxy-, perchlorate, JA 84, 3709
5-methoxy-, perchlorate, JA 84, 3709

1,2-Oxazine,
N-benzoyl-*cis*-3-methyl-6-methoxycarbonyl-*cis*-4α,5α-dihydroxytetrahydro-, diacetate, JA 85, 66
3β-methyl-4β-hydroxy-6β-methoxycarbonyl-5α-chlorotetrahydro-,
hydrochloride, JA 85, 67
hydrochloride lactone, JA 85, 67

Oxazolidine,
3-(2-acetoxyethyl)-4-methyl-5-phenyl-, OR 25, 1930
3-(2-hydroxyethyl)-4-methyl-5-phenyl-, OR 25, 1930

2-Oxazolidinethione,
5,5-dimethyl-, SC 16, 593
4-ethyl-, SC 16, 593
(-)-5-methyl-5-ethyl-, SC 16, 593

Oxazoline,
2-benzylamino-4-hydroxy-, F[5]27, 2058
2-benzylamino-5-hydroxy-, F[5]27, 2058

2-Oxazoline, 2-methyl-, CN 41, 1039

Oxazolo[4,3-k]carbazole, 7a-methyl-4,5,6,7-tetrahydro-, H 45, 1996

Oxetane,
cis-2-heptafluoropropyl-3-trifluoromethyl-tetrafluoro-, JA 84, 1558
trans-2-heptafluoropropyl-3-trifluoromethyl-tetrafluoro-, JA 84, 1558
perfluoro-2-allyl-3-methyl-, JA 84, 1558

2H-Oxetane,
cis-2,3-bis(trifluoromethyl)-trifluoro-, JA 84, 1555
trans-2,3-bis(trifluoromethyl)-trifluoro-, JA 84, 1555

Oxindigo, OR 28, 563*; TT 19, 441*
(+ potassium), TT 19, 442*

Oxygen, P 31, 1197*; P 35, 1789*; P 39, 3160*; PC 64, 1876*; SD 23, 480*
(+ cobalt + cyanide), AU 16, 561*
(+ E. coli), NT 192, 35*
(+ methacrylic acid), PS 48, 41*
(+ perylene), FS 58, 1637*
(+ poly[ethylene, tetrafluoro-], irradiated), P 35, 1654*
(+ poly[vinyl chloride], irradiated), PC 65, 59*
(+ β-quinol), SD 18, 277*
(+ Teflon), irradiated, P 30, 401*

Ozone
(+ *t*-butanol potassium salt), JA 84, 3099*
(+ potassium *t*-perbutoxide), JA 84, 3099*

P

Palladium, FS 55, 1433*
(+ ethylenediamine), C(1959), 794
(+ mesityl oxide), IC 1, 897
(+ mesityl oxide + triphenylphosphine), IC 1, 897

2-Palmitin, 1,3-dibutyro-, C(1963), 134

3-Palmitin,
1-aceto-, C(1963), 136
1,2-dibutyro-, C(1963), 134

[9]Paracyclophane, JA 85, 1067
2-hydroxy-, JA 85, 1067
4-hydroxy-, JA 85, 1067
5-hydroxy-, JA 85, 1067
2-keto-, JA 85, 1067
4-keto-, JA 85, 1067
5-keto-, JA 85, 1067

[10]Paracyclophane, JA 85, 1067
5-hydroxy-, JA 85, 1067
5-keto-, JA 85, 1067

Paraformaldehyde
(+ acetamide, *N*-methyl-), OR 28, 2593

Paraldehyde, HB 651

Peat, NT 188, 1186*

L-Pelletierin, F[5]28, 1994

DL-Penicillamine, irradiated, P 37, 2190*

D-Penicillamine,
irradiated, NT 185, 308*
hydrochloride, P 38, 1930*
irradiated, P 37, 2192*

Pentaborane, IC 1, 108; SA 15, 338
ethyl-, SA 15, 338
methyldihydro-, CN 41, 1355
tetraethyl-, C(1960), 427
triethyl-, C(1960), 427

Pentaborane-1-d_1, IC 1, 108

Pentaborane-9, JA 80, 2671; P 30, 321; P 30, 334
(+ 2-butyne), JA 84, 2830
(+ 2-pentyne), JA 84, 2830
(+ propyne), JA 84, 2830
bromo-, JA 80, 2671
iodo-, JA 80, 2671

Pentaborane-11, P 30, 321

Pentacyclo[5.3.0.$0^{2,6}0^{3,9}0^{4,8}$]decane, OR 27, 2704

Pentadecane, 2,6,10,14-tetramethyl-, AC 34, 52

Pentadecyl, O 6, 360*

1,2-Pentadiene, HB 49; JA 85, 1303

1,3-Pentadiene
(+ benzenethiol), JA 84, 3898
2,3-dimethyl-, J 35, 572
3,4-dimethyl-, J 35, 573

cis-1,3-Pentadiene, HB 50

trans-1,3-Pentadiene, HB 51

1,4-Pentadiene, HB 52; JA 85, 1303

2,3-Pentadiene, HB 53; JA 85, 1303

2,4-Pentadienoic acid,
2-*cis*-4-*trans*-3-methyl-5-phenyl-, methyl ester, ZA 181, 451
all-*trans*-3-methyl-5-phenyl-, methyl ester, ZA 181, 451

Pentafluorosulfur pentafluorosulfate, IC 1, 218

Pentamethine,
1,5-bis(dimethylamino)-, bromide, ZP 224, 67
1,5-bis(dimethylamino)-, perchlorate, ZP 224, 67
N,N'-dipiperidyl-, perchlorate, ZP 224, 67
N,N'-dipyrrolidyl-, perchlorate, ZP 224, 67

Pentamethylene oxide, H 41, 37

Pentane, HB 1; HB 434
irradiated, P 30, 697*
2-bromo-, irradiated, FS 58, 1484*
3-bromo-, irradiated, FS 58, 1485*
1,5-dichloro-, HB 386
3,3-diethyl-, JA 85, 1305
2,2-dimethyl-, CH 14, 149; HB 289
3,3-dimethyl-, HB 290
2-methyl-, CA 44, 517
3-methyl-, CA 44, 517
4-methyl-*cis*-2,3-epoxy-, HB 646
4-methyl-*trans*-2,3-epoxy-, HB 647
2-methyl-3-ethyl-, HB 6
1,1,2,2,3,3,4,4,5-nonafluoro-, M 7, 394
1,2,4,5-tetrachloro-1,1,2,3,3,4,5,5-octafluoro-, PS A1, 835
2,2,4,4-tetramethyl-, HB 7; HB 437
1,1,2-trichloro-, F[5]30, 1883
1,1,1-trimethoxy-, V 218
2,2,4-trimethyl-, HB 5; HB 436
2,4,4-trimethyl-2-amino-, V 220
2,4,4-trimethyl-2-(4'-hydroxyphenyl)-, V 315

1,3-Pentanediol, 2,2,4-trimethyl-, V 217

1,5-Pentanediol, HB 531

2,4-Pentanediol, NN[13]8, 435; OR 28, 1546
2-methyl-, NN[13]8, 435

2,4-Pentanedione, SA 19, 1696
(+ phosphine), JA 83, 3280
3-cinnamoyl-, SC 14, 1336

1-Pentanethiol, 1,1,5-trihydroöctafluoro-, OR 26, 357

1-Pentanol, F[5]27, 1879
(+ boron trifluoride), IN 8, 471
1,1,5-trihydroöctafluoro-, OR 26, 357

3-Pentanol-3-d, JA 84, 39

3-Pentanol-3-d-3-C^{13}, JA 84, 39

2-Pentanone,
3-bromo-, AK 21, 510
1,3-dibromo-, AK 21, 510
1,1,3,3-tetrabromo-, AK 21, 510
1,1,3-tribromo-, AK 21, 510
1,3,3-tribromo-, AK 21, 510

3-Pentanone
oxime, PC 65, 493
2-bromo-, AK 21, 508
2,4-dibromo-, AK 21, 508; SC 16, 2060

2,2,4-tribromo-, AK 21, 508

4-Pentanone,
2-hydroxy-2-methyl-, G 75, 22
3-methyl-2,3-epoxy-, AC 31, 74; HB 175; SA 14, 28

Pentaphosphorus trinitride hexadecachloride, ZC 320, 65

17-Pentatriacontene, irradiated, RL A262, 210*

1-Pentene, PC 65, 1385
2-ethyl-, AC 35, 1372
2-methyl-, HB 38
3-methyl-, HB 39
4-methyl-, PC 65, 1385

2-Pentene,
irradiated, P 31, 349*
3-ethyl-, irradiated, P 31, 351*
5-(5-hydroxy-*o*-tolyl)-, JA 85, 3281
cis-3-methyl-, HB 40
trans-3-methyl-, HB 41
4-methyl-, JA 85, 1301
irradiated, P 31, 351*
cis-4-methyl-, HB 42
trans-4-methyl-, HB 43
2,4,4-trimethyl-, irradiated, P 31, 351*

4-Pentenoic acid, 2-keto-3,4-dimethyl-, phenylhydrazone, BE 95, 501

2-Penten-1-one, 1-phenyl-4-methyl-, dimer, OR 26, 246

3-Penten-2-one,
4-benzylamino-, JA 84, 2693
4-(1,1-diphenylmethylamino)-, JA 84, 2694

2-Penten-4-ynoic acid,
3,5-diphenyl-, methyl ester, OR 28, 3409
2,5-diphenyl-3-methyl-, methyl ester, OR 28, 3410
cis-3,5-diphenyl-2-methyl-, OR 28, 3410
trans-3,5-diphenyl-2-methyl-, OR 28, 3410
3,5-diphenyl-2-methyl-, methyl ester, OR 28, 3409

2-Penten-4-yn-1-ol, 3-methyl-, H 45, 559

D-*erythro*-Pentose-1-enol, 1,4-anhydro-3,5-di-*O*-benzoyl-2-deoxy-, OR 28, 436

1-Pentyne
(+ pentaborane-9), JA 84, 2830

2-Pentyne, CP 58, 496

1-Pentyn-3-ol, 4-methyl-, V 133

Pepsin, B 237, 1815; PS 38, 80

Pepsinogen, B 237, 1815

Perchlorate, P 30, 1356*
(+ aluminum + cobalt), P 32, 554
(+ cobalt + gallium), P 32, 554
(+ cobalt + magnesium), P 32, 555

Perchloric acid-t, CN 40, 419*

Perchloryl fluoride, CN 38, 1597; CN 41, 3067

Performic acid
(+ insulin), B 237, 1812
(+ ribonuclease), B 237, 1810

Perinaphthenyl, SA 18, 785*

Permanganate
(+ diphenylamine), IS 53A, 285*

Peroxidase
(+ hydrogen peroxide + ascorbic acid), B 235, 2446*
(+ hydrogen peroxide + dihydroxyfumaric acid), B 235, 2448*
(+ hydrogen peroxide + hydroquinone), B 235, 2445*

Peroxide, PS A1, 609*

Peroxylamine disulfonate, P 36, 1789*; P 38, 2917*; P 39, 1140*

Persulfate
(+ copper + pyridine), P 35, 764*
(+ silk), NT 196, 668*
(+ wool), NT 196, 668*
(+ zinc + pyridine), P 35, 764*

Perylene, C(1959), 949*; C(1961), 906*; FS 58, 1637*; JA 80, 4552*; P 36, 2444; P 39, 1149*; SA 19, 1806*; T 9, 933*; Z 35, 149*
(+ 1,2-benzoquinone, 3,4,5,6-tetrabromo-), P 36, 1205*
(+ 1,2-benzoquinone, 3,4,5,6-tetrachloro-), P 36, 1206*
(+ iodine), P 34, 138*
(+ oxygen), FS 58, 1637*

Petroleum, crude, P 28, 744*

Pheanthine, C(1961), 1899

Phenacetin, AC 35, 1683; V 267

Phenacetyl bromide, 4-phenyl-, V 303

Phenanthrasemiquinone, C(1961), 4276*; P 28, 775*
2-chloro-, C(1961), 4276*
3-chloro-, C(1961), 4276*
4-nitro-, C(1961), 4276*

Phenanthrene, CH 17, 180; HB 109; JA 80, 4553*; JA 83, 1840; P 36, 2444; P 36, 2989*
1,8,9,10-tetraacetoxy-2-methyl-3-isocaproyl-, F[5]30, 1919
(+)-Δ^8-1β-vinyl-2-methylene-4bβ-methyl-7-keto-4aα,10aβ-dodecahydro-, H 42, 2131

o-Phenanthrenesemiquinone, P 39, 1797*

1,10-Phenanthroline, P 31, 861
(+ cobalt), FD 34, 89
2,9-dimethyl-, P 31, 861
4,7-dimethyl-, P 31, 861
5-methyl-, P 31, 861

4,5-Phenanthrylene ketyl, P 39, 1796*

Phenazinesemiquinone, P 36, 2237*

p-Phenetidine, V 208

Phenetole,
4-bromo-, V 198
β-chloro-, V 199

Phenol, HB 244; JA 83, 1847; P 37, 2620
(+ ethylene oxide), AC 35, 1283
4-benzyloxy-2,6-di-*t*-butyl-, N 645, 37*
O-bornyl-, JA 85, 3215
2-*t*-butyl-4,6-dimethyl-, FS 56, 470*
2-*t*-butyl-4-methyl-6-ethyl-, FS 56, 470*
2-chloro-, CA 44, 520
(+ isobutyl vinyl ether), CA 44, 520
1-chloro-2,4-dinitro-, IS 54A, 333
2,4-di-*t*-butyl-5,6-dimethyl-, FS 56, 469*
2,6-di-*t*-butyl-4-(*N*,*N*-dimethylaminomethyl)-, FS 56, 468*
2,6-di-*t*-butyl-4-ethyl-, FS 56, 468*
2,6-di-*t*-butyl-4-methyl-, FS 56, 468*; P 28, 774*
2,6-diisopropyl-, JA 85, 3066
2,4-dimethyl-, HB 248; J 34, 746
2,5-dimethyl-, J 34, 746
2,6-dimethyl-, CN 38, 2228; HB 249; J 34, 746; JA 83, 1847; SC 14, 1205
3,4-dimethyl-, HB 250; J 34, 746
3,5-dimethyl-, HB 251; J 34, 746; JA 83, 1847
2,5-dinitro-, FS 55, 709
2,6-dinitro-, IS 54A, 334
3,4-dinitro-, FS 55, 709
O-isobornyl-, JA 85, 3215
2-methyl-, HB 245; HB 560
3-methyl-, HB 246; HB 561
4-methyl-, HB 247; HB 563
2-methyl-6-*t*-butyl-, JA 85, 3067
4-methyl-2-*t*-butyl-, V 288
5-methyl-3-ethyl-, FS 55, 717
2-nitro-, J 36, 1540
3-nitro-, J 36, 1540
4-nitro-, J 36, 1539*
pentachloro-, HB 392
2,4,6-tribromo-, CN 40, 1760

Phenosafranin
(+ chloranil), PC 67, 2637*
irradiated, C(1962), 2056*

Phenothiazine, PC 66, 938*; SC 15, 1547*
10-ethyl-, SC 15, 1552*
5-keto-, SC 15, 1547*
10-methyl-, SC 15, 1551*

Phenoxazine, PC 66, 938*

1-Phenoxyl,
4-acetoxy-2,6-di-*t*-butyl-, BE 91, 2688*
4-benzoyl-2,6-di-*t*-butyl-, BE 91, 2689*; N 645, 73*
4-benzoyloxy-2,6-di-*t*-butyl-, BE 91, 2688*
4-*t*-butylmercapto-2,6-di-*t*-butyl-, N 645, 84*
2-*t*-butyloxy-4,6-di-*t*-butyl-, BE 91, 2686*
4-*t*-butyloxy-2,6-di-*t*-butyl-, BE 91, 2685*
4-cyano-2,6-di-*t*-butyl-, BE 91, 2690*; ZA 181, 460*
4-cyclohexyl-2,6-di-*t*-butyl-, BE 93, 2654*
2,6-di-*t*-butyl-4-cyclohexyl-, NT 198, 987*
4-diphenylmethyl-2,6-di-*t*-butyl-, N 645, 68* ZA 181, 460*
4-ethoxy-2,6-di-*t*-butyl-, BE 91, 2686*
4-formyl-2,6-di-*t*-butyl-, BE 91, 2689*
4-isopropyl-2,6-di-*t*-butyl-, N 645, 68*
4-isopropyloxy-2,6-di-*t*-butyl-, BE 91, 2686*
4-methoxy-2,6-di-*t*-butyl-, BE 91, 2686*; ZA 181, 461*
4-methylmercapto-2,6-di-*t*-butyl-, N 645, 82*
4-methylsulfonyl-2,6-di-*t*-butyl-, N 645, 85*
4-methylsulfoxido-2,6-di-*t*-butyl-, N 645, 85*
4-phenyl-2,6-di-*t*-butyl-, BE 92, 476*; ZA 181, 461*
4-(1-phenylethyl)-2,6-di-*t*-butyl-, N 645, 68*
4-phenylmercapto-2,6-di-*t*-butyl-, N 645, 84*
4-phenylmethyl-2,6-di-*t*-butyl-, N 645, 68*
4-phenylsulfonyl-2,6-di-*t*-butyl-, N 645, 85*
4-phenylsulfoxido-2,6-di-*t*-butyl-, N 645, 85*
2,4,6-tri-*t*-butyl-, BE 91, 2685*; FS 59, 820*; N 645, 94*; ZA 181, 458*
(+ hydroxylamine, *N*,*N*-diphenyl-), N 645, 8*
4-(trimethylacetoxy)-2,6-di-*t*-butyl-, BE 91, 2688*

1-Phenoxyl-3-d, 2,4,6-tri-*t*-butyl-, N 645, 94*

1-Phenoxyl-5-d_1, 2,4,6-tri-*t*-butyl-, ZA 181, 459*

Phenyl bis(3,3-dimethyl-2-butyl)phosphate, JA 84, 3471

Phenyl *t*-butyl nitroxide, F[5]30, 1980*

m-Phenylenediamine, HB 397

o-Phenylenediamine, HB 394

p-Phenylenediamine, AC 34, 917*; AC 34, 1589*; HB 400; P 34, 473*

(+ bromanil), JA 83, 4507*
(+ chloranil), JA 83, 4506*; NT 185, 917*
(+ *p*-chloranil), P 38, 1903*
(+ iodanil), JA 83, 4507*
4-phenylcyclohexyl-, O 13, 451*
N,N,N',N'-tetramethyl-, CH 14, 161*
(+ bromanil), J 33, 1624*
(+ chloranil), JA 83, 4507*; JA 84, 1340*; JA 84, 3804*
(+ *o*-quinone, tetrabromo-), P 30, 766*

p-Phenylenediamine-*N,N,N',N'*-d_4, P 34, 473

p-Phenylenediamine-2,3,5,6-d_4, P 34, 474*

Phenyl (1-oxyl-2,6-di-*t*-butyl-4-phenyl) selenide, N 657, 7*

Phenyl trifluoromethyl sulfide, 2-fluoro-, O 10, 69

Phenyl trifluoromethyl sulfone, 4-fluoro-, O 10, 69

Phenyl vinyl ketone, P 31, 1284

Phillyrigenin diacetate, OR 27, 4517

α-Phosdrin, OR 26, 3963; OR 26, 4621

β-Phosdrin, OR 26, 3963; OR 26, 4621

Phosgene
(+ formamide, *N,N*-dimethyl-), F[5]30, 1640
(+ formamide, *N,N*-dimethyl- + ethyl vinyl ether), F[5]30, 1643

