

SOLUBILITIES
OF
INORGANIC AND ORGANIC
COMPOUNDS

VOLUME 1

Binary Systems

PART 2

Edited by

Prof. H. STEPHEN, O.B.E., D.Sc., F.R.I.C.

and

Dr. T. STEPHEN, M.Sc., Ph.D.



PERGAMON PRESS

OXFORD · NEW YORK · TORONTO · SYDNEY · PARIS · FRANKFURT

U.K.	Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW, England
U.S.A.	Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, New York 10523, U.S.A.
CANADA	Pergamon of Canada, Suite 104, 150 Consumers Road, Willowdale, Ontario M2J 1P9, Canada
AUSTRALIA	Pergamon Press (Aust.) Pty. Ltd., P.O. Box 544, Potts Point, N.S.W. 2011, Australia
FRANCE	Pergamon Press SARL, 24 rue des Ecoles, 75240 Paris, Cedex 05, France
FEDERAL REPUBLIC OF GERMANY	Pergamon Press GmbH, 6242 Kronberg-Taunus, Pferdstrosse 1, Federal Republic of Germany

Copyright © 1963 Pergamon Press Ltd.
All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means: electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the publishers

First edition 1963

Reprinted 1979

British Library Cataloguing in Publication Data

Solubilities of inorganic and organic compounds.

Vol. 1: Binary systems. Part 2

I. Solubility - Tables

I. Stephen, H II. Stephen, T

III. Akademii nauk SSSR

541'.342'0212 QD543 79-40319

ISBN 0-08-009924-6

ISBN 0-08-023599-9 Set of 3 Vols in 5

PREFACE TO THE ENGLISH EDITION

THE compilation of a manual on solubility presents considerable difficulties in view of the scattered nature of the experimental data and the ever increasing number of published results.

In view of the great need for systematic data on solubilities, the task of compiling such a manual lies not so much in including all data relevant to solutions and solubilities, but in making a selection of the most valuable and proved experimental data. This information should then be presented in as convenient and systematic a form as possible, and in our opinion this Manual will be of value to research workers, teaching establishments and industry.

Additional data compiled after the Russian work was published has been included at the end of Volume 1, part 2.

The publication of this work by Pergamon Press helps to further scientific contact between our two countries.

MOSCOW, DECEMBER 1962

V. V. KAFAROV.

INTRODUCTION

THIS manual containing approximately 5500 pages is a selection from the International Chemical Literature on the Solubilities of Elements, Inorganic Compounds, Metallo-organic and Organic Compounds in Binary, Ternary and Multi-component Systems. A careful survey of the Literature in all languages by a panel of scientists specially appointed for the task by the U.S.S.R. Academy of Sciences, Moscow, has made the compilation of this work possible.

The complete English edition in five separately bound volumes will be published during 1963. Volume I, parts 1 and 2, comprises the solubilities of Elements, Inorganic Compounds, Metallo-organic and Organic Compounds in Binary Systems. Volume II, parts 1, 2 and 3, comprises the solubilities in Ternary and Multi-component Systems.

In order to remove any ambiguity as to the exact structure of a compound, and also to overcome the possibility of misinterpretation resulting from the various types of nomenclature used, as well as the trivial and obsolete names encountered in the wide range of literature consulted, the Editors of this edition have named the compounds in accordance with the recommendations of the Commission on Nomenclature of Organic and Inorganic Chemistry of the International Union of Pure and Applied Chemistry. This enables the user to combine, compare and evaluate without difficulty the data obtained from a variety of sources on the same or closely related compounds.

The systematic arrangement of the compounds and the solvents together with the distinct and separate—Binary, Ternary and Multi-component Systems—ensures that the information required may be easily located. Each volume, a complete work in itself, has been provided with two separate comprehensive indexes of formulae and names of compounds. These indexes, presented as those used in *Chemical Abstracts*, are therefore