Phosphate, CH 13, 22

Phosphine
(+ 2,4-pentanedione), JA 83, 3280
bis (diethylamino) phenyl-
(+ methyl iodide), C(1962), 3985
chlorodimethoxy-, oxide, CP 59, 763
dichlorodimethylamino-, oxide, CA 44, 515
dichlorodimethylamino-, sulfide, CA 44, 515
dichloromethoxy-, oxide, CP 59, 763
dimethoxy-, oxide, CP 59, 763
dimethoxy (2,2-dichloroethenoxy)-, oxide, CP 59, 763
dimethoxy-*N,N*-dimethylamino-, oxide, CP 59, 763
dimethoxymethylthio-, oxide, CP 59, 763
dimethoxy-2,4,5-trichlorophenoxy-, sulfide, CP 59, 763
dimethyl-
(+ iron dicarbonyl, cyclopentadienyl-), JA 85, 3123
2,2-dimethylhydrazinodiphenyl-, IC 2, 755
diphenyl-(4-keto-3,5-di-*t*-butyl-2,5-cyclohexadienyl)-, sulfide, N 658, 107*
methyl-, JA 85, 2665
methylbis (dimethylamino)-
(+ borane, triethyl-), IC 2, 1149
methyldichloro-, CA 44, 513; CP 59, 683; H 46, 2033
oxide, CA 44, 513; CA 44, 521; CP 59, 683
selenide, CA 44, 513; CP 59, 683
sulfide, CA 44, 513; CP 59, 683
methyldimethoxy-,
oxide, CP 59, 763
sulfide, CP 59, 763
methylmethoxychloro-, oxide, CP 59, 763
methylmethoxyhydroxy-, oxide, CP 59, 763
methyltriphenyl-, tetracyanoquinodimethane salt, P 35, 1008*
triethyl-, P 34, 1050
(+ platinum + hydrogen chloride), C(1962), 5078
trimethoxy-, CP 59, 763
oxide, CP 59, 763
sulfide, CP 59, 763
trimethyl-
(+ trimethylamine + triethylborane), IC 2, 1149
triphenyl-
(+ palladium + mesityl oxide), IC 1, 897
tris (dimethylamino)-, F[5]30, 2155
(+ chromium hexacarbonyl), IC 2, 941
(+ iron pentacarbonyl), IC 2, 941
(+ molybdenum hexacarbonyl), IC 2, 941
(+ molybdenum tricarbonyl, cyclopentadienyl-iodo-), IC 2, 944
(+ nickel tetracarbonyl), IC 2, 941
(+ tungsten hexacarbonyl), IC 2, 941
oxide, CA 44, 515
sulfide, F[5]30, 2155
trivinyl-, P 39, 1523

Phosphine-d_2, FS 57, 891

Phosphinic acid, C(1962), 3838
dimethyl-, C(1962), 3838
methyl-, C(1962), 3838
1,1,2,3,3-pentamethyltrimethylene-, OR 27, 1834
1-phenylethylphenyl-, JA 84, 2504
methyl ester, JA 84, 2504
2-propylphenyl-, isopropyl ester, JA 84, 3472

Phosphinyl chloride, isopropylphenyl-, JA 84, 2503

Phosphite, CH 13, 22; P 36, 1789*

Phosphobetaine, C(1963), 5124*

Phosphonate, dimethyl-, JA 83, 4519

Phosphonic acid,
chloromethyl-, octyl ester, PC 67, 2641
methyl-, C(1962), 3838
phenyl-, diisopropyl ester, JA 84, 3470
2-phenylethyl-, diisopropyl ester, JA 84, 3473
phthalidyl-,
diethyl ester, JA 84, 3472
diisopropyl ester, JA 84, 3472

Phosphonitrilic chloride tetramer
(+ aniline), JA 82, 5617

Phosphonium,
diphenyl-(3,5-di-*t*-butyl-4-phenolate)-, N 658, 106*
trimethyl-, JA 83, 787

Phosphonium fluoroborate, diphenylethyl-(4-keto-3,5-di-*t*-butyl-2,5-cyclohexadienyl)-, N 658, 109*

Phosphonothioic acid, methyl-, *O*, *O'*-diethyl ester, JA 82, 2642

Phosphonous acid, CA 45, 170
monosodium salt, CA 45, 170
bis(dimethylamino)-, *t*-butyl ester, F[5]30, 2155
phenyl-, diisopropyl ester, JA 84, 3473

Phosphonyl dichloride, isopropyl-, JA 84, 2503

Phosphoramide, hexamethyl-, HB 280; V 145

Phosphoric acid, AC 31, 1896
bis(2-ethylhexyl)-, PC 67, 2641
bis(*m*-tolyl)-, PC 67, 2641
fluoro-, JA 81, 6352
hexafluoro-, CA 45, 170

Phosphoronitrile chloride, BE 92, 1190

Phosphorus, S 135, 902*

Phosphorus nitride chloride, ZC 315, 182
(+ phosphorus pentachloride), ZC 315, 193

Phosphorus pentachloride, NT 188, 1097
(+ ammonia), G 74, 384
(+ phosphorous nitride chloride), ZC 315, 193

Phosphorus pentafluoride
(+ acetyl fluoride), JA 84, 2736
(+ benzoyl fluoride), JA 84, 2736
(+ propionyl fluoride), JA 84, 2736

Phosphorus tribromide
(+ phosphorus trichloride), JA 81, 6364

Phosphorus trichloride
(+ phosphorus tribromide), JA 81, 6364
(+ triethyl phosphite), ZC 307, 115

Phosphorus trifluoride
(+ carbon tetrafluoride), P 33, 636

Phosphorus tri-*N*-methylimide, IC 2, 378

Phosphoryl chloride
(+ formamide, *N*,*N*-dimethyl-), F[5]30, 1640
(+ formamide, *N*,*N*-dimethyl- + ethyl vinyl ether), F[5]30, 1643

Phosphoryl dichloride, trichlorophosphoronitrido-, BE 94, 1384; BE 94, 1389

Phosphoryl trichloride, ZC 311, 295

Photosantonin, JA 81, 1668

Photo-γ-tropolone methyl ether, JA 82, 3644

Phthalaldehyde, P 38, 2002*

Phthalaldehyde-4-d, P 38, 2003*

Phthalazine, P 39, 1637*

Phthalazine-1-d, P 39, 1638*

Phthalazine-6-d, P 39, 1638*

Phthalic acid
ammonium hydrogen salt, SA 16, 855
dibenzyl ester, HB 230
dibutyl ester, HB 228
dimethyl ester, HB 607; P 38, 485
diphenyl ester, HB 367
monomethyl ester, HB 502
potassium hydrogen salt, P 31, 853
4-methyl-, HB 211
tetrachloro-, dimethyl ester, HB 610

Phthalic anhydride, HB 509
3,6-dimethyl-, F[5]29, 1256
3-nitro-, P 28, 776*
tetrabromo-
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*
tetrachloro-
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*

Phthalide, HB 612
α-hydroxy-, HB 617

Phthalimide, *N*-bromoethyl-, V 246

Phthalocyanine
(+ *o*-chloranil), P 32, 1022*
(+ copper), JA 83, 1866*; NT 191, 65*; P 35, 157*
(+ silver), JA 85, 2375*
(+ tin), P 35, 163*
(+ zinc), P 35, 163*

Phthalonitrile, J 36, 360*

Phyllalbine, F[5]30, 2788

Phyllochrysine, F[5]30, 903

Phylloerythrin, JA 83, 3746

Phytol, V 346

1-Picoline, IS 54A, 309
(+ copper), P 35, 763*
(+ silver), P 35, 1700*

2-Picoline, IS 54A, 317

3-Picoline, IS 54A, 319
2-amino-, P 37, 2476

4-Picoline, C (1963), 447; P 39, 1212
(+ cobalt + acetylacetone), P 39, 1212

Picropodophyllon, H 46, 88

DL-Picrosikkimotoxon, H 46, 88

Piloquinone, F[5]30, 1918

Pimaric acid methyl ester, JA 83, 999

Pimelic acid, HB 120

Pinacolone semicarbazone, OR 24, 95

α-Pinene, V 272; ZA 164, 133

β-Pinene, V 274; ZA 164, 133

Pipecolic acid,
4-hydroxy-, SC 16, 2457
5-hydroxy-, SC 16, 2458

Piperazine,
1-benzyl-4-benzenesulfonyl-, V 330
diketo-, irradiated, CN 41, 10*
N,N'-dimethyl-, P 34, 1712
N-methyl-, V 119

3,6-Piperazinedione, 2-isobutyl-5-methyl-, F[5]30, 1050

Piperidine, BE 95, 2897
N-acetyl-2-methyl-, JA 85, 3730
N-formyl-2-methyl-, JA 85, 3730
perfluoro-, FD 34, 179

Piperidine-d_6, BE 95, 2897

Piperidine-4-carboxylic acid, 1-methyl-4-(2-pyridyl)-, methyl ester, V 301

3-Piperidinol, 6-methyl-, JA 85, 65

Piperidinoxyl, 2,2,6,6-tetramethyl-4-ethyl-4-hydroxy-, NT 200, 256*

Piperine, V 328

Piperitone, V 275

Piperonal, V 187

Piperylene
(+ benzenethiol), JA 84, 3898

Pisatin, JA 84, 1923
anhydro-, JA 84, 1923

Pivalyl fluoride, JA 85, 1330
(+ antimony pentafluoride), JA 85, 1330

Plasma, NT 187, 584

Plasma amine oxidase, NT 198, 1092*
(+ benzylamine), NT 198, 1092*
(+ dithionite), NT 198, 1092*

Platinum, FS 55, 1432*; PY 33, 375*
(+ *cis*-2-butene + chloride), C (1960), 2521
(+ ethylene + chloride), C (1960), 2521; C (1963), 4911
(+ mesityl oxide), IC 1, 898
(+ phosphine, triethyl- + hydrogen chloride), C (1962), 5078
(+ pyridine + nitrate), CN 39, 326

Platinum carbonyl, cyclopentadienyl-, iodide, BE 96, 2008

Platinum (I) chloride
(+ ethylene), CN 38, 738

Pleiadene, 7,12-dihydro-7-phenyl-, JA 81, 4326

Pleiadene-12,12-d_2, 7,12-dihydro-7-phenyl-, JA 81, 4326

Plumbane, trimethyl-, C (1962), 1146

Plumericin, H 44, 1460
α-dihydro-, H 44, 1460
β-dihydro-, H 44, 1460

Podophyllotoxin,
4-desmethyl-7'-deshydroxy-,
acetate, F[5]29, 1724
methyl ether, F[5]29, 1724

Poly (acetaldehyde), irradiated, CP 58, 789*

Poly (acetic acid vinyl ester), P 39, 1201; PS 50, 350*; PS 50, 354*
irradiated, FS 54, 1294*

Poly (acetylene), PS 51, S27*

Poly (acetylene, phenyl-), PS 55, 583*; PS 55, 625*

Poly (acrylamide), PS 56, 253*; PS A1, 851
irradiated, PS 61, 336*

Poly (acrylic acid), irradiated, FS 54, 1293*; PS A1, 3381*

Poly (acrylic acid *t*-butyl ester), P 38, 68

Poly (acrylic acid methyl ester), PS 42, 4

Poly (acrylic acid, α-chloro-, methyl ester), irradiated, FS 54, 1293*

Poly (acrylic anhydride), PS 57, 767*

Poly (acrylonitrile), FS 54, 410*; PS 34, 184*; PS 50, 355*
irradiated, FS 54, 1295*

Poly (L-alanine), PC 66, 1293

Poly (alloöcimene), PS 61, 323

Poly (*cis*-1,3-butadiene), PS 57, 519

Poly (*trans*-1,3-butadiene), PS 57, 519

Poly (1,3-butadiene, 1,4-dimethyl-), F[5]30, 976

Poly (1,3-butadiene-1,1-d_2, 2-methyl-d_3-), CN 41, 945

Poly (1-butene), PC 65, 1387

Poly (1-butene, 3-methyl-), PC 65, 1385; PS A1, 2301

Poly (carbazole, *N*-vinyl-), PS A1, 134

Poly (chloroquinone, phenyleneamino-), PS 55, 635*

Poly (cyclohexane-1,4-dicarboxylic acid ethyl ester), PS 45, 241

Poly (cyclohexene oxide), PS A1, 2788

Poly (decamethylene terephthalate), FS 56, 651

Polyester resin, J 33, 1704

Poly (ethylene), AC 35, 1949; PS 27, 68; PS 39, 557; PS 46, 188; PS A1, 1176; PY 31, 1866; PY 34, 102; SD 18, 316*
irradiated, FS 54, 1293*; J 35, 254*; P 28, 1174*; P 33, 397*; P 33, 406*; P 36, 576*; P 37, 1284*; P 39, 2648*; PS 44, 343*; PS 47, 503*; PS A1, 608*; RL A262, 210*

Poly (ethylene, chlorotrifluoro-), irradiated, NB 65A, 380*

Poly (ethylene, tetrafluoro-), PS 61, 404
irradiated, FS 54, 1298*; NB 65A, 380*; P 32, 954*; P 35, 1653*; P 37, 480*; P 38, 2449*; PS 60, S6*; PS A1, 3538*
(+ hydrogen), P 35, 1653*
(+ nitric oxide), P 35, 1654*
(+ oxygen), P 35, 1654*

Poly (ethylene, trifluoro-), irradiated, NB 65A, 380*

Poly (ethylene, trifluorochloro-), PS A1, 835

Poly (ethylene-d), irradiated, RL A262, 210*

Poly (ethylene glycol terphthalate), PS 50, 352*

Poly (ethylene terephthalate), FS 56, 650; PS 41, 260; PY 34, 60

Poly (ethylene terephthalate-d_3), FS 56, 650

Poly (ethylene terephthalate-d_4), FS 56, 650

Poly (ethylene-d_2 terephthalate), FS 56, 650

Poly (ethyl metaphosphate), NT 200, 1005

Poly (formaldehyde), irradiated, CP 58, 531*; CP 59, 792*

Poly (furfuryl alcohol), RL A262, 331*

Poly(galactic acid, tetraacetyl-, methyl ester), F[5]30, 1254

Poly (L-glutamate, γ-benzyl-), PS 38, 78

Poly (hexamethylene terephthalate), FS 56, 651

Poly (1-hexene, 5-methyl-), PS A1, 2301

Poly (hydrazyl, vinyl-1,1-diphenyl-2-[2,2-dinitrophenyl]-), PS 58, 672*

Poly (isobutylene), PS A1, 2227; PS A1, 2255*; PS A1, 2301

Poly (isoprene), F[5]30, 976; JA 84, 4981

Poly (*cis*-1,4-isoprene), AC 34, 1794

Poly (*trans*-1,4-isoprene), AC 34, 1794

Poly (itaconic acid dimethyl ester), irradiated, PS 39, 24*

Poly (L-leucine), PC 66, 1293

Poly (methacrylamide), PS 56, 253*
irradiated, PS 61, 337*

Poly (methacrylic acid), PS 55, 184
(+ ethylene, tetracyano-), irradiated, NT 195, 262*
(+ pyromellitic anhydride), irradiated, NT 195, 262*
irradiated, NT 184, 182*; NT 195, 262*; PS 41, 201*

Poly (methacrylic acid butyl ester)
(+ nitric oxide), NT 198, 579*
irradiated, PS 41, 209*

Poly (methacrylic acid chloromethyl ester), PS A1, 2719

Poly (methacrylic acid ethyl ester), PS 42, 4; PS 44, 298*
(+ nitric oxide), NT 198, 579*
irradiated, FS 54, 1134*; PS 41, 208*

Poly (methacrylic acid methyl ester), FS 54, 410*; PS 38, 455*; PS 42, 4; PS 44, 174; PS 44, 297*; PS 45, 233; PS 48, 253; PS 49, 227*; PS 50, 355*; PS 55, 184; PS 60, S12; PS 62, 200; PS A1, 2272; PS A1, 2719
(+ benzoyl peroxide), PS 44, 298*
(+ nitric oxide), NT 198, 579*
irradiated, AU 16, 1141*; C (1963), 1187*; F[5]26, 1710*; FS 54, 1134*; NT 184, 182*; PS 34, 203*; PS 44, 299*; PS 47, 503*; RL A269, 115*

Poly (methacrylic acid sodium salt), PS 55, 184

Poly (methacrylonitrile), FS 54, 410*

Poly (methane, diphenyl-), O 12, 15*

Poly (1-pentene), PC 65, 1385

Poly (1-pentene, 4-methyl-), PC 65, 1385; PS A1, 2301

Poly (phosphoric acid), AC 31, 1896

Poly (phosphoronitrilic acid methyl ester), BE 92, 1191

Poly (phosphoryl chloride), JA 82, 5307

Poly (piperylene), F[5]30, 976

Poly (propylene), PC 65, 1385; PS 39, 558; PS 50, 352*; PS 62, S102; PS A1, 2252*; PY 29, 1389
irradiated, PC 66, 850*; PS 47, 503*; PS 56, 35*; PS A1, 626*; PS A1, 2110*

Poly (propylene-d), PS A1, 2256*

Poly (propylene-3,3′,3″-d_3), PC 65, 1385

Poly (pyridine, methylvinyl-), PS 50, 352*

Poly (pyrrole), AU 16, 1096*

Poly (pyrrolidone), PS A1, 2282

Poly (siloxane, dimethyl-), PS A1, 2733

Poly (siloxane, methylphenyl-), J 33, 71

Poly (stannane, dimethyl-), IC 2, 737

Poly (stilbene), O 12, 17*

Poly (styrene), NT 185, 236; P 38, 1027; PC 66, 2068; PS 38, 77; PS 50, 355*; PS 62, 200; SA 14, 36
irradiated, FS 54, 1293*; FS 56, 1305*; P 35, 370*; P 37, 2404*; PS A1, 1524*

Poly (styrene, 2-chloro-), PS 38, 84

Poly (styrene, 3-chloro-), PS 38, 84

Poly (styrene, 4-chloro-), PS 38, 84

Poly (styrene, 2,5-dichloro-), irradiated, FS 56, 1306*

Poly (styrene, α-methyl-), PS 38, 88; PS 55, 184
irradiated, FS 56, 1306*

Poly (styrene, 2-methyl-), PS 38, 88

Poly (styrene, 3-methyl-), irradiated, FS 56, 1306*

Poly (styrene, 2,3,4,5,6-pentafluoro-), irradiated, FS 56, 1309*; NB 65A, 380*

Poly (styrene, α,β,β-trifluoro-), irradiated, FS 56, 1306*; NB 65A, 380*

Poly (styrene-α-d_1), P 38, 1027

Poly (styrene-β-d_1), irradiated, PS A1, 1524*

Poly (styrene-β,β-d_2), PC 66, 2068; PS 38, 84
irradiated, FS 56, 1305*

Poly (styrene-α,β,β-d_3), PS 38, 84
irradiated, FS 56, 1305*; PS A1, 1523*

Poly (sulfuryl fluoride), CN 40, 681

Poly (tetramethylene terephthalate), FS 56, 651

Poly (thioacetyl fluoride, difluoro-), JA 85, 753

Poly (urea), irradiated, PS A1, 192*

Poly (vinyl alcohol), J 35, 1749; PS 44, 95
irradiated, FS 54, 1294*; PS 44, 103; PS 47, 503*; PS 51, S17

Poly (vinyl chloride), P 39, 1200; PS 50, 354*; PS 61, S13; PS 62, S149
(+ sulfur dioxide), irradiated, PS 50, 354*
irradiated, FS 54, 1295*; P 32, 371*; PC 65, 817*; PS 47, 503*; PS A1, 632*
(+ oxygen), PC 65, 59*
(+ sulfur dioxide), PS 50, 354*

Poly (vinyl-α-d chloride), P 39, 1200

Poly (vinyl chloride) coke, O 7, 487*

Poly (vinyl fluoride), P 39, 1201

Poly (vinylidene chloride), PS 61, S13

Poly (vinylidene fluoride), PS 44, 5; PS A1, 1306

Poly (vinyl methyl ether), P 39, 1200

Pontamine Pure Yellow
(+ chloranil), PC 67, 2637*

Porphin, *meso*-monomethyloctamethyl-, C (1963), 858

Porphyrin
(+ silver), JA 83, 1608*
(+ vanadium), CC 27, 1439*

Potassium, PC 67, 2867*
(+ 2,2 -bipyridine), PC 67, 2867*
(+ cycloöctatetraene), JA 82, 3785
(+ oxindigo), TT 19, 442
(+ pyridine), JA 83, 3624*
(+ pyridine-3-d_1), JA 83, 3624*
(+ pyridine-2,6-d_2), JA 83, 3624*

Potassium azide, irradiated, P 33, 623*; SD 23, 159*

Potassium bromide, SD 9, 75*

Potassium chloride, P 36, 1344*; SD 9, 71*
irradiated, SD 9, 85*

Potassium chloride-potassium iodide, P 37, 671*

Potassium chloride-silver, RL A271, 244*

Potassium cyanate, M 3, 31

Potassium dichromate
(+ acetic acid, trifluoro-), IN 25, 940*
(+ citric acid), IN 25, 942*
(+ oxalic acid), IN 25, 940*

Potassium dideuterium phosphate, irradiated, P 39, 1359*

Potassium dihydrogen arsenate, P 37, 470; SA 16, 855

Potassium dihydrogen phosphate, P 37, 469

Potassium ferrocyanide trihydrate, P 35, 1771

Potassium hexafluorophosphate, P 39, 1993

Potassium hydroborate-d, JA 84, 2041

Potassium hydrogen maleate, SA 16, 855

Potassium iodide, PY 30, 1427; SD 11, 165
irradiated, P 31, 934*

Potassium iodide-rubidium iodide, P 38, 2303

Potassium nitrate, irradiated, P 37, 3017*

Potassium nitrate-K^{14}, irradiated, PC 66, 780*

Potassium oxalate monohydrate, P 38, 63

Potassium ozonide, JA 84, 3099*

Potassium pentaborate, P 30, 1029

Potassium perborate, C (1958), 290

Potassium *t*-perbutoxide
(+ ozone), JA 84, 3099*

Potassium perchromate, P 37, 2002*
(+ potassium perniobate), P 37, 2002*

Potassium perniobate
(+ potassium perchromate), P 37, 2002*

Potassium pyrenide, P 33, 1591

Potassium thiosulfate pentahydrate, irradiated, CN 41, 2107*

Potassium toluenide, JA 84, 1492*

Potassium toluenide-4-d_1, JA 84, 1492*

Potassium trisoxalatorhodium (III) hydrate, P 34, 68

Praseodymium ethyl sulfate, RL A245, 162*

Prednisolone, 15-dehydro-16-fluoromethyl-, acetate, BE 95, 2115

Prednisone 20-ethylene dioxide 21-acetate, OR 28, 764

4,6-Pregnadiene-3,20-dione,
17α-acetoxy-, BE 94, 1232
2α-chloro-17α-acetoxy-, BE 94, 1232
4-chloro-17α-acetoxy-, BE 94, 1232
6-chloro-17α-acetoxy-, BE 94, 1232

4,6-Pregnadien-17α-ol-3,20-dione,
21-acetoxy-, BE 94, 1232
6-bromo-21-acetoxy-, BE 94, 1232
6-bromo-11α,21-diacetoxy-, BE 94, 1232
6-chloro-11α,21-diacetoxy-, BE 94, 1232

5,15-Pregnadien-17α-ol-3,20-dione, 16-methyl-21-acetoxy-, BE 95, 2114

2,5-Pregnadien-17α-ol-20-one acetate, OR 28, 1979

5(6),16-Pregnadien-3β-ol-20-one, JA 80, 5127

4,6-Pregnadien-17α-ol-3,11,20-trione,
4-chloro-21-acetoxy-, BE 94, 1232
6-fluoro-21-acetoxy-, BE 94, 1232

5α-Pregnane,
3β-acetoxy-18,20-diketo-, H 43, 358
3β-acetoxy-20-keto-, H 42, 2126
3,20-di-(ethylenedioxy)-11-keto-, H 44, 2164
3,20-di-(ethylenedioxy)-11-keto-19-hydroxy-, H 44, 2165
1β,11α-oxido-3,20-diethylenedioxy-, H 44, 197

5β-Pregnane, 1α,11α-oxido-3-ethylenedioxy-20-keto-, H 44, 195

5α-Pregnane-11,20-dione, 3β-acetoxy-, C (1960), 5120

3,20-Pregnanedione, JA 80, 5130

3,11,20-Pregnanetrione, JA 80, 5124

5α-Pregnan-20-one, 3β-acetoxy-, semicarbazone, H 45, 954

5β-Pregnan-11-one, 3α,20β-diacetoxy-, C (1960), 5120

20-Pregnanone, 3α,12β-diacetoxy-, V 361

1,4,9(11)-Pregnatriene-16α-acetaldehyde, 17α-hydroxy-6α-methyl-3,20-diketo-, γ-lactol, OR 28, 2506

1,4,6-Pregnatrien-17α-ol-3,11,20-trione, 6-chloro-21-acetoxy-, BE 94, 1232

2,4,6-Pregnatrien-20-one,
2-chloro-3,17α-diacetoxy-, BE 94, 1232
4-chloro-3,17α-diacetoxy-, BE 94, 1232
6-chloro-3,17α-diacetoxy-, BE 94, 1232

17α-Pregn-5-en-16α-acetaldehyde, 3β-hydroxy-20-keto-, dimethyl acetal, OR 28, 2504

4-Pregnen-16α-acetic acid, 17α-hydroxy-3,20-diketo-, γ-lactone, OR 28, 2506

4-Pregnene, DL-3,11,20-triketo-18,18-ethylenedioxy-, H 45, 335

5-Pregnene,
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1α,11α-oxido-3,20-diethylenedioxy-, H 44, 192
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3,3-ethylenedioxy-11β,18;18,20-bisoxido-20-(2'-acetylethoxy)-, H 46, 2802
3,3-ethylenedioxy-11β,18;18,20-bisoxido-20-(2'-hydroxyethoxy)-, H 46, 2802

(18S)-5-Pregnene,
18-*O*-acetyl-3,3;20,20-bis-ethylenedioxy-11β,18-oxido-, H 46, 2801
3,3;20,20-bis-ethylenedioxy-11β,18-oxido-18-hydroxy-, H 46, 2801

4-Pregnene-11β,21-diol-3,20-dione, JA 80, 5134
9α-fluoro-, 21-acetate, JA 80, 5128

4-Pregnene-3,11-dione 20,21-bisethylene dioxide, OR 28, 765

4-Pregnene-3,20-dione,
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4-Pregnene-3,11,20-trione, JA 80, 5125

5α-Δ^1-Pregnen-3-oic acid, 2,3-*seco*-11α-hydroxy-20-keto-, methyl ester, H 44, 199

4-Pregnen-17α-ol-3,20-dione, JA 80, 5128

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16-dehydro-, JA 80, 5127
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(+ methyl vinyl ether), OR 28, 2500

4-Pregnen-21-ol-3,11,20-trione, JA 80, 5130

5-Pregnen-11-one 3,20,21-trisethylene dioxide, OR 28, 765

Pristane, AC 34, 52

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Progesterone,
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6β,16α-dimethyl-6α-hydroxy-, FD 34, 106
16β-fluoromethyl-16α,17α-oxido-, BE 95, 2111
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irradiated, PC 62, 796*
3,4-dehydro-, JA 84, 1698
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hydroxy-, irradiated, PC 62, 796*
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cis-4-methyl-, NT 192, 1152
trans-4-methyl-, NT 192, 1152

L-Proline
(+ nickel), FD 34, 89
N-(2,4-dinitrophenyl)-, J 35, 1659
hydroxy-*N*-(2,4-dinitrophenyl)-, J 35, 1659

Promazine
hydrochloride, SC 15, 1550*
chloro-, AC 34, 919*
hydrochloride, SC 15, 1550*

Promethazine hydrochloride, SC 15, 1548*

Propane, HB 432; P 28, 1258; P 32, 68; P 39, 2165*
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1,2-bis(methylthio)-, OR 28, 1954
1,3-bis(methylthio)-, OR 28, 1954
1,2-bis(trifluoromethylthio)-hexafluoro-, JA 84, 3150
1-bromo-, HB 380
1-bromo-3-chloro-, V 29
1-bromo-1,1,2,2,3-pentafluoro-, M 7, 394
1-bromo-1,2,2,3,3-pentafluoro-, M 7, 394
2-chloro-2-methyl-3-phenyl-, V 263
1-chloro-1,1,2,2,3-pentafluoro-, M 7, 394
1-chloro-1,2,2,3,3-pentafluoro-, M 7, 331; M 7, 394
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1,2-dibromo-2-phenyl-, JA 84, 2253
1,2-dichloro-, V 30
1,3-dichloro-, V 31
2,2-dimethoxy-, HB 632
1,1,1,2,2,3,3-heptafluoro-, M 7, 329; M 7, 394
1,1,1,2,2,3-hexafluoro-, M 7, 394
1,1,1,3,3,3-hexafluoro-, M 7, 326; M 7, 394
1,1,2,2,3,3-hexafluoro-, M 7, 323; M 7, 394
1,2,2,3,3,3-hexafluoro-1-chloro-1-iodo-, P 33, 1583
1-iodo-, HB 383
2-methoxychloromercuri-, FD 34, 27
1-nitro-, JA 83, 3909*; JA 84, 4214*; V 42
2-nitro-, JA 84, 4214*; V 41
1,1,2,2,3-pentafluoro-, M 7, 394
1-phenyl-3-bromo-, V 237
1,2,3-trichloro-, C (1963), 133
1,1,1-trifluoro-, M 7, 328; M 7, 394

Propane-1-d_1, 1,2-dibromo-2-phenyl-, JA 84, 2253

1,3-Propanediol, NN[13]8, 435
(+ titanium + hydrogen peroxide), C (1963), 3121*

1-Propanethiol, 2-methyl-, HB 407; HB 693

2-Propanethiol, HB 406

1-Propanol, AC 31, 59; C (1959), 273*; CH 14, 149; CN 41, 2474; CP 56, 782*; F[5]26, 1711*; FS 54, 1310*; HB 127; HB 514; SA 14, 30; V 43
(+ boron trifluoride), IN 8, 470
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3-methoxy-, benzenesulfonate, CP 60, 549
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1-Propanol-1-d_2, JA 84, 39
irradiated, P 35, 51*

1-Propanol-1-d_2-1-C^{13}, JA 84, 39

1-Propanol-2-d_2, irradiated, P 35, 51*

1-Propanol-3-d_3, irradiated, P 35, 51*

2-Propanol, C (1959), 273*; CN 41, 2474; SA 14, 27; SA 14, 30
(+ hydrogen peroxide), irradiated, C (1959), 271*
(+ titanium + hydrogen peroxide), C (1963), 3121*
1-(2-methoxyisopropoxy)-, PS 41, 534

Propanone, phenyl-, HB 370

2-Propanone, 1-phenyl-, oxime, PC 65, 493

Propargyl alcohol, AK 16, 472
(+ titanium + hydrogen peroxide), C (1963), 3121*

Propargyl bromide, JA 81, 1323

Propargyl cyanide, JA 83, 4730

2-Propenal, 3-phenyl-, HB 621

1-Propene, JA 83, 232
2-bromo-, V 23
2-bromo-3-chloro-, P 35, 1040
2-chloro-, JA 82, 3011
3-chloro-, HB 686
1-chloro-2-methyl-, V 67
2,3-dibromo-, CH 13, 14; V 17
cis-1,3-dichloro-, M 3, 343; RL A252, 500
trans-1,3-dichloro-, M 3, 346; RL A252, 497
2,3-dichloro-, M 3, 341; RL A252, 495; V 18
cis-1-fluoro-, M 9, 34
trans-1-fluoro-, M 9, 34
hexafluoro-
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150
1,1,2,3,3-pentacyano-, JA 85, 689*
perfluoro-
(+ sulfur tetrafluoride), IC 1, 759
irradiated, PC 66, 2674*
2-phenyl-, HB 462
cis-1,2,3-trichloro-, M 3, 340
trans-1,2,3-trichloro-, M 3, 340
3,3,3-trichloro-, P 36, 566
1,1,3-tricyano-2-amino-, AB 95, 309

Propenoic acid, *trans*-2-phenyl-, HB 481

2-Propen-1-ol, HB 525
3-phenyl-, HB 526

β-Propiolactone, β-(4-nitrophenyl)-, P 31, 1286

Propionaldehyde, CR 63, 97; HB 144; ZA 170, 184

Propionamide, V 40
N-(*t*-amyl)-, irradiated, JA 83, 576*
α-chlorodiethyl-, TT 11, 5
N,*N*-dimethyl-, PC 65, 1067
(+ iodine), PC 65, 1067
N-ethyl-, irradiated, JA 83, 575*; M 7, 277*
N-hexyl-, irradiated, JA 83, 576*
N-neopentyl-, irradiated, JA 83, 577*
N-propyl-, irradiated, JA 83, 576*
N-propyl-2-d_2-, irradiated, JA 83, 576*

Propionic acid, HB 116; J 33, 1606; ZA 170, 184
2-chloro-, V 25
2-cyano-, methyl ester, V 106
2,3-dibromo-, P 37, 2063
1,2-diphenyl-, CN 40, 1484
methyl ester, CN 40, 1486
2-iodo-, V 27
2-phenyl-, HB 484
2-propionyl-
(+ boric acid, monofluoro-, enol ester anhydride), N 668, 4

Propionitrile, 2-methoxy-, V 69

Propionyl fluoride, JA 84, 2736; JA 85, 1330
(+ antimony pentafluoride), JA 84, 2736; JA 85, 1330
(+ arsenic pentafluoride), JA 84, 2736
(+ boron trifluoride), JA 84, 2736
(+ phosphorus pentafluoride), JA 84, 2736

Propyl, P 39, 2166*

Propylamine, CH 14, 150

Propyl bromide, irradiated, FS 58, 1483*

Propyl bromide-1,1-d_2, irradiated, FS 58, 1483*

Propyl bromide-2,2-d_2, irradiated, FS 58, 1483*

Propylene, P 34, 1427*
irradiated, P 28, 1176*
2-chloro-1,1,3,3,3-pentafluoro-, P 34, 2126
1,2-dichloro-1,3,3,3-tetrafluoro-, P 34, 2123
hexafluoro-
(+ methanethiol, trifluoro-), JA 83, 843
perfluoro-, P 34, 2122

Propylene-d_6, P 34, 1426

1,2-Propylenediaminetetraacetic acid
(+ nickel), FD 34, 94
tetrasodium salt
(+ cobalt), FD 34, 94
trisodium salt
(+ cobalt), FD 34, 94

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Propylene, hexafluoro-tetrafluoroethylene copolymer, irradiated, NB 65A, 380*

Propylene, hexafluoro-vinylidene fluoride copolymer, JA 82, 2417

Propylene oxide, P 36, 2097; V 32

Propylene oxide-ethylene oxide copolymer, AC 35, 1283

Propylene sulfite, JA 83, 2107

Propyl hexadecyl ether, B 232, 686

Propyl iodide, irradiated, JA 85, 3732*; P 34, 1169*

Propyl-1-d iodide, irradiated, P 34, 1170*

Propyl-2-d iodide, irradiated, P 34, 1170*

Propyl nitrite, P 30, 907

Propyne
(+ pentaborane-9), JA 84, 2830

irradiated, P 31, 351*
3-chloro-, Z 34, 275
1,1,1-trifluoro-, M 7, 386

2-Propyn-1-ol, V 21

Prostaglandin E_3 methyl ester, JA 85, 1878

Protopine, V 339

Protoporphyrin-9, JA 83, 3746

Pseudotropine
deuteriochloride, JA 81, 5457
ethiodide, JA 81, 5459
hydrochloride, JA 81, 5457
methiodide, JA 81, 5457

Pseudouridine, B 235, 1494

Pteridine, 2-amino-6-hydroxy-, H 46, 1182

Pterine, H 46, 1182

Pterine-8-carboxamide, 9,10-dihydro-, H 46, 1181

Pterocarpin, FD 34, 109; JA 84, 1923

Pulegone oxide, OR 28, 2558

Pump oil, HB 428

Puparia, AB 86, 226*

Purine,
4-acetyl-, C (1963), 1418
5-acetyl-, C (1963), 1418
6-acetyl-, C (1963), 1418
7-acetyl-, C (1963), 1418
9-acetyl-, C (1963), 1418
9-acetyl-6-methyl-, C (1963), 1418

Puromycin, JA 85, 1824; JA 85, 3701

Pyran,
dihydro-, V 111
(+)-*cis*-2-(2'-methyl-1'-propenyl)-4-methyltetrahydro-, H 44, 604
(-)-(4R)-*cis*-2-(2'-methyl-1'-propenyl)-4-methyltetrahydro-, H 44, 604
2,6,6-trimethyl-2-vinyl-5-hydroxytetrahydro-, H 46, 1534

γ-Pyran, JA 84, 2452

4H-Pyran-4-ol, 2,2-dimethyl-3,4-dihydro-, OR 28, 693

2-Pyranyl isocyanate, tetrahydro-, OR 28, 2083

Pyrazine, P 35, 2259*; P 39, 1639*

3-Pyrazolidone, 1-phenyl-
(+ anthraquinone, diamino-), PC 67, 2638*
(+ chloranil), PC 67, 2638*

1-Pyrazoline,
3,5-bis(4-chlorophenyl)-, JA 85, 2753
3-carbomethoxy-*cis*-3,4-dimethyl-, JA 84, 3737
3-carbomethoxy-*trans*-3,4-dimethyl-, JA 84, 3737
3,5-diphenyl-, JA 85, 2753

2-Pyrazoline,
1,5-diphenyl-, OR 28, 2328
3-methyl-1-(2,4-dinitrophenyl)-, OR 28, 2329
5-methyl-1-(2,4-dinitrophenyl)-, OR 28, 2328

5-Pyrazolone, 1-(2,4-dinitrophenyl)-3-phenyl-, OR 25, 1355

Pyrene, HB 111; JA 80, 4554*; JA 83, 1840; P 34, 508*; P 36, 2444
potassium salt, P 33, 1591

Pyrex glass, P 29, 990; P 39, 2390
irradiated, P 39, 2865*

Pyridazine
(+ maleic anhydride), TT 19, 1239

Pyridine, CN 39, 326; CN 39, 1159; CR 63, 105; HB 284; HB 653; V 96; ZA 164, 132
(+ copper), P 36, 3230*
(+ copper + benzoic acid), CP 60, 370*
(+ copper + cyanide), ZP 221, 201*
(+ copper + persulfate), P 35, 764*
(+ copper + sulfate), P 35, 763*
(+ copper + thiocyanate), ZP 221, 200*
(+ decaborane), C (1961), 2199
(+ lithium aluminum deuteride), JA 85, 2238
(+ lithium aluminum hydride), JA 85, 2238
(+ platinum + nitrate), CN 39, 326
(+ potassium), JA 83, 3624*
(+ sodium), J 34, 291*
(+ vanadium + acetylacetone), IC 2, 257*
(+ zinc + persulfate), P 35, 764*
4-(2-acetoxyvinyl)-, CA 44, 515
2-acetyl-, P 37, 2608
3-acetyl-, P 36, 267
4-acetyl-, P 37, 2817*
2-amino-, CA 44, 515
hydrochloride dimer, JA 85, 779
2-amino-5-chloro-, hydrochloride dimer, JA 85, 779
2-amino-6-ethoxy-3,5-dicyano-4-phenyl-, CN 41, 1043
2-amino-6-methoxy-3,5-dicyano-4-phenyl-, CN 41, 1043
2-amino-3-methyl-, hydrochloride dimer, JA 85, 780
2-amino-4-methyl-, hydrochloride dimer, JA 85, 780

2-amino-5-methyl-, hydrochloride dimer, JA 85, 781
2-amino-6-methyl-, hydrochloride dimer, JA 85, 781
2-aminomethyl-5-hydroxy-, N 665, 173
3-benzoyl-, OR 28, 169
3-benzoyl-4-phenyl-, OR 28, 169
2-bromo-, P 37, 2608
3-bromo-, P 36, 273
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3-chloro-, P 36, 272
2-cyano-, P 37, 2607
4-cyano-, CA 44, 515
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3-ethyl-4-nitro-, CA 44, 515
2-methyl-, OR 27, 4642
4-methyl-, CA 44, 515
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1-oxide, J 36, 1667*
N-phenyl-1,2-dihydro-, OR 27, 1440
N-phenyl-1,4-dihydro-, OR 27, 1440
1,2,5,6-tetrahydro-, FD 34, 111; V 115
4-thiocarboxamido-, CA 44, 515
1,4,4-trimethyl-1,4-dihydro-, OR 27, 3767
2-vinyl-, V 154
4-vinyl-, V 155

Pyridine-3-d_1
(+ potassium), JA 83, 3624*

Pyridine-4-d_1
(+ lithium aluminum deuteride), JA 85, 2238
(+ lithium aluminum hydride), JA 85, 2238

Pyridine-2,6-d_2
(+ potassium), JA 83, 3624*

Pyridine-3-carboxaldehyde, P 36, 273

Pyridine-4-carboxaldehyde, CA 44, 515

Pyridine-2,3-dicarboxylic acid dimethyl ester, C (1960), 1697

Pyridine-3-sulfonic acid, 2,6-di-*t*-butyl-, OR 24, 1151

Pyridinium, CR 63, 105

Pyridinium bromide,
N-(α-D-glucopyranosyl)-3-carboxamido-, CN 41, 892
N-(β-D-glucopyranosyl)-3-carboxamido-, CN 41, 892
N-(tetra-*O*-acetyl-α-D-glucopyranosyl)-3-carboxamido-, CN 41, 891
N-(tetra-*O*-acetyl-β-D-glucopyranosyl)-3-carboxamido-, CN 41, 891

Pyridinium chloride
(+ chromyl chloride), IN 25, 936*
cetyl-, SC 17, 1478

Pyridinyl, 1-ethyl-4-carbomethoxy-, JA 85, 2035*

2-Pyridone,
N,6-dimethyl-, dimer, JA 85, 782
1,3-dimethyl-, photodimer, JA 85, 768
1,4-dimethyl-, photodimer, JA 85, 768
1,5-dimethyl-, photodimer, JA 85, 768
N-isopropyl-, photodimer, JA 85, 768
N-methyl-, photodimer, JA 83, 4472
1-methyl-, C (1962), 851
N-propyl-, photodimer, JA 85, 768

Pyridoxamine, JA 85, 2815
phosphate, JA 85, 2815

Pyridoxol, JA 85, 2814
4-deoxy-, JA 85, 2814

Pyrimidine, AK 16, 460; JA 84, 337
2-amino-, AK 16, 464
2-hydroxy-, AK 16, 465
2-methyl-, JA 84, 337
4-methyl-, JA 84, 337

4-Pyrimidinone, 2-acetamido-3,4-dihydro-6-phenyl-, C (1963), 2749

Pyrimido[5,4-e]-*as*-triazine,
5-amino-3-methyl-, OR 28, 3040
5-chloro-1,2-dihydro-, OR 28, 3040

2-Pyrindine, 2-phenyl-, JA 85, 3451

Pyrocatechol, V 124

Pyrogallol, P 37, 2621

Pyromellitic acid tetramethyl ester, HB 609

Pyromellitic anhydride
(+ poly[methacrylic acid]), irradiated, NT 195, 262*

Pyromellitonitrile, JA 85, 3938*

β-Pyrone, 2,6-dimethyl-, V 166

Pyronin Y
(+ chloranil), PC 67, 2637*

Pyrophosphate, CH 13, 22

Pyroracemic acid ethyl ester, H 44, 879

Pyrotriacanthine chloride, JA 84, 2155

Pyrrole, CN 37, 1061; HB 404; P 32, 1225; V 55
(+ thiocyanogen), AK 18, 152

2-acetyl-, AK 18, 136
2-*s*-butyl-, JA 84, 4658
3-*s*-butyl-, JA 84, 4658
2-*t*-butyl-, JA 84, 4658
3-*t*-butyl-, JA 84, 4658
3-carbomethoxy-, AK 18, 137
2-cyano-, CN 39, 909
2,3-dimethyl-, CN 37, 1062
2,4-dimethyl-, CN 37, 1865; V 131
2,5-dimethyl-, CN 37, 1062; JA 85, 27
3,4-dithiocyano-, SC 15, 227
2-ethyl-, V 130
2-isopropyl-, JA 84, 4658
3-isopropyl-, JA 84, 4658
N-methyl-, JA 85, 2764
2-methyl-, AK 18, 137; CN 37, 1063; JA 84, 4658
1-methyl-2-acetyl-, V 174
2-methyl-3-amyl-, V 278
3-methyl-4-carbethoxy-, AK 18, 134
2-methylthio-, AK 18, 155
2-methyl-5-thiocyano-, AK 18, 154
3-propyl-, JA 84, 4658; V 177
2,3,4,5-tetramethyl-, CN 37, 1862
1,2,5-trimethyl-, JA 85, 29
1,3,5-trimethyl-, AK 18, 138
2,3,4-trimethyl-, CN 37, 1863
2,3,5-trimethyl-, CN 37, 1864

Pyrrole-*N*-d, CN 37, 1061

Pyrrole-2-aldehyde, AK 18, 135; CN 39, 908; V 98
1,5-dimethyl-, V 170
5,*N*-dimethyl-, CH 17, 179
5-methyl-, AK 18, 134

Pyrrole-5-aldehyde, 2-methylthio-, AK 18, 157

Pyrrole-2-carboxylic acid, FD 34, 134

Pyrrole-3-thiocarbanilide, 2,5-dimethyl-, CN 37, 1393

Pyrrole-5-thiocarbanilide,
2,4-dimethyl-, CN 37, 1393
2,4-dimethyl-3-ethyl-, CN 37, 1393

Pyrrolidine, HB 403; ZA 170, 202
tetrahydro-, TT 18, 808

Pyrrolidinium perchlorate, *N*-isobutylidene-, OR 28, 3022

2-Pyrrolidone, V 68
1-methyl-, V 116

2-Pyrroline, octyl-2-methyl-4-keto-, CN 41, 626

3-Pyrroline, 1,2,5-trimethyl-, OR 28, 3056

1,8-Pyrrolizidene, 1-carboethoxy-3-keto-, OR 27, 4057

Pyrrolizidine, 1-methoxymethyl-1,2-epoxy-, AU 16, 133

5H-Pyrrolo[2,1-a] isoindole-1-carboxylic acid, 3-phenyl-2,5-diketo-2,3-dihydro-, ethyl ester, H 46, 1031

Δ^3-Pyrrol-2-one,
5-hydroperoxy-1,3,4,5-tetramethyl-, BE 96, 2726
4-nitrobenzoate, BE 96, 2726
1,3,4,5-tetramethyl-, BE 96, 2726

Pyruvate
(+ Clostridium pasteurianum), NT 196, 434*
(+ nitrogenase), NT 196, 434*

Pyruvic acid, HB 321
irradiated, P 30, 697*
2-chloro-6-nitrophenyl-, V 223

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Quadricyclene, TT 15, 199

Quantasome, S 138, 869*

Quartz, P 31, 429*
irradiated, CN 38, 691*; NT 197, 247*

Quartz-germanium, irradiated, P 39, 78*

Quebrachamine, JA 82, 2186

Quercitol, JA 83, 2337
bromo-, JA 83, 2337

Quinodimethane, tetracyano-
(+ cesium), P 36, 2971*
7,7,8,8-tetracyano-, JA 85, 2695*

β-Quinol
(+ nitrogen), SD 11, 216
(+ oxygen), SD 18, 277*

Quinoline, CN 41, 1842
5,7-dichloro-, P 32, 1274
5,7-dimethyl-, P 32, 1274
6-methoxy-, V 249
6-methoxy-1,2,3,4-tetrahydro-, V 266
8-methyl-, CN 39, 2319; P 32, 1274

Quinolinium chloride
(+ chromyl chloride), IN 25, 938*

8-Quinolinol, CN 39, 2319

Quinolizidine,
1,7-dimethyl-, J 35, 1337

2-acetyl-, AK 18, 136
2-*s*-butyl-, JA 84, 4658
3-*s*-butyl-, JA 84, 4658
2-*t*-butyl-, JA 84, 4658
3-*t*-butyl-, JA 84, 4658
3-carbomethoxy-, AK 18, 137
2-cyano-, CN 39, 909
2,3-dimethyl-, CN 37, 1062
2,4-dimethyl-, CN 37, 1865; V 131
2,5-dimethyl-, CN 37, 1062; JA 85, 27
3,4-dithiocyano-, SC 15, 227
2-ethyl-, V 130
2-isopropyl-, JA 84, 4658
3-isopropyl-, JA 84, 4658
N-methyl-, JA 85, 2764
2-methyl-, AK 18, 137; CN 37, 1063; JA 84, 4658
1-methyl-2-acetyl-, V 174
2-methyl-3-amyl-, V 278
3-methyl-4-carbethoxy-, AK 18, 134
2-methylthio-, AK 18, 155
2-methyl-5-thiocyano-, AK 18, 154
3-propyl-, JA 84, 4658; V 177
2,3,4,5-tetramethyl-, CN 37, 1862
1,2,5-trimethyl-, JA 85, 29
1,3,5-trimethyl-, AK 18, 138
2,3,4-trimethyl-, CN 37, 1863
2,3,5-trimethyl-, CN 37, 1864

Pyrrole-*N*-d, CN 37, 1061

Pyrrole-2-aldehyde, AK 18, 135; CN 39, 908; V 98
1,5-dimethyl-, V 170
5,*N*-dimethyl-, CH 17, 179
5-methyl-, AK 18, 134

Pyrrole-5-aldehyde, 2-methylthio-, AK 18, 157

Pyrrole-2-carboxylic acid, FD 34, 134

Pyrrole-3-thiocarbanilide, 2,5-dimethyl-, CN 37, 1393

Pyrrole-5-thiocarbanilide,
2,4-dimethyl-, CN 37, 1393
2,4-dimethyl-3-ethyl-, CN 37, 1393

Pyrrolidine, HB 403; ZA 170, 202
tetrahydro-, TT 18, 808

Pyrrolidinium perchlorate, *N*-isobutylidene-, OR 28, 3022

2-Pyrrolidone, V 68
1-methyl-, V 116

2-Pyrroline, octyl-2-methyl-4-keto-, CN 41, 626

3-Pyrroline, 1,2,5-trimethyl-, OR 28, 3056

1,8-Pyrrolizidene, 1-carboethoxy-3-keto-, OR 27, 4057

Pyrrolizidine, 1-methoxymethyl-1,2-epoxy-, AU 16, 133

5H-Pyrrolo[2,1-a] isoindole-1-carboxylic acid, 3-phenyl-2,5-diketo-2,3-dihydro-, ethyl ester, H 46, 1031

Δ^3-Pyrrol-2-one,
5-hydroperoxy-1,3,4,5-tetramethyl-, BE 96, 2726
4-nitrobenzoate, BE 96, 2726
1,3,4,5-tetramethyl-, BE 96, 2726

Pyruvate
(+ Clostridium pasteurianum), NT 196, 434*
(+ nitrogenase), NT 196, 434*

Pyruvic acid, HB 321
irradiated, P 30, 697*
2-chloro-6-nitrophenyl-, V 223

Q

Quadricyclene, TT 15, 199

Quantasome, S 138, 869*

Quartz, P 31, 429*
irradiated, CN 38, 691*; NT 197, 247*

Quartz-germanium, irradiated, P 39, 78*

Quebrachamine, JA 82, 2186

Quercitol, JA 83, 2337
bromo-, JA 83, 2337

Quinodimethane, tetracyano-
(+ cesium), P 36, 2971*
7,7,8,8-tetracyano-, JA 85, 2695*

β-Quinol
(+ nitrogen), SD 11, 216
(+ oxygen), SD 18, 277*

Quinoline, CN 41, 1842
5,7-dichloro-, P 32, 1274
5,7-dimethyl-, P 32, 1274
6-methoxy-, V 249
6-methoxy-1,2,3,4-tetrahydro-, V 266
8-methyl-, CN 39, 2319; P 32, 1274

Quinolinium chloride
(+ chromyl chloride), IN 25, 938*

8-Quinolinol, CN 39, 2319

Quinolizidine,
1,7-dimethyl-, J 35, 1337

1(a)-methyl-, picrate, J 35, 1337
1(e)-methyl-, picrate, J 35, 1337
3(a)-methyl-, picrate, J 35, 1337
3(e)-methyl-, picrate, J 35, 1337
4(a)-methyl-, picrate, J 35, 1337
4(e)-methyl-, picrate, J 35, 1337
1,4,7-trimethyl-, J 35, 1338

2H-Quinolizine-1,2,3,4-tetracarboxylic acid,
6,7,8,9-tetrahydro-, tetramethyl ester, C (1960), 1697

4H-Quinolizine-1,2,3,4-tetracarboxylic acid
tetramethyl ester, C (1960), 1697
7,9-dimethyl-, tetramethyl ester, C (1960), 1697

9aH-Quinolizine-1,2,3,4-tetracarboxylic acid,
7,9-dimethyl-, tetramethyl ester, C (1960), 1697
6,7,8,9-tetrahydro-9-methyl-, tetramethyl ester, C (1960), 1697

Quinoxaline,
irradiated, P 39, 3090*
2-acetyl-1,4-dihydro-3-methyl-, C (1959), 1425
2-acetyl-3-methyl-, C (1959), 1425
1,2-dihydro-2,3-diphenyl-
(+ quinoxaline, 2,3-diphenyl-), JA 84, 4156*
2,3-diphenyl-
(+ quinoxaline, 1,2-dihydro-2,3-diphenyl-), JA 84, 4156*

R

Rabbit liver microsomes, B 237, PC 3843*

Radicinin, AB 102, 474

Ramie, irradiated, PS A1, 1165*

Rauwolfinine, I 38, 405

C. Reinhardi cells, AB 99, 193*

Rennin
(+ deuterium oxide), irradiated, JA 83, 1039*
irradiated, JA 83, 1039*

Repandine, C (1961), 1899

Reserpic acid methyl ester, JA 83, 4817
3′,4′,5′-trimethoxybenzoate, JA 83, 4817

Reserpine, JA 83, 4817

Resorcinol,
3-nitro-, CH 17, 180
trinitro-
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*

Rhenium carbonyl,
π-cyclopentadienyl-, C (1958), 4315
π-cyclopentadienylcyclopentene-, C (1958), 4315

Rhodamine B
(+ chloranil), PC 67, 2637*

Rhodamine 5G
(+ chloranil), PC 67, 2637*

Rhodamine 6G
(+ chloranil), PC 67, 2637*

Rhodium
(+ acetone, benzoyl-), JA 84, 2307
(+ acetone, trifluoroacetyl-), JA 85, 503
(+ oxalate), P 34, 68
π-cyclopentadienyl-
(+ cyclooctatetraene), C (1962), 4823
π-cyclopentadienylcyclopentadiene-, C (1959), 3758

Rhodopin, 3,4-dehydro-, SC 15, 2058

Rhodospirillum rubrum, S 138, 868*

Riboflavin, AK 19, 111*
5′-phosphate semiquinone, AB 103, 232*
semiquinone, SC 17, S 189*

β-D-Ribofuranose,
1,2,3,5-tetraacetyl-, BE 93, 139
1,3,5-triacetyl-2-desoxy-, BE 93, 139

Ribonuclease, B 237, 1809; JA 84, 4236
(+ performic acid), B 237, 1810

Ribonucleic acid, PS 55, 581*
deoxy-, CP 58, 931*; PS 55, 584*
irradiated, NT 183, 832*; NT 194, 767*; NT 200, 377*; P 39, 839*

β-D-Ribopyranose, 1,2,3,4-tetraacetyl-, BE 93, 139

Ribose, JA 84, 4468; PS 51, 258

1(a)-methyl-, picrate, J 35, 1337
1(e)-methyl-, picrate, J 35, 1337
3(a)-methyl-, picrate, J 35, 1337
3(e)-methyl-, picrate, J 35, 1337
4(a)-methyl-, picrate, J 35, 1337
4(e)-methyl-, picrate, J 35, 1337
1,4,7-trimethyl-, J 35, 1338

2H-Quinolizine-1,2,3,4-tetracarboxylic acid,
6,7,8,9-tetrahydro-, tetramethyl ester, C (1960), 1697

4H-Quinolizine-1,2,3,4-tetracarboxylic acid
tetramethyl ester, C (1960), 1697
7,9-dimethyl-, tetramethyl ester, C (1960), 1697

9aH-Quinolizine-1,2,3,4-tetracarboxylic acid,
7,9-dimethyl-, tetramethyl ester, C (1960), 1697
6,7,8,9-tetrahydro-9-methyl-, tetramethyl ester, C (1960), 1697

Quinoxaline,
irradiated, P 39, 3090*
2-acetyl-1,4-dihydro-3-methyl-, C (1959), 1425
2-acetyl-3-methyl-, C (1959), 1425
1,2-dihydro-2,3-diphenyl-
(+ quinoxaline, 2,3-diphenyl-), JA 84, 4156*
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Ramie, irradiated, PS A1, 1165*

Rauwolfinine, I 38, 405

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3′,4′,5′-trimethoxybenzoate, JA 83, 4817

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Resorcinol,
3-nitro-, CH 17, 180
trinitro-
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-monomethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{3-ethylbenzothiazolyl}]-trimethine-, iodide), PC 67, 2638*
(+ cyanine, [2-bis{1-ethylquinolyl}]-trimethine-, iodide), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-dimethine), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-hexamethine-), PC 67, 2638*
(+ merocyanine, [2-{1-ethyl-3,3-dimethylindolylidene}]-[5-{1,3-diethyl-2-thiobarbiturylidene}]-tetramethine-), PC 67, 2638*

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(+ chloranil), PC 67, 2637*

Rhodamine 5G
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Rhodium
(+ acetone, benzoyl-), JA 84, 2307
(+ acetone, trifluoroacetyl-), JA 85, 503
(+ oxalate), P 34, 68
π-cyclopentadienyl-
(+ cyclooctatetraene), C (1962), 4823
π-cyclopentadienylcyclopentadiene-, C (1959), 3758

Rhodopin, 3,4-dehydro-, SC 15, 2058

Rhodospirillum rubrum, S 138, 868*

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5′-phosphate semiquinone, AB 103, 232*
semiquinone, SC 17, S 189*

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1,3,5-triacetyl-2-desoxy-, BE 93, 139

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(+ performic acid), B 237, 1810

Ribonucleic acid, PS 55, 581*
deoxy-, CP 58, 931*; PS 55, 584*
irradiated, NT 183, 832*; NT 194, 767*; NT 200, 377*; P 39, 839*

β-D-Ribopyranose, 1,2,3,4-tetraacetyl-, BE 93, 139

Ribose, JA 84, 4468; PS 51, 258

α-D-Ribose tetraacetate, JA 80, 6101

β-D-Ribose tetraacetate, JA 80, 6101

Ricinoleic acid
ethyl ester, CN 37, 778
methyl ester, OR 27, 3114

Riddelic acid dimethyl ester, JA 83, 923

Rimuene, AU 16, 1105; JA 83, 999

Rochelle salt, irradiated, P 35, 209*

Rochelle salt-d, irradiated, P 35, 210*

Rose Bengal
(+ chloranil), PC 67, 2637*

Rose quartz, irradiated, NT 197, 247*

Rubber, HB 700; SA 14, 36
irradiated, PS 47, 503*

Rubidium
(+ methylamine), P 38, 2033*

Rubidium chloride, IS 50, 258

Rubidium hexafluorophosphate, P 39, 1991

Rubidium iodide-potassium iodide, P 38, 2303

Rubidium nitrate
(+ ammonium nitrate), FS 57, 215

Rubidium oxide-boron oxide glass, GL 4, 45

Rubidium perborate, C (1958), 290

Ruby, PC 66, 279*; PY 32, 218S*

Ruthenium, PY 33, 371*

Rutile, PY 32, 2234*

Rutile-niobium, PY 32, 866*

Rutile-tantalum, PY 32, 867*

S

Sabinene, F[5]29, 1987

Saccharose, CP 59, 94*

Safflower oil, AC 34, 1137; CN 37, 780

Safrole, V 253

Salicylaldehyde, J 34, 356; P 39, 2895
4-isopropyl-, V 259
3-nitro-, SC 17, 1714
5-nitro-, SC 17, 1715

Salicylaldimine
(+ copper), P 29, 36*
isopropyl-, SA 19, 1275
5-methyl-*N*-*s*-butyl-
(+ nickel), JA 85, 821

Salicylaldoxime, V 156
(+ copper), P 36, 3231*

Salicylate, hexahydro-, J 36, 1405

Salicylic acid methyl ester, P 38, 294

Samaderin C diacetate, F[5]29, 1717

Samaderol, F[5]29, 1718

Sandaracopimaric acid methyl ester, JA 83, 999

Saran, irradiated, PS 57, 942*

Sarcosine, P 36, 3104
(+ nickel), FD 34, 91
methyl ester, P 36, 3104

Sarcostin, tri-*O*-acetyldihydro-, H 46, 699

Sarracine *N*-oxide, OR 26, 3047

Sarracinic acid, OR 26, 3047

Sarsasapogenin, JA 81, 1688

Scenedesmus, S 140, 1096*

Secalonic acid, BE 95, 1332

3,4-Seco-4,4′,5-androstadien-3-acid, 17-keto-4,4-dimethyl-, methyl ester, H 45, 2680

13,17-Seco-5,12-androstadien-17-acid, 3-ethylenedioxy-, methyl ester, H 45, 2677

13,17-Seco-4-androsten-17-acid, 3-ethylenedioxy-13-acetoxy-, methyl ester, H 45, 2677

4,5-Seco-3α,5α-cholestane 4,5β-dioxide, JA 82, 1689

3,4-Seco-3α,5α-cholestan-6-one
3β,4-dioxide, JA 82, 1703
desoxo-, 3β,4-dioxide, JA 82, 1703

α-D-Ribose tetraacetate, JA 80, 6101

β-D-Ribose tetraacetate, JA 80, 6101

Ricinoleic acid
ethyl ester, CN 37, 778
methyl ester, OR 27, 3114

Riddelic acid dimethyl ester, JA 83, 923

Rimuene, AU 16, 1105; JA 83, 999

Rochelle salt, irradiated, P 35, 209*

Rochelle salt-d, irradiated, P 35, 210*

Rose Bengal
(+ chloranil), PC 67, 2637*

Rose quartz, irradiated, NT 197, 247*

Rubber, HB 700; SA 14, 36
irradiated, PS 47, 503*

Rubidium
(+ methylamine), P 38, 2033*

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Rubidium hexafluorophosphate, P 39, 1991

Rubidium iodide-potassium iodide, P 38, 2303

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(+ ammonium nitrate), FS 57, 215

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Ruthenium, PY 33, 371*

Rutile, PY 32, 2234*

Rutile-niobium, PY 32, 866*

Rutile-tantalum, PY 32, 867*

S

Sabinene, F[5]29, 1987

Saccharose, CP 59, 94*

Safflower oil, AC 34, 1137; CN 37, 780

Safrole, V 253

Salicylaldehyde, J 34, 356; P 39, 2895
4-isopropyl-, V 259
3-nitro-, SC 17, 1714
5-nitro-, SC 17, 1715

Salicylaldimine
(+ copper), P 29, 36*
isopropyl-, SA 19, 1275
5-methyl-*N*-*s*-butyl-
(+ nickel), JA 85, 821

Salicylaldoxime, V 156
(+ copper), P 36, 3231*

Salicylate, hexahydro-, J 36, 1405

Salicylic acid methyl ester, P 38, 294

Samaderin C diacetate, F[5]29, 1717

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Sandaracopimaric acid methyl ester, JA 83, 999

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methyl ester, P 36, 3104

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Sarracine *N*-oxide, OR 26, 3047

Sarracinic acid, OR 26, 3047

Sarsasapogenin, JA 81, 1688

Scenedesmus, S 140, 1096*

Secalonic acid, BE 95, 1332

3,4-Seco-4,4′,5-androstadien-3-acid, 17-keto-4,4-dimethyl-, methyl ester, H 45, 2680

13,17-Seco-5,12-androstadien-17-acid, 3-ethylenedioxy-, methyl ester, H 45, 2677

13,17-Seco-4-androsten-17-acid, 3-ethylenedioxy-13-acetoxy-, methyl ester, H 45, 2677

4,5-Seco-3α,5α-cholestane 4,5β-dioxide, JA 82, 1689

3,4-Seco-3α,5α-cholestan-6-one
3β,4-dioxide, JA 82, 1703
desoxo-, 3β,4-dioxide, JA 82, 1703

13,17-Seco-1,3,5(10),6,8,11,13-estraheptaen-17-oic acid, 3-methoxy-, *t*-butyl ester, C(1963), 5541

13,17-Seco-1,3,5(10),8,11,13-estrahexaen-17-oic acid, 3-methoxy-, *t*-butyl ester, C(1963), 5541

Securinine, F[5]30, 903; TT 19, 2087

Sedinin, BE 93, 2361
  diacetate, BE 93, 2361

Senecic acid dimethyl ester, JA 83, 923

Seneciphyllic acid dimethyl ester, JA 83, 923

Sepia melanin, AB 86, 227*

Serine, irradiated, SC 15, 794*

DL-Serine-d, irradiated, P 35, 765*

L-Serine,
  irradiated, PC 62, 796*
  N-(2,4-dinitrophenyl)-, J 35, 1659

Sesamin, OR 27, 3234

(+)-Sesamin, BE 94, 2528

Sesangolin, OR 27, 3234

2-Silamorpholine,
  N-diethanolamino-, ZC 314, 254
  N-methylethanolamino-, ZC 314, 254

Silane,
  4-biphenylyltriphenyl-, C (1962), 53*
  di-(4-biphenylyl) diphenyl-, C (1962), 53*
  dichlorodiethyl-, JA 82, 5984
  diethylbis(perfluorovinyl)-, SA 17, 970
  diphenylallyl-, PS 58, 1355*
  divinyldiphenyl-, SA 19, 322
  ethyldiallyl-, PS 58, 1354*
  ethylphenylallyl-, PS 58, 1355*
  ethyltriethoxy-, V 222
  methyldichloro-, O 14, 168
    (+ acetic acid vinyl ester), ZA 164, 130
    (+ acrylic acid methyl ester), ZA 164, 130
  methyltriethoxy-, V 184
  methyltrimethoxy-, V 93
  methyltrivinyl-, P 37, 2065
  phenyltrichloro-, F[5]30, 2785
  phenyltrimethyl-, FS 59, 54*
  tetraethyl-, P 30, 1589
  tetraphenyl-, C (1962), 53*
  tetravinyl-, P 37, 1952; P 39, 2502; SA 19, 322
  trichloroethyl-, JA 82, 5984
  triethoxyvinyl-, V 219
  triphenyl-, V 331
  triphenylchloro-, F[5]30, 2785
  triphenylethoxy-, V 341
  vinylchlorodiphenyl-, PC 67, 2363
  vinyltribenzyl-, PC 67, 2363
  vinyltrichloro-, V 3
  vinyltrimethyl-, P 35, 2039
  vinyltriphenyl-, PC 67, 2363

Silane-d_3, P 36, 2629

Silica gel, CP 60, 1018
  irradiated, O 13, 46*

Silica-nickel catalyst, P 35, 379*

Silicon, S 135, 902*; SD 8, 486*; SD 8, 491*
  irradiated, PY 30, 1200*; SD 24, 3*

Silicon carbide, SD 24, 1226*; SD 24, 1227

Silicon-phosphorous, PY 30, 1196*; S 135, 902*

Silicon tetrafluoride
    (+ methanol), CN 41, 1482
  irradiated, PC 66, 2675*

Silicone antifoaming agent, HB 427

Silicone grease, HB 426; PS 55, 362

Silicone pump oil, HB 428

Silk
    (+ persulfate), NT 196, 668*
  irradiated, NT 196, 668*

Siloxane, hexamethyl-, J 33, 71

Silver, P 35, 1699*; RL A271, 244*
    (+ ammonia), M 2, 542
    (+ *cis*-2-butene), C (1960), 2521
    (+ cyclohexene), C (1960), 2521
    (+ dithiocarbamate, diisopropyl-), AK 17, 254*; NT 184, 183*
    (+ phthalocyanine), JA 85, 2375*
    (+ 1-picoline), P 35, 1700*

Silver fluoride, JA 82, 2688

Silver subfluoride, JA 82, 2688

Silver trihydrogen periodate, SA 16, 855

4-Sitosten-3-one, 6α-methyl-, JA 84, 206

β-Sitosterol, JA 84, 206

Skatole, JA 84, 2535

Skytanthin, IT 91, 1038

Smilagenin, JA 81, 1688

Smoke, SC 17, 1302*

Soda-aluminosilicate glass, GL 3, 41*

Sodium, CA 45, 166; SD 5, 245; SD 24, 300*; SD 24, 1560*
(+ benzene, 1,3-dinitro-), P 36, 1406*
(+ 2,2′-bipyridyl), P 37, 684*
(+ 1-butene, 1,1,3,3-tetraphenyl-), C (1963), 3957*
(+ cycloöctatetraenyl), JA 85, 2362*
(+ ethylene, tetraphenyl-), C (1963), 3957*
(+ isoprene), J 32, 891*
(+ methane, bis[diethoxyphosphonyl]-), JA 84, 4455
(+ pyridine), J 34, 291*
(+ styrene), J 31, 539*

Sodium azide, J 35, 172; P 33, 890*; P 33, 1267*; P 35, 1444*
irradiated, P 34, 1499*; P 35, 1445*; P 39, 1207*

Sodium borate glass, irradiated, P 39, 2864*

Sodium borofluoride, P 32, 290

Sodium borohydride
(+ sodium diborohydride), IC 2, 525

Sodium chloride, IS 50, 258; NT 182, 1659; NT 183, 1803; SD 18, 13

Sodium chloride-manganese, PY 33, 368*

Sodium chloride-silver, RL A271, 246*

Sodium cyanide, M 3, 31

Sodium diborohydride
(+ sodium borohydride), IC 2, 525

Sodium dihydrogen phosphate, CA 45, 167; SA 16, 855

Sodium dithionate dihydrate, Z 38, 142

Sodium fluoride
(+ aluminum, triethyl-), ZA 170, 185

Sodium fluoride-chromium, P 38, 1982*

Sodium hexafluorophosphate, P 39, 1990

Sodium hydride
(+ aluminum, triethyl-), ZA 170, 185

Sodium iodide, PY 30, 1426; SD 11, 161

Sodium-lead alloy, IS 56A, 314

Sodium metaphosphate glass, NT 188, 1104

Sodium monoamidotriphosphate, F[5]28, 1454

Sodium monofluorophosphate, CH 13, 23

Sodium nitrate, irradiated, P 35, 1355

Sodium nitrite, M 2, 553

Sodium ozonide, C (1959), 955*

Sodium perborate, C (1958), 290
tetrahydrate, C (1958), 290

Sodium perpyrophosphate, C (1958), 292

Sodium sesquicarbonate, SA 16, 855

Sodium thiosulfate,
irradiated, CN 41, 2107*
pentahydrate, irradiated, CN 41, 2107*

Sodium trimetaphosphate, F[5]28, 1454; ZC 296, 223

Sodium triphosphate, F[5]28, 1454; ZC 296, 223

Solanesol, BJ 88, 475; H 43, 1747; V 367

Soot, SC 17, 1303*

Sorbic acid, irradiated, P 37, 364*

Sorbose, diacetone-, irradiated, PC 67, 2189*

L-Sorbose, irradiated, PC 67, 967*

Soyasapogenol-B triacetate, OR 27, 4514

Spegazzinidine, JA 84, 3481

Sperm heads
(+ cysteamine), NT 193, 291*
irradiated, NT 193, 291*

Spinach chloroplast, NT 195, 964*; S 138, 868*

Spirohexane-1-carboxylic acid ethyl ester, JA 82, 1968

4,6-Spirostadien-3-one, 6-methyl-, BE 94, 1232

Spiro[5,5]undecane-1,5,9-trione, 7,11-diphenyl-, R 82, 209

Spores, irradiated, S 132, 1768*

Squalane, CA 45, 165

all-trans-Squalene, JA 82, 5750

Stannane,
diethyldichloro-, SA 19, 1965
dimethoxydiethyl-, SA 19, 1965
dimethyl-, CN 41, 3007
dimethylbis(1,1,2,2-tetrafluoroethyl)-, CN 41, 3010
dimethyldiethyl-*t*-, ZP 223, 101*
dimethyl-(1,1,2,2-tetrafluoroethyl)-, CN 41, 3009
tetraethyl-, P 34, 1051
tetramethyl-, CR 63, 108
tetravinyl-, PC 65, 226
triphenyl-, BE 96, 3271

Starch, irradiated, FS 54, 1297*; PS 50, 350*

Stearic acid, CN 38, 360
cesium salt, FS 58, 135
ethyl ester, CN 41, 379
potassium salt, CN 38, 1952
rubidium salt, FS 58, 134
9,10-diacetoxy-, CN 37, 779

α'-Stearin, α,β-diacetyl-, B 232, 686

β-Stearin, α,α'-diacetyl-, B 232, 686

1-Stearodimyristin, C (1960), 439

Sterculia oil, CN 37, 781

Sterculic acid, CN 37, 781; JA 80, 503
(+ acetic acid), JA 83, 228
dihydro-, CN 37, 781
methyl ester, CN 37, 781

5β-Stigmast-22-en-3-one, JA 84, 205

Stigmasteryl acetate, JA 80, 5127

Stilbene, J 33, 960*

cis-Stilbene, V 305

trans-Stilbene, HB 313; V 306

Stilbenequinone, JA 84, 2258

Stoddard solvent, HB 702

Stopcock grease, HB 426

Streptamine,
deoxy-, CN 41, 859
4,6-di-*O*-acetyl-5-*O*-methyl-1,3-di-*N*-methyl-deoxy-, dihydrogen perchlorate, CN 41, 860
asym-di-*O*-acetyl-*N*,*N'*-tetramethyl-2-deoxy-, JA 82, 5929
sym-di-*O*-acetyl-*N*,*N'*-tetramethyl-2-deoxy-, JA 82, 5929
di-*N*-carbobenzoxytetra-*O*-acetyl-, JA 83, 2008
pentaacetyldesoxy-, BE 96, 2050
4,5,6-tri-*O*-acetyl-*N*,*N'*-tetramethyl-2-deoxy-, JA 82, 5929

Streptolic acid, JA 85, 4036

Streptolidine dihydrochloride, C (1963), 4261

Strontium sulfide-europium, gadolinium, O 11, 280*

Strontium sulfide-gadolinium, O 11, 281*

Strontium titanate, P 38, 727

Strophanthidol,
di-*O*-acetyl-, H 46, 229
di-*O*-acetyl-1α,11α-oxido-, H 46, 229

Strychnospermine, CN 41, 884

Styrene, CH 14, 149; J 32, 100*; J 33, 954*; J 33, 1417; J 34, 561; JA 85, 2860; P 31, 999; PC 67, 2874
(+ methane, tetranitro-), irradiated, SC 16, 1808*
(+ sodium), J 31, 539*
irradiated, CP 60, 1350*
β,β-dicyano-2-methyl-, V 283
2,3-dimethoxy-β-nitro-, V 257
α-methyl-, J 33, 955*; JA 84, 2254; PS 55, 184; V 232
4-methyl-, J 33, 956*
cis-α-methyl-β-bromo-, JA 84, 2255
trans-α-methyl-β-bromo-, JA 84, 2255

Styrene-α-d_1, J 33, 1417; PC 67, 2874

Styrene-β-d_1, J 34, 561; JA 85, 2860
cis-α-methyl-, JA 84, 2254
trans-α-methyl-, JA 84, 2254

Styrene-α,β-d_2, J 34, 561

Styrene-butadiene copolymer, AA 29, 506; PS 38, 86; SA 14, 36

Styrene glycol, HB 551

Styrene-methacrylic acid methyl ester copolymer, PS 62, 200; PS 62, S 11

Styrene oxide, M 9, 478; P 31, 1286; P 32, 1381; V 193

Succinic acid, HB 325
irradiated, P 32, 1538*; P 34, 1447*; P 35, 758*; P 38, 2923*

diethyl ester, HB 149; P 37, 102; V 215
acetyl-, diethyl ester, V 277
rac-α,α'-di-*t*-butyl-, monopotassium salt, PC 64, 768
ethylidene-, dimethyl ester, JA 83, 923
mercapto-, irradiated, P 38, 1600
methyl-, CN 39, 2267

Succinic acid-*O*,*O*'-d_2, irradiated, C (1962), 367*

β-Succinic acid, irradiated, P 32, 1536*

Sucrose,
irradiated, P 30, 697*; P 35, 2145*; P 37, 203*
deoxy-hepta-*O*-methyl-, CN 40, 2397
hepta-*O*-methyl-, CN 40, 2396
mono-*O*-tosyl-hepta-*O*-methyl-, CN 40, 2397

Sucrose char, P 34, 328

Sulfamic acid, J 31, 786

Sulfamide, CN 41, 2649

Sulfate
(+ copper + dipyridyl), P 35, 763*
(+ copper + ethylenediamine), P 39, 1141*
(+ copper + pyridine), P 35, 763*

5-Sulfobenzoic acid, 3-nitro-, sodium hydrogen salt, IS 54A, 339

Sulfolane, 2,4-dimethyl-, HB 424

Sulfoperamidic acid, C (1959), 2822

Sulfur, P 33, 775*
(+ carbon disulfide), PC 63, 2087*
(+ guanidine, tetramethyl-), JA 85, 544*
pyrolysed, P 39, 934*
allylpentafluoro-, FS 59, 625
bis(pentafluoro)-, peroxide, C (1962), 3080
bis(perfluoroisopropyl)-, monoxide, IC 1, 760
bromopentafluoro-, IC 1, 217
4-chlorobutylpentafluoro-, FS 59, 627
2-chloroethylpentafluoro-, FS 59, 627
chloropentafluoro-, C (1961), 4739; IC 1, 217
2-chloropropylpentafluoro-, FS 59, 626
difluorobis(perfluoroisopropyl)-, IC 1, 759
difluorotrifluoromethylperfluoroisopropyl-, IC 1, 760
ethoxyperfluoroisopropyl-, monoxide, IC 1, 761
fluoroperfluoroisopropyl-, IC 1, 760
pentafluoro-,
fluorosulfite, IC 1, 217
fluorosulfonate, C (1961), 4739
hypofluorite, C (1962), 3080; JA 84, 2261
pentafluoroethylpentafluoro-, JA 84, 3668
tetrafluoro-, CN 41, 1016
(+ propene, perfluoro-), IC 1, 759
cis-tetrafluorobis(fluorosulfonato)-, JA 83, 4525
tetrafluorotrifluoromethylpentafluoroethyl-, JA 84, 3667
trifluoromethylpentafluoro-, IC 1, 217
trifluoroperfluoroisopropyl-, IC 1, 760
vinylpentafluoro-, FS 59, 624

Sulfur dioxide
(+ poly[vinyl chloride], irradiated), PS 50, 354*
(+ Teflon, irradiated), PS 50, 353*

Sulfuric acid
(+ iron + benzene), irradiated, O 11, 42*

Sulfur phenoxide, pentafluoro-, C (1961), 4739

Sulfur tetrafluoride, JA 81, 1086; P 28, 994

Sumikathene, PS 50, 355*

Suprasil, irradiated, JA 85, 3732*

T

Tantalum, PY 32, 867*; SD 16, 38

Tantalum hydride, di-(π-cyclopentadienyl)-, C(1961), 4855

Tar, J 34, 882; SC 17, 1300*
irradiated, SC 17, 1300*

DL-Tartaric acid, irradiated, P 36, 1144*

D-Tartaric acid, HB 317

Tartronic acid *O*-*t*-butyl ester, AK 20, 236

Tasmanone, AU 16, 705

Tayloron, di-*O*-acetyl-, H 46, 699

Tecostanine, F[5]30, 2802

Tecostidine, F[5]30, 2901

Teepleite, P 35, 437

Teeth, irradiated, NT 200, 701*

Teflon, PS 50, 352*; PY 31, 1850
(+ carbon monoxide), irradiated, P 30, 402*
(+ nitric oxide), irradiated, P 30, 402*
(+ oxygen), irradiated, P 30, 401*
irradiated, P 30, 400*
(+ sulfur dioxide), PS 50, 353*

diethyl ester, HB 149; P 37, 102; V 215
acetyl-, diethyl ester, V 277
rac-α,α'-di-*t*-butyl-, monopotassium salt, PC 64, 768
ethylidene-, dimethyl ester, JA 83, 923
mercapto-, irradiated, P 38, 1600
methyl-, CN 39, 2267

Succinic acid-*O*,*O*'-d_2, irradiated, C (1962), 367*

β-Succinic acid, irradiated, P 32, 1536*

Sucrose,
irradiated, P 30, 697*; P 35, 2145*; P 37, 203*
deoxy-hepta-*O*-methyl-, CN 40, 2397
hepta-*O*-methyl-, CN 40, 2396
mono-*O*-tosyl-hepta-*O*-methyl-, CN 40, 2397

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pyrolysed, P 39, 934*
allylpentafluoro-, FS 59, 625
bis(pentafluoro)-, peroxide, C (1962), 3080
bis(perfluoroisopropyl)-, monoxide, IC 1, 760
bromopentafluoro-, IC 1, 217
4-chlorobutylpentafluoro-, FS 59, 627
2-chloroethylpentafluoro-, FS 59, 627
chloropentafluoro-, C (1961), 4739; IC 1, 217
2-chloropropylpentafluoro-, FS 59, 626
difluorobis(perfluoroisopropyl)-, IC 1, 759
difluorotrifluoromethylperfluoroisopropyl-, IC 1, 760
ethoxyperfluoroisopropyl-, monoxide, IC 1, 761
fluoroperfluoroisopropyl-, IC 1, 760
pentafluoro-,
fluorosulfite, IC 1, 217
fluorosulfonate, C (1961), 4739
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pentafluoroethylpentafluoro-, JA 84, 3668
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(+ poly[vinyl chloride], irradiated), PS 50, 354*
(+ Teflon, irradiated), PS 50, 353*

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(+ iron + benzene), irradiated, O 11, 42*

Sulfur phenoxide, pentafluoro-, C (1961), 4739

Sulfur tetrafluoride, JA 81, 1086; P 28, 994

Sumikathene, PS 50, 355*

Suprasil, irradiated, JA 85, 3732*

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irradiated, SC 17, 1300*

DL-Tartaric acid, irradiated, P 36, 1144*

D-Tartaric acid, HB 317

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Tecostidine, F[5]30, 2901

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Teeth, irradiated, NT 200, 701*

Teflon, PS 50, 352*; PY 31, 1850
(+ carbon monoxide), irradiated, P 30, 402*
(+ nitric oxide), irradiated, P 30, 402*
(+ oxygen), irradiated, P 30, 401*
irradiated, P 30, 400*
(+ sulfur dioxide), PS 50, 353*

Teflon-100, PS 56, S 16

Tellurium hexafluoride, JA 81, 1085

Tendon, P 36, 3299

Terebic acid isopropyl ester, OR 25, 1668

Terephthalaldehyde, P 35, 762*; P 38, 2000*

Terephthalaldehyde-2,5-d_2, P 38, 2001*

Terephthalic acid dimethyl ester, HB 227; HB 608

Terephthalonitrile, JA 85, 686*

Terephthalonitrile-C^{13}, JA 85, 686*

Terphenyl, JA 80, 4554*

m-Terphenyl, AK 15, 538

o-Terphenyl, AK 15, 541

Testosterone, JA 80, 5124
  1-dehydro-4-methyl-, H 43, 246
  dihydro-, acetate, V 353
  17α-methyl-, JA 80, 5124

Tetraborane, JA 81, 6165; P 35, 1532

Tetraborane-d_{10}, P 35, 1532

Tetraborane-4-B^{11}, JA 84, 3974

Tetraborane-per-B^{11}, JA 84, 3974

Tetraborane-8 carbonyl, IC 2, 1145
  (+ ethylene), IC 2, 1143

Tetrabutylammonium bromide, irradiated, P 32, 955*

Tetrabutylammonium iodide, irradiated, P 32, 955*

Tetrabutyl titanate, HB 150

Tetracene, JA 80, 4553*; P 37, 369*
  (+ antimony pentachloride), J 34, 894*

Tetracycline, 7-chloro-, hydrochloride, SC 17, 2568*

2,4,6,8,10,12-Tetradecahexaenoic acid, P 37, 364*

Tetradecyl, O 6, 360*

Tetraethylammonium bromide, P 38, 1260

Tetraethylammonium iodide, P 38, 2318

Tetraethylene glycol dimethyl ether, J 32, 655; J 33, 1611

Tetragermane, C (1962), 2810

Tetraglycinate, JA 84, 4653

Tetraglycine, JA 81, 2871

Tetraisobutylene, AC 35, 1367

Tetralin, CA 45, 165
  acetyl-1,1,3,4,4,6-hexamethyl-, OR 28, 2250
  1,1,3,4,4,6-hexamethyl-, OR 28, 2250

6-Tetralol
  (+ acetic acid thallium salt + boron trifluoride), N 662, 57*

Tetramethylammonium bromide, M 2, 542
  irradiated, PC 67, 924*

Tetramethylammonium chloride, M 2, 542
  (+ chromyl chloride), IN 25, 938*
  irradiated, P 38, 594*

Tetramethylammonium iodide, irradiated, PC 67, 924*

Tetramethylammonium triborohydride, JA 83, 2670

Tetramethylene oxide, H 41, 37

Tetrandrine, C (1961), 1899

Tetraphenylpyrryl, P 36, 541*

Tetraphosphorus thiotrinitride nonachloride, ZC 320, 69

Tetrapropylammonium chloride, irradiated, NT 198, 578*

Tetrasulfur tetranitride, FS 58, 1293*

1,5,7,11-Tetrathiaspiro[5.5] undecane, OR 27, 4069

Tetratriacontane, irradiated, RL A262, 210*

Tetrazene, tetramethyl-
  (+ aluminum, trimethyl-), CN 40, 2186

s-Tetrazino(1,2-a)-*s*-tetrazine, octahydro-, HB 655

2-Tetrazoline-5-thione, ZA 181, 448

Thallium,
  diethyl-, C (1962), 850
  diethyltrimethyl-, CA 44, 513; CP 59, 683
  ethyltrimethyl-, CA 44, 513; CP 59, 683

trimethyl-, CA 44, 513; CP 59, 683
tri(methylvinyl)-, C (1963), 5537
triphenyl-, C (1963), 5537

Thallium (II) bromide, P 29, 629

Thallium (II) chloride, P 29, 629

Thallium (I) ethoxide, FD 34, 152

Thebaine, F[5] 30, 592; F[5] 30, 2189
(+ acetylenedicarboxylic acid dimethyl ester), JA 85, 1638

2-Thenoyl chloride, AK 16, 528

3-Thenoyl chloride, AK 16, 528

2-Thenyl acetate,
3-nitro-, J 35, 1420
5-nitro-, J 35, 1420

2-Thenyl alcohol,
3-nitro-, J 35, 1420
5-nitro-, J 35, 1420

2-Thenyl cyanide, 5-(2′,4′,6′-trihydroxyphenyl)-, AK 18, 214

2-Thenyl thiocyanate, J 33, 1465

Thiacyclobutane, HB 413

Thiacyclohexane, HB 415

Thiacyclopentane, HB 414

Thianthrene, C (1962), 4964*; J 35, 1138*; JA 84, 4802*
(+ antimony pentachloride), J 35, 1138*
cis-5,10-dioxide, P 39, 1354*
trans-5,10-dioxide, P 39, 1354*
disulfoxide, J 35, 1138*
5,10-tetroxide, JA 85, 1822*; P 39, 1354*
2,7-dichloro-, P 38, 570*
2,7-dimethyl-, P 38, 570*
5,10-tetroxide, JA 85, 1822*

Thianthrenium pentachloroantimonate, C (1962), 4964*

Thianthrenium perchlorate, C (1962), 4964*

2-Thiapropane, 1,3-diphenyl-, HB 695

Thiatriazole, 5-amino-, ZA 181, 448

Thiatriazoline, 5-imino-, ZA 181, 448

Thiaxanthone, JA 85, 1822*
5-dioxide, JA 85, 1822*

Thiazole, CN 38, 1238
2-amino-, SC 17, 2519
dimer, SC 17, 2520
2,4-dimethyl-, CN 38, 1238; V 108
2-methyl-, CN 38, 1238
4-methyl-, CN 38, 1238

Thiazolidine-4-carboxylic acid, 2-imino-3-benzoyl-, OR 27, 3120

Thiazoline-4-carboxylic acid, 2-amino-, OR 27, 3120

2(3H)-Thiazolone, SC 17, 2480
dimer, SC 17, 2483
4-methyl-, SC 17, 2481
dimer, SC 17, 2483

Thieno[3,2-b] pyrrole, *N*-benzyl-, P 35, 840; PC 65, 188

Thieno[3,2-b] thiophene, SC 17, 280

Thioacetamide, CN 41, 2644

Thioacetanilide, CN 41, 2644

Thioacetic acid *S*-methyl ester, JA 85, 2576

Thioacetyl fluoride,
chlorofluoro-, JA 85, 750
difluoro-, JA 85, 750

Thiobenzamide, *N*,*N*-dimethyl-, SC 16, 1624

Thiocarbamic acid azide, ZA 181, 448

Thiocyanate
(+ copper + benzidine), CP 60, 370*
(+ copper + 2,4,6-collidine), ZP 221, 200*
(+ copper + pyridine), ZP 221, 200*
(+ copper + *o*-toluidine), CP 60, 370*

Thiocyanogen
(+ pyrrole), AK 18, 152

Thiodiglycolic acid, irradiated, P 34, 1286*

Thioformamide,
N,*N*-dimethyl-, N 669, 70
N-methyl-*N*-benzyl-, N 699, 71

Thioindigo, P 37, 136*; P 37, 452*
5,5′-dibromo-, P 37, 137*
5,5′-dichloro-7,7′-dimethyl-, P 37, 137*
6,6′-diethoxy-, P 37, 137*

Thiolacetic acid, V 7

3-Thiolen-2-one, AK 15, 500

3-methoxy-, AK 21, 242
3-methyl-, AK 21, 243
4-methyl-, AK 21, 244
5-methyl-, AK 15, 504

4-Thiolen-2-one, 5-methyl-, AK 15, 503

1-Thioniabicyclo[3.3.0] octane,
5-acetoxy-, perchlorate, JA 84, 3709
5-hydroxy-, perchlorate, JA 84, 3709
5-methoxy-, perchlorate, JA 84, 3709

Thionine, irradiated, C (1962), 2056*

Thiophene, AK 13, 288; AK 15, 49; CN 37, 2095; HB 418; P 38, 480; V 52
2-acetyl-, J 32, 160
2-acetyl-5-methyl-, V 164
2-amino-, AK 16, 529
3-amino-, AK 16, 529
2-bromo-, AK 16, 519; FD 34, 133; J 32, 159
3-bromo-, FD 34, 135
2-bromo-5-chloro-, P 37, 2062; ZA 164, 131
2-*t*-butoxy-, AK 16, 521
3-*t*-butoxy-, AK 16, 521
2-chloro-, AK 13, 290
3-cyano-, AK 16, 530
2,3-dibromo-, CA 44, 512; CH 17, 179; CR 60, 377
2,5-dimethoxycarbonyl-3-(β-isopropyl-β-methoxycarbonylvinyl)-, J 35, 811
2,3-dimethyl-, AK 16, 582
2,5-dimethyl-, HB 421
2,3-dimethyl-4,5-dibromo-, SC 15, 1201
2-ethoxy-, AK 15, 58
2-iodo-, J 32, 160; V 49
3-iodo-, AK 16, 521
2-methoxy-, AK 13, 283
3-methoxy-, AK 13, 282; AK 15, 58
2-methyl-, AK 16, 501; HB 419; HB 661; J 32, 159; V 103
3-methyl-, AK 13, 287; HB 420; HB 662; J 32, 159; P 31, 570
5-methyl-2-bromo-, AK 16, 566
5-methyl-2-methoxy-, AK 16, 566
2-methyl-3-nitro-, AK 16, 567
5-methyl-2-nitro-, AK 16, 567
2-methylthio-, AK 16, 520
3-methylthio-, AK 16, 520
2-nitro-, AK 13, 283; FS 55, 519; J 32, 160
3-nitro-, AK 16, 523
2-propionyl-, V 163
tetrahydro-, TT 18, 808
tetrahydro-, V 80
2-thiocyano-, AK 16, 522
3-thiocyano-, AK 16, 522

Thiophene-2-d_1, AK 15, 56
3-bromo-, AK 16, 505
3-methyl-, AK 16, 506

Thiophene-3-d_1, AK 15, 56
2-methyl-, AK 16, 506
2-methylthio-, AK 16, 504

Thiophene-4-d_1,
3-bromo-, AK 16, 505
3-methyl-, AK 16, 506
2-methylthio-, AK 16, 504
3-methylthio-, AK 16, 504

Thiophene-5-d_1,
2-bromo-, AK 16, 505
3-bromo-, AK 16, 505
2-methyl-, AK 16, 506
2-methylthio-, AK 16, 504

Thiophene-2,3-d_2, AK 15, 48

Thiophene-2,4-d_2, AK 15, 48

Thiophene-2-aldehyde, J 32, 160; V 94
3-bromo-, SC 13, 1688
ethylene acetal, SC 17, 2134
3-methyl-, AK 17, 170
5-methyl-, AK 16, 568
4-nitro-, AK 16, 569

Thiophene-3-aldehyde, SC 13, 1689
2-bromo-, AK 16, 569
4-bromo-, AK 16, 565
4-methyl-, AK 16, 571
2-methylthio-, AK 16, 570
4-methylthio-, AK 16, 571

Thiophene-5-aldehyde, 3-methyl-, AK 17, 170

Thiophene-2-aldoxime, SC 13, 1690

Thiophene-2-carboxaldehyde, AK 13, 286

Thiophene-2-carboxylic acid, FD 34, 134; FS 55, 519
3-*t*-butoxy-, AK 16, 364
3-formyl-, AK 20, 410; AK 21, 272
methyl ester, AK 20, 411
4-formyl-, AK 21, 272
5-formyl-, AK 21, 272
3-methoxy-, AK 13, 272
3-methylthio-, AK 13, 272

Thiophene-3-carboxylic acid,
2-formyl-, AK 21, 272
4-formyl-, AK 21, 272
5-formyl-, AK 21, 272

Thiophene-5-carboxylic acid,
2,3-dimethyl-4-bromo-, methyl ester, SC 15, 1201
3-methoxy-, AK 13, 272

Thiophene-2-sulfonyl chloride, AK 16, 528; J 32, 160
3-methyl-, J 34, 1600

Thiophene-3-sulfonyl chloride, 2-methyl-, J 34, 1600

Thiophene-4-sulfonyl chloride,
2-methyl-, J 34, 1600
3-methyl-, J 34, 1600

Thiophene-5-sulfonyl chloride,
2-methyl-, J 34, 1600
3-methyl-, J 34, 1600

2-Thiophenethiol, AK 16, 529
4-bromo-, AK 16, 572
3-methyl-, AK 16, 573
5-methyl-, AK 15, 506
5-methylthio-, AK 16, 573

3-Thiophenethiol, AK 16, 530
4-bromo-, AK 16, 574
2-methyl-, AK 16, 576
4-methyl-, AK 16, 575
2-methylthio-, AK 16, 575
4-methylthio-, AK 16, 575

4-Thiophenethiol, 2-methylthio-, AK 16, 574

Thiophenol, 4-methyl-, V 168

Thiophosphonochloridothioic acid, methyl-,
S-methyl ester, IC 2, 1154

Thiophosphonous acid, bis(dimethylamino)-,
t-butyl ester, F[5]30, 2155

Thiophosphorus tri-*N*-methylimide, IC 2, 378

Thiopyran, tetrahydro-, V 118

2-Thiouracil, AK 16, 466; JA 84, 1043

Thiourea, FS 57, 895; FS 57, 1236
N-methyl-, CN 41, 2646
(+)-1-(2-methylbutyl)-, SC 16, 939

L-Threitol,
2,4-di-*O*-acetyl-1,3-*O*-benzylidene-,
C (1961), 5008
1,3;2,4-di-*O*-methylene-, CN 41, 394

L-Threitol-1,1,4,4-d_4, 1,3;2,4-di-*O*-
methylene-, CN 41, 394

L-Threonine,
irradiated, PC 62, 796*
N-(2,4-dinitrophenyl)-, J 35, 1659

Thujopsene, SC 15, 594
dihydro-, SC 15, 597

Thymidine, CN 39, 116; JA 83, 2910; JA 84, 4465
irradiated, NT 200, 377*
α-anomer, CN 39, 117

Thymine, B 235, 1494; JA 83, 2910
(+ anthraquinone, diamino-), PC 67, 2638*
(+ benzoquinone), PC 67, 2638*
irradiated, NT 200, 377*
ribosyl-, B 235, 1494

Thymol, V 270
4-methoxy-, OR 23, 1200

Thymoquinone, OR 23, 49; OR 23, 1200
3-bromo-, OR 23, 1200
3-libocedroxy-, OR 23, 1200

Thymus deoxyribonucleic acid, irradiated,
NT 200, 377*

Tiglaldehyde, AK 17, 14

Tiglic acid, CN 38, 551; J 33, 428

Tin
(+ phthalocyanine), P 35, 163*

Tin bromidetriiodide, JA 83, 329

Tin dibromidediiodide, JA 83, 329

Tin tetrabromide, JA 83, 329

Tin tetraiodide, JA 83, 329

Tin tribromideiodide, JA 83, 329

Titanium, NT 197, 247*
(+ acetone, acetyl-), P 38, 389*
(+ fluoride), IC 2, 1003
(+ hydrogen peroxide + allyl alcohol),
C (1963), 3121*
(+ hydrogen peroxide + 1-butanol), C(1963), 3121*
(+ hydrogen peroxide + ethanol), C (1963), 3121*
(+ hydrogen peroxide + methanol), C (1963), 3121*
(+ hydrogen peroxide + 1,3-propanediol),
C (1963), 3121*
(+ hydrogen peroxide + 2-propanol),
C (1963), 3121*
(+ hydrogen peroxide + propargyl alcohol),
C (1963), 3121*
dichlorobis(cyclopentadienyl)-
(+ aluminum, chlorodiethyl-), JA 82, 4110*
(+ aluminum, chlorodimethyl-), R 81, 228*
(+ aluminum, dichloroethyl-), JA 82, 4110*
(+ aluminum, triethyl-), JA 82, 4110*
(+ aluminum, trimethyl-, R 81, 228*
dicyclopentadienyl-, dichloride
(+ aluminum, diethyl-), FS 59, 1810*
(+ aluminum, triisobutyl-), FS 59, 1812*

Titanium diboride, P 32, 288

Titanium dioxide-chromium, PY 31, 1567*

Titanium tetrachloride
(+ aluminum, dichloroethyl-), R 81, 75*

Titanium tetrafluoride
(+ dipropylammonium hexafluorotitanate), IC 2, 1003
(+ ethanol), JA 82, 1083

Tobacco smoke, SC 17, 1302*

α-Tocopherol, V 366

all-trans-ζ_1-Tocopherol, H 46, 2520

cis-trans-ζ_1-Tocopherol, H 46, 2520

Tolan, 4,4′-bis(diphenylmethylyl)-, J 36, 801*

Toluene, CH 14, 149; CN 38, 627; HB 71; JA 83, 1840; JA 85, 1304; P 33, 629; SA 14, 26; SA 14, 36; V 157
irradiated, P 37, 2404*
2-amino-5-nitro-, FS 55, 717
4-amino-2-nitro-, FS 55, 709
4-chloro-, IS 54A, 6
2-chloro-6-nitro-, IS 54A, 336
2,6-dinitro-, FS 55, 708
2-fluoro-, FS 54, 1448
3-fluoro-, FS 54, 1448
4-fluoro-, CN 37, 883; CN 37, 2079; FS 54, 1448
2-iodo-, P 38, 1407
3-iodo-, P 38, 1407
4-iodo-, P 38, 1407
2-nitro-, P 38, 1433
3-nitro-, P 38, 1433
4-nitro-, JA 83, 1853*; P 38, 1433
(+ t-butanol potassium salt), JA 84, 4153*
pentachloro-, HB 672
4-trifluoromethyl-, V 190

Toluene-α-C^{13}, P 33, 629

p-Toluenesulfonamide,
N,N-dimethyl-, CN 41, 2649
N-methyl-, CN 41, 2648

p-Toluenesulfonic acid sodium salt, HB 369

α-Toluenethiol, HB 410

p-Toluenethiosulfonic acid *p*-tolyl ester, AU 16, 653

m-Toluic acid, HB 189
methyl ester, HB 223
α-*m*-xylyl ester, HB 229

o-Toluic acid, HB 186
methyl ester, HB 222

p-Toluic acid
methyl ester, HB 224
α-*p*-xylyl ester, HB 366

m-Toluidine, P 38, 1416
N,N-dimethyl-, P 38, 1423

o-Toluidine, P 38, 1416
(+ copper + thiocyanate), CP 60, 370*
N-acetyl-*N*-methyl-, V 264
N,N-dimethyl-, P 38, 1422

p-Toluidine, P 38, 1416
N,N-dimethyl-, P 38, 1423

p-Tolusemiquinone, P 30, 1011*; P 35, 1743*

o-Toluyldiphenylmethyl, JA 84, 1133*

p-Tolylamine, J 33, 1129

p-Tolyldiphenylmethyl, CN 37, 1406

Tony Blue, P 36, 2783*

Tony Blue-d, P 36, 2784*

Triacanthine, JA 84, 2149
dihydro-, JA 84, 2149

Triacetin, C (1963), 133; V 242

Triacetoneamine *N*-oxide, NT 196, 473*

Triamcinolone
21-acetate 16α,17α-acetonide, JA 82, 4620
16α,17α-acetonide, JA 82, 4620
16α,21-diacetate, JA 82, 4620

Tri-*p*-anisylmethyl, CN 37, 1406

1,3,5-Triazine, 1,3,5-cyanomethylhexahydro-, HB 657

1,2,3-Triazole, 1-benzoylamino-4,5-dimethyl-, enol benzoate, TT 19, 1698

Triborane, JA 81, 4499

Tributyl phosphate, AC 31, 450

Tri-2-butyl phosphate, NT 190, 903

Tributyrin, C (1963), 134

Tricaprin, C (1963), 134

Tri-*p*-chlorotriphenylmethyl, JA 84, 1133*

cis, trans, cis-Tricyclo[5.3.0.0^{2,6}] deca-4,9-diene-3,8-dione, JA 84, 2346

Tricyclo[2.1.1.0^{5,6}] hexane-5-*t*-butylcarboxamide, JA 85, 1880

exo-Tricyclo[3.2.1.0^{2,4}]octane, 3,3-dichloro-, OR 28, 2206

Tricyclo[3.3.0.0^{2,6}]octane, JA 85, 819

Tricyclo[6.3.0.0^{3,7}]undecane, 2-methyl-1-acetyl-6-hydroxy-, F[5]30, 264

Tridecyl, O 6, 360*

Triethylamine, ZA 170, 184
(+ aluminum, trimethyl-), FS 58, 645
(+ borane, triethyl-), J 35, 1318
(+ copper (II) chloride), IC 2, 1213*
(+ decaborane), C (1961), 2199

Triethylenediamine
(+ ethylene, tetracyano-), JA 85, 2560*

Triethylene glycol, HB 136
dimethyl ether, J 32, 655; J 33, 1611

Triethylmethylthiomethylammonium iodide, P 38, 1261

Triethyl phosphite
(+ phosphorus trichloride), ZC 307, 115

2,2,2-Trifluoroethyl pentafluorosulfur oxide, IC 2, 422

Trifluoromethyl 1,2-dichloroethyl sulfide, JA 84, 3150

Trifluoromethyl 2,2-dichloroethyl sulfide, JA 84, 3150

Trifluoromethyl 1,2-dichlorotrifluoromethyl sulfide, JA 84, 3150

Tri(2-fluorothiobenzaldehyde), OR 28, 1045

Tri(3-fluorothiobenzaldehyde), OR 28, 1046

Tri(4-fluorothiobenzaldehyde), OR 28, 1047

Trigermane, C (1962), 2810

Triglycine, JA 81, 2871
sulfate, SD 20, 188*

Tri-iron dodecacarbonyl
(+ 1,3-cyclohexadiene, octafluoro-), C (1961), 2740
(+ 1,4-cyclohexadiene, octafluoro-), C (1961), 2740

Triisobutyl borate, C (1960), 1041

Triisobutylene, AC 35, 1365

Triisobutylidenediamine, OR 26, 1822

Trimethine, 1,3-bis(dimethylamino)-, perchlorate, ZP 224, 67

Tri-*p*-methoxytriphenylmethyl, JA 84, 1133*

Trimethylamine
(+ aluminum borohydride), IC 2, 517
(+ borane, triethyl-), IC 2, 1149; J 35, 1318
(+ phosphine, trimethyl- + triethylborane), IC 2, 1149

Trimethylammonium-d, JA 82, 6313

Trimethylene dimercaptan, V 47

Trimethylene oxide, CH 13, 21; H 41, 37; V 33

Trimethylene trithiocarbonate, OR 27, 4069

Trimethyl-(1-isopropyl-2,2-dimethylpropyl)-ammonium nitrate, C (1960), 4078

Trimethyl phosphite
(+ biacetyl), JA 85, 3256; JA 85, 3466

Trimethyl-(1,2,2-trimethylpropyl)-ammonium nitrate, C (1960), 4078

Trinactin, H 45, 621

1,3,5-Trioxane, HB 650
1,3,5-tris(trichloromethyl)-, CA 44, 516
2,4,6-tris(trichloromethyl)-, JA 80, 6103

2,4,8-Trioxa-6-phosphaadamantane, 1,3,5,7-tetramethyl-, JA 83, 3280

Triphenylamine
(+ benzene, 1,3,5-trinitro-), JA 85, 2560*
(+ iodine), JA 85, 2558*

Triphenylcarbinol, PC 64, 1556

Triphenylcarbonium, P 34, 1460

Triphenylene, JA 80, 4554*; P 32, 309*; P 36, 2444; SA 18, 785*

Triphenylmethyl, CN 37, 1405; P 33, 638*; ZP 224, 208*

Triphosphonitrile, tribromotriphenyl-, IC 2, 659

Triphosphonitrilic 1,1-difluoride 3,3,5,5-tetrachloride, C (1961), 1384; C (1961), 1770

Triphosphopyridine nucleotide
(+ Old Yellow Enzyme), AK 19, 101*; S 127, 1178*; SC 14, 767*

Triphosphoronitrile,
bis(monomethylaminodiaminodichloro)-, ZC 302, 111
diphenylbis(*N*-dimethylaminodiamino)-, ZC 304, 132
diphenyltetrachloro-, ZC 304, 129
tetrabis(dimethylaminodiamino)-, ZC 302, 111
tris(*N*-dimethylaminotrichloro)-, ZC 302, 105

Triphosphorus thiodinitride heptachloride, ZC 320, 67

Tris(4-chlorophenylaminium) perchlorate, P 33, 722

Tris(4-nitrophenylmethide)
(+ tris[4-nitrophenylmethyl]), JA 84, 4270*

Tris(4-nitrophenylmethyl), JA 84, 4270*; P 35, 1146*
(+ tris[4-nitrophenylmethide]), JA 84, 4270*

Trispiro[5,2,2,5,2,2] heneicosane, R 82, 604

Tristannane, octamethyl-, IC 2, 737

Tristearin, C (1960), 439; V 368

1,3,5-Trithiacyclohexane, HB 663
2,4,6-trimethyl-, HB 664; OR 27, 136
2,4,6-triphenyl-, HB 665; OR 27, 137

Trithioacetaldehyde, OR 27, 136

Trithiobenzaldehyde, OR 27, 137

Tropane methiodide, JA 81, 5459

Tropine methiodide, JA 81, 5459

Tropolone,
3,7-di-(7-tropyl)-, J 36, 1471
3-(7-tropyl)-, J 36, 1471
5-(7-tropyl)-, J 36, 1471

Tropone
(+ malononitrile), J 36, 38
4-isopropyl-2-mercapto-, J 34, 617
6-isopropyl-2-mercapto-, J 34, 617
2-mercapto-, J 34, 617
2-methylthio-, J 34, 617
2-phenyl-
(+ malononitrile), J 36, 41
2-phenyl-2,7-dihydro-, R 81, 593
2-phenyl-6,7-dihydro-, R 81, 593

Troponeimine,
N,*N'*-bis(*p*-1,3-butadienylphenyl) amino-
(+ nickel), FD 34, 82
N,*N'*-bis(ethylamino)-
(+ nickel), P 37, 353
N,*N'*-bis(methylamino)-
(+ nickel), P 37, 349
N,*N'*-bis(2-naphthylamino)-
(+ nickel), P 37, 355
N,*N'*-bis(3-pentafluorosulfophenyl) amino-
(+ nickel), JA 85, 2692
N,*N'*-bis(4-phenylaminophenyl) amino-
(+ nickel), P 39, 3515
N,*N'*-bis(6-quinolyl) amino-
(+ nickel), FD 34, 80
N,*N'*-bis(4-β-styrylphenyl) amino-
(+ nickel), P 39, 3515
N,*N'*-bis(4-styrylphenylamino)-
(+ nickel), P 37, 357
N,*N'*-bis(3-trifluoromethoxyphenyl) amino-
(+ nickel), JA 85, 2692
N,*N'*-bis(4-vinylphenyl) amino-
(+ nickel), P 39, 3514
γ-bromo-*N*,*N'*-dimethylamino-
(+ nickel), P 39, 3514
N,*N'*-diethyl-γ-(4-pentafluorosulfophenylazo) amino-
(+ nickel), JA 85, 2692
N,*N'*-di-(1-naphthyl)-amino-
(+ nickel), JA 85, 404
N,*N'*-di-(3-phenanthryl) amino-
(+ nickel), P 39, 3516
N,*N'*-di-(*p*-tolyl)-amino-, JA 85, 398
(+ nickel), JA 85, 398
γ-phenylazo-*N*,*N'*-diphenylamino-, JA 84, 4103

Tryptamine, JA 82, 2186
N_b-methyl-, JA 82, 2186

Tryptophan, irradiated, NT 197, 1106*; PC 62, 795*; SC 15, 796*

Tryptophan-t, ZP 223, 100*

DL-Tryptophan, acetyl-, irradiated, PC 62, 786*

L-Tryptophan, *N*-(2,4-dinitrophenyl)-, J 35, 1659

Tuberostemonine, CN 40, 456
bisdehydro-, CN 40, 456

Tuboflavin, H 46, 502

Tung oil, AC 34, 1138; CN 37, 780

Tungsten hexacarbonyl
(+ phosphine, tris[dimethylamino]-), IC 2, 941

Tungsten hydride, di-(π-cyclopentadienyl)-, C (1961), 4855

Tungsten pentacarbonyl, acrylonitrilo-, IC 2, 1027

Tungsten tricarbonyl
(+ cycloheptatriene), C (1961), 2039
π-cyclopentadienyl-, C (1962), 3657

(+ molybdenum tricarbonyl, π-cyclopentadienyl-), C (1962), 3657
tris (acrylonitrilo)-, IC 2, 1027

Tungsten trioxide
dihydrate, G 73, 801
1.06-hydrate, ZC 312, 48
2.03-hydrate, ZC 312, 48

Turpentine, ZA 164, 133

γ-Tyrosinase, B 238, 1706*
irradiated, PC 62, 795*
3,5-diiodo-, irradiated, PC 62, 795*

L-Tyrosine, glycyl-, irradiated, PC 62, 786*

U

Ubiquinone, H 42, 1281

Ultracurin A chloride, N 664, 196

Ultramarine, P 30, 766*

Ultraphosphate, CH 13, 22

Undecane, irradiated, P 30, 697*

Undecyl, O 6, 360*

Uracil, JA 83, 2910
5-bromo-, JA 83, 2910
5-chloro-6-methyl-, JA 84, 1044
1-(2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 113
5-fluoro-, JA 84, 1043
5-iodo-, JA 84, 1043
1-methyl-, B 235, 1495
6-methyl-, B 235, 1494; JA 84, 1043
5-nitro-, JA 84, 1043
5-nitro-6-methyl-, JA 84, 1044
1-ribosyl-, B 235, 1495

Uracil-5-carboxylic acid, JA 84, 1043

Uranium, RL A254, 273*

Uranium hexafluoride, P 38, 2475

Uranium peroxide dihydrate, P 37, 2320

β-Uranium trioxide
dihydrate, P 36, 1696
monohydrate, P 36, 1701

Uranyl hydroxide monohydrate, ZA 315, 307

Urea, FS 57, 1238
(+ hexacosane), NT 183, 1183
irradiated, P 35, 2193*
oxalate, irradiated, P 35, 363*
ethyl-, irradiated, P 35, 2194*
methyl-, irradiated, P 35, 2193*

Urethane, cyclobutyl-, JA 82, 1968

Uridine, B 235, 1495; JA 82, 226; JA 82, 230; JA 83, 2910; JA 84, 4465
2′,3′-cyclic monophosphate, JA 84, 63
deoxy-, JA 83, 2920
5-methyl-, B 235, 1494

Uronic acid,
(bornyl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975
(3,17β-dimethoxy-1,3,5(10)-estratrien-16α-yl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975

Uroporphyrin-1, JA 83, 3745

Ursolic acid
methyl ester acetate, OR 27, 4513
3β-acetoxy-12-keto-, methyl ester, TT 18, 793

Usnic acid, SC 16, 589
5-*O*-acetyl-, SC 16, 589
7-*O*-acetyl-, SC 16, 589
5,7-*O*,*O*-diacetyl-, SC 16, 589

V

Valeramide, 4-methyl-, V 142

Valeric acid, HB 118
1-amino-
(+ nickel), FD 34, 91

γ-Valerolactone, HB 184

(+ molybdenum tricarbonyl, π-cyclopentadienyl-), C (1962), 3657
tris (acrylonitrilo)-, IC 2, 1027

Tungsten trioxide
dihydrate, G 73, 801
1.06-hydrate, ZC 312, 48
2.03-hydrate, ZC 312, 48

Turpentine, ZA 164, 133

γ-Tyrosinase, B 238, 1706*
irradiated, PC 62, 795*
3,5-diiodo-, irradiated, PC 62, 795*

L-Tyrosine, glycyl-, irradiated, PC 62, 786*

U

Ubiquinone, H 42, 1281

Ultracurin A chloride, N 664, 196

Ultramarine, P 30, 766*

Ultraphosphate, CH 13, 22

Undecane, irradiated, P 30, 697*

Undecyl, O 6, 360*

Uracil, JA 83, 2910
5-bromo-, JA 83, 2910
5-chloro-6-methyl-, JA 84, 1044
1-(2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 113
5-fluoro-, JA 84, 1043
5-iodo-, JA 84, 1043
1-methyl-, B 235, 1495
6-methyl-, B 235, 1494; JA 84, 1043
5-nitro-, JA 84, 1043
5-nitro-6-methyl-, JA 84, 1044
1-ribosyl-, B 235, 1495

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Uranium, RL A254, 273*

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Uranium peroxide dihydrate, P 37, 2320

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dihydrate, P 36, 1696
monohydrate, P 36, 1701

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Urea, FS 57, 1238
(+ hexacosane), NT 183, 1183
irradiated, P 35, 2193*
oxalate, irradiated, P 35, 363*
ethyl-, irradiated, P 35, 2194*
methyl-, irradiated, P 35, 2193*

Urethane, cyclobutyl-, JA 82, 1968

Uridine, B 235, 1495; JA 82, 226; JA 82, 230; JA 83, 2910; JA 84, 4465
2′,3′-cyclic monophosphate, JA 84, 63
deoxy-, JA 83, 2920
5-methyl-, B 235, 1494

Uronic acid,
(bornyl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975
(3,17β-dimethoxy-1,3,5(10)-estratrien-16α-yl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975

Uroporphyrin-1, JA 83, 3745

Ursolic acid
methyl ester acetate, OR 27, 4513
3β-acetoxy-12-keto-, methyl ester, TT 18, 793

Usnic acid, SC 16, 589
5-*O*-acetyl-, SC 16, 589
7-*O*-acetyl-, SC 16, 589
5,7-*O*,*O*-diacetyl-, SC 16, 589

V

Valeramide, 4-methyl-, V 142

Valeric acid, HB 118
1-amino-
(+ nickel), FD 34, 91

γ-Valerolactone, HB 184

(+ molybdenum tricarbonyl, π-cyclopentadienyl-), C (1962), 3657
tris (acrylonitrilo)-, IC 2, 1027

Tungsten trioxide
dihydrate, G 73, 801
1.06-hydrate, ZC 312, 48
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irradiated, PC 62, 795*
3,5-diiodo-, irradiated, PC 62, 795*

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Ubiquinone, H 42, 1281

Ultracurin A chloride, N 664, 196

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Ultraphosphate, CH 13, 22

Undecane, irradiated, P 30, 697*

Undecyl, O 6, 360*

Uracil, JA 83, 2910
5-bromo-, JA 83, 2910
5-chloro-6-methyl-, JA 84, 1044
1-(2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 112
1-(2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 112
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-fluoro-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-α-D-ribofuranosyl)-5-methyl-, CN 39, 113
1-(di-*O*-*p*-toluyl-2-deoxy-β-D-ribofuranosyl)-5-methyl-, CN 39, 113
5-fluoro-, JA 84, 1043
5-iodo-, JA 84, 1043
1-methyl-, B 235, 1495
6-methyl-, B 235, 1494; JA 84, 1043
5-nitro-, JA 84, 1043
5-nitro-6-methyl-, JA 84, 1044
1-ribosyl-, B 235, 1495

Uracil-5-carboxylic acid, JA 84, 1043

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dihydrate, P 36, 1696
monohydrate, P 36, 1701

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Urea, FS 57, 1238
(+ hexacosane), NT 183, 1183
irradiated, P 35, 2193*
oxalate, irradiated, P 35, 363*
ethyl-, irradiated, P 35, 2194*
methyl-, irradiated, P 35, 2193*

Urethane, cyclobutyl-, JA 82, 1968

Uridine, B 235, 1495; JA 82, 226; JA 82, 230; JA 83, 2910; JA 84, 4465
2′,3′-cyclic monophosphate, JA 84, 63
deoxy-, JA 83, 2920
5-methyl-, B 235, 1494

Uronic acid,
(bornyl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975
(3,17β-dimethoxy-1,3,5(10)-estratrien-16α-yl-2′,3′,4′-tri-*O*-acetyl-β-D-glucopyranosid)-, methyl ester, JA 84, 2975

Uroporphyrin-1, JA 83, 3745

Ursolic acid
methyl ester acetate, OR 27, 4513
3β-acetoxy-12-keto-, methyl ester, TT 18, 793

Usnic acid, SC 16, 589
5-*O*-acetyl-, SC 16, 589
7-*O*-acetyl-, SC 16, 589
5,7-*O*,*O*-diacetyl-, SC 16, 589

V

Valeramide, 4-methyl-, V 142

Valeric acid, HB 118
1-amino-
(+ nickel), FD 34, 91

γ-Valerolactone, HB 184

DL-Valine,
irradiated, PC 62, 791*
N-acetyl-, PC 63, 303
irradiated, PC 62, 787*
DL-alanyl-, irradiated, PC 62, 785*
glycyl-, irradiated, PC 62, 785*

D-Valine, irradiated, PC 62, 791*

L-Valine,
irradiated, PC 62, 791*
N-(2,4-dinitrophenyl)-, J 35, 1659

Vanadium, AC 33, 503*; IN 9, 172; IN 9, 176*
(+ acetone, acetyl-), IC 2, 257*; P 30, 592*; P 36, 3226*
(+ acetone, acetyl- + pyridine), IC 2, 257*
(+ etioporphyrin I), AC 33, 502*
(+ porphyrin), CC 27, 1439*
bis(cyclopentadienyl)-, P 30, 443*
oxo-, JA 81, 1852*

Vanadium pentoxide, J 34, 1196*; P 35, 754; P 38, 2022*

Vanadium pentoxide-anthracene, J 36, 229*

Vanadium pentoxide-copper, P 38, 2021*

Vanadyl, P 33, 1107*

Vanadyl etioporphyrin I, P 29, 1188*

Vanadyl etioporphyrin II, P 34, 592*

Vanadyl oxalate, FS 59, 1516*

Vanillin, V 197

Veratrole, P 38, 485

Vernonia oil, CN 37, 779
acetylated, CN 37, 779

Verticillatine,
diacetyl-, OR 27, 2987
dihydro-, OR 27, 2987

Vindoline, CC 28, 1430; F[5]30, 1513

Vindorosine, CC 28, 1430

Vinyl bromide, CN 38, 2067; P 31, 1284

Vinyl chloride
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150

Vinyl-α-d$_1$ chloride, P 34, 2137

Vinyl-α,β-d$_2$ chloride, P 34, 2137

Vinyl chloride-vinylidene chloride copolymer, PS 61, S13

Vinyl fluoride, RL A263, 142

Vinylidene chloride-vinyl chloride copolymer, PS 61, S13

Vinylidene fluoride-hexafluoropropylene copolymer, JA 82, 2417

Vinyl methyl ether, trifluoro-
(+ methanethiol, trifluoro-), JA 83, 843

Vinyl sulfonic acid, P 36, 1955

Violamine R
(+ chloranil), PC 67, 2637*

Viologen,
benzyl-, P 39, 61*
ethyl-, P 39, 61*
methyl-, P 39, 60*
methyl-d$_3$-, P 39, 60*

Vitamin A acetate, C (1960), 2876

11,13-di-*cis*-Vitamin A alcohol, H 45, 557

all-trans-Vitamin A alcohol, H 45, 554

all-trans-Vitamin A$_2$ alcohol, H 45, 554

all-trans-Vitamin A aldehyde, H 45, 555

all-trans-Vitamin A$_2$ aldehyde, H 45, 555

Vitamin K$_1$, H 42, 1281

Vitamin K$_2$, H 42, 1280

Vomilenin, H 45, 613

Vulgarin, OR 27, 1856
desoxydihydro-, OR 27, 1856
dihydro-, OR 27, 1856

W

Water, AC 31, 450; CA 45, 164; CN 41, 719; CR 63, 87; F[5]27, 1879; G 73, 800; HB 122; JA 84, 4683; NT 183, 322*; P 36, 240*; P 39, 1350; SD 14, 48; ZA 170, 196
irradiated, CP 60, 726*; NT 193, 371*; P 32, 965*; P 32, 1250*; P 38, 1928*

Water-d$_1$, JA 84, 4683; P 37, 151
irradiated, CP 60, 727*

DL-Valine,
irradiated, PC 62, 791*
N-acetyl-, PC 63, 303
irradiated, PC 62, 787*
DL-alanyl-, irradiated, PC 62, 785*
glycyl-, irradiated, PC 62, 785*

D-Valine, irradiated, PC 62, 791*

L-Valine,
irradiated, PC 62, 791*
N-(2,4-dinitrophenyl)-, J 35, 1659

Vanadium, AC 33, 503*; IN 9, 172; IN 9, 176*
(+ acetone, acetyl-), IC 2, 257*; P 30, 592*; P 36, 3226*
(+ acetone, acetyl- + pyridine), IC 2, 257*
(+ etioporphyrin I), AC 33, 502*
(+ porphyrin), CC 27, 1439*
bis(cyclopentadienyl)-, P 30, 443*
oxo-, JA 81, 1852*

Vanadium pentoxide, J 34, 1196*; P 35, 754; P 38, 2022*

Vanadium pentoxide-anthracene, J 36, 229*

Vanadium pentoxide-copper, P 38, 2021*

Vanadyl, P 33, 1107*

Vanadyl etioporphyrin I, P 29, 1188*

Vanadyl etioporphyrin II, P 34, 592*

Vanadyl oxalate, FS 59, 1516*

Vanillin, V 197

Veratrole, P 38, 485

Vernonia oil, CN 37, 779
acetylated, CN 37, 779

Verticillatine,
diacetyl-, OR 27, 2987
dihydro-, OR 27, 2987

Vindoline, CC 28, 1430; F[5]30, 1513

Vindorosine, CC 28, 1430

Vinyl bromide, CN 38, 2067; P 31, 1284

Vinyl chloride
(+ methanesulfenyl chloride, trifluoro-), JA 84, 3150

Vinyl-α-d$_1$ chloride, P 34, 2137

Vinyl-α,β-d$_2$ chloride, P 34, 2137

Vinyl chloride-vinylidene chloride copolymer, PS 61, S13

Vinyl fluoride, RL A263, 142

Vinylidene chloride-vinyl chloride copolymer, PS 61, S13

Vinylidene fluoride-hexafluoropropylene copolymer, JA 82, 2417

Vinyl methyl ether, trifluoro-
(+ methanethiol, trifluoro-), JA 83, 843

Vinyl sulfonic acid, P 36, 1955

Violamine R
(+ chloranil), PC 67, 2637*

Viologen,
benzyl-, P 39, 61*
ethyl-, P 39, 61*
methyl-, P 39, 60*
methyl-d$_3$-, P 39, 60*

Vitamin A acetate, C (1960), 2876

11,13-di-*cis*-Vitamin A alcohol, H 45, 557

all-trans-Vitamin A alcohol, H 45, 554

all-trans-Vitamin A$_2$ alcohol, H 45, 554

all-trans-Vitamin A aldehyde, H 45, 555

all-trans-Vitamin A$_2$ aldehyde, H 45, 555

Vitamin K$_1$, H 42, 1281

Vitamin K$_2$, H 42, 1280

Vomilenin, H 45, 613

Vulgarin, OR 27, 1856
desoxydihydro-, OR 27, 1856
dihydro-, OR 27, 1856

W

Water, AC 31, 450; CA 45, 164; CN 41, 719; CR 63, 87; F[5]27, 1879; G 73, 800; HB 122; JA 84, 4683; NT 183, 322*; P 36, 240*; P 39, 1350; SD 14, 48; ZA 170, 196
irradiated, CP 60, 726*; NT 193, 371*; P 32, 965*; P 32, 1250*; P 38, 1928*

Water-d$_1$, JA 84, 4683; P 37, 151
irradiated, CP 60, 727*

Water-t, CN 40, 415*; S 133, 1082*

Water-ethanol azeotrope, CN 41, 311

Wilfordic acid, OR 28, 3563
hydroxy-, OR 28, 3563

Wood, NT 196, 334*

Wood tar, SC 17, 1301*

Wool, NT 196, 668*
(+ hydrogen peroxide), NT 196, 668*
(+ persulfate), NT 196, 668*
irradiated, NT 196, 668*

Wurster's Blue, JA 84, 3804*; P 30, 331*
perchlorate, CH 14, 160*; P 39, 2324*

Wurster's Blue-d_4, P 30, 331*

X

Xanthine
(+ xanthine oxidase), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

Xanthine oxidase, BJ 73, 194*
(+ dithionite), BJ 73, 194*
(+ xanthine), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

Xanthinin, OR 27, 2692

Xanthopterol, SC 14, 557

Xanthopterin, 9-acetonyl-, H 46, 2593

Xanthosine, JA 82, 226
(+ nitrogen), irradiated, PC 63, 1765*

Xenon oxyfluoride, P 38, 3029

Xenon tetrafluoride, irradiated, P 39, 429*

m-Xylene, FD 34, 174; JA 83, 1840; V 202
irradiated, P 37, 2406*

o-Xylene, JA 83, 1840; V 201; ZA 164, 133
irradiated, P 37, 2406*

p-Xylene, JA 83, 1840; V 203; ZA 164, 133
irradiated, P 37, 2406*
α,α′-diacetoxy-, HB 584

α-D-Xylohexofuranose, 5-deoxy-1,2-*O*-isopropylidene-, OR 28, 3552

D-Xylopyranose, 5-acetamido-5-deoxy-, OR 28, 2606

α-D-Xylopyranose
acetyl ester, TT 18, 1144
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose, TT 18, 1144
acetyl ester, TT 18, 1144
tetraacetate, CN 41, 310; JA 80, 6102
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose-5-d tetraacetate, CN 41, 310

D-Xylose, PS 51, 257
irradiated, NT 193, 1061*

α-D-Xylose tetraacetate, JA 80, 6101

β-D-Xylose tetraacetate, JA 80, 6101

p-Xylylene-methacrylic acid methyl ester copolymer, PS 62, S9

Y

Yeast, irradiated, NT 183, 540*

Yeast alcohol dehydrogenase
(+ diphosphopyridine nucleotide), NT 197, 183

Yohimbine, FD 34, 108

Ytterbium, PY 31, 53S*

Z

Zeorine acetate, F[5]30, 1702

Zerumbone, TT 9, 4
deoxyhexahydro-, TT 9, 7
hexahydro-, TT 9, 7
tetrahydro-, TT 9, 5

Zinc
(+ ammonia), M 2, 542
(+ ethylenediamine), C (1959), 794
(+ phthalocyanine), P 35, 163*
(+ pyridine + persulfate), P 35, 764*
diethyl-, JA 82, 5984
(+ lithium, 1,1-diphenylhexyl-), JA 85, 4043

Zinc oxide, PC 66, 100*
(+ hydrazyl, diphenylpicryl-), CN 38, 725*

Water-t, CN 40, 415*; S 133, 1082*

Water-ethanol azeotrope, CN 41, 311

Wilfordic acid, OR 28, 3563
hydroxy-, OR 28, 3563

Wood, NT 196, 334*

Wood tar, SC 17, 1301*

Wool, NT 196, 668*
(+ hydrogen peroxide), NT 196, 668*
(+ persulfate), NT 196, 668*
irradiated, NT 196, 668*

Wurster's Blue, JA 84, 3804*; P 30, 331*
perchlorate, CH 14, 160*; P 39, 2324*

Wurster's Blue-d_4, P 30, 331*

X

Xanthine
(+ xanthine oxidase), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

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(+ dithionite), BJ 73, 194*
(+ xanthine), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

Xanthinin, OR 27, 2692

Xanthopterol, SC 14, 557

Xanthopterin, 9-acetonyl-, H 46, 2593

Xanthosine, JA 82, 226
(+ nitrogen), irradiated, PC 63, 1765*

Xenon oxyfluoride, P 38, 3029

Xenon tetrafluoride, irradiated, P 39, 429*

m-Xylene, FD 34, 174; JA 83, 1840; V 202
irradiated, P 37, 2406*

o-Xylene, JA 83, 1840; V 201; ZA 164, 133
irradiated, P 37, 2406*

p-Xylene, JA 83, 1840; V 203; ZA 164, 133
irradiated, P 37, 2406*
α,α′-diacetoxy-, HB 584

α-D-Xylohexofuranose, 5-deoxy-1,2-*O*-isopropylidene-, OR 28, 3552

D-Xylopyranose, 5-acetamido-5-deoxy-, OR 28, 2606

α-D-Xylopyranose
acetyl ester, TT 18, 1144
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose, TT 18, 1144
acetyl ester, TT 18, 1144
tetraacetate, CN 41, 310; JA 80, 6102
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose-5-d tetraacetate, CN 41, 310

D-Xylose, PS 51, 257
irradiated, NT 193, 1061*

α-D-Xylose tetraacetate, JA 80, 6101

β-D-Xylose tetraacetate, JA 80, 6101

p-Xylylene-methacrylic acid methyl ester copolymer, PS 62, S9

Y

Yeast, irradiated, NT 183, 540*

Yeast alcohol dehydrogenase
(+ diphosphopyridine nucleotide), NT 197, 183

Yohimbine, FD 34, 108

Ytterbium, PY 31, 53S*

Z

Zeorine acetate, F[5]30, 1702

Zerumbone, TT 9, 4
deoxyhexahydro-, TT 9, 7
hexahydro-, TT 9, 7
tetrahydro-, TT 9, 5

Zinc
(+ ammonia), M 2, 542
(+ ethylenediamine), C (1959), 794
(+ phthalocyanine), P 35, 163*
(+ pyridine + persulfate), P 35, 764*
diethyl-, JA 82, 5984
(+ lithium, 1,1-diphenylhexyl-), JA 85, 4043

Zinc oxide, PC 66, 100*
(+ hydrazyl, diphenylpicryl-), CN 38, 725*

Water-t, CN 40, 415*; S 133, 1082*

Water-ethanol azeotrope, CN 41, 311

Wilfordic acid, OR 28, 3563
hydroxy-, OR 28, 3563

Wood, NT 196, 334*

Wood tar, SC 17, 1301*

Wool, NT 196, 668*
(+ hydrogen peroxide), NT 196, 668*
(+ persulfate), NT 196, 668*
irradiated, NT 196, 668*

Wurster's Blue, JA 84, 3804*; P 30, 331*
perchlorate, CH 14, 160*; P 39, 2324*

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(+ dithionite), BJ 73, 194*
(+ xanthine), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

Xanthinin, OR 27, 2692

Xanthopterol, SC 14, 557

Xanthopterin, 9-acetonyl-, H 46, 2593

Xanthosine, JA 82, 226
(+ nitrogen), irradiated, PC 63, 1765*

Xenon oxyfluoride, P 38, 3029

Xenon tetrafluoride, irradiated, P 39, 429*

m-Xylene, FD 34, 174; JA 83, 1840; V 202
irradiated, P 37, 2406*

o-Xylene, JA 83, 1840; V 201; ZA 164, 133
irradiated, P 37, 2406*

p-Xylene, JA 83, 1840; V 203; ZA 164, 133
irradiated, P 37, 2406*
α,α′-diacetoxy-, HB 584

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β-D-Xylopyranose, TT 18, 1144
acetyl ester, TT 18, 1144
tetraacetate, CN 41, 310; JA 80, 6102
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose-5-d tetraacetate, CN 41, 310

D-Xylose, PS 51, 257
irradiated, NT 193, 1061*

α-D-Xylose tetraacetate, JA 80, 6101

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irradiated, NT 196, 668*

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perchlorate, CH 14, 160*; P 39, 2324*

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(+ xanthine), BJ 73, 194*; BJ 81, 180*; BJ 81, 197*

Xanthinin, OR 27, 2692

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tetraacetate, CN 41, 310; JA 80, 6102
trimethylsilyl ether, TT 18, 1144

β-D-Xylopyranose-5-d tetraacetate, CN 41, 310

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irradiated, NT 193, 1061*

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diethyl-, JA 82, 5984
(+ lithium, 1,1-diphenylhexyl-), JA 85, 4043

Zinc oxide, PC 66, 100*
(+ hydrazyl, diphenylpicryl-), CN 38, 725*

Zinc oxide-gallium, PC 66, 100*

Zinc oxide-lithium, PC 66, 100*

Zinc sulfide, P 37, 1265*

Zinc sulfide-aluminum, SD 22, 238*

Zirconium
(+ acetone, acetyl- + trifluoroacetylacetone),
JA 85, 3508

Zirconium diboride, P 32, 288

Zirconium hydride, P 36, 760

Zirconium tetrafluoride
monohydrate, IN 25, 792
trihydrate, IN 25, 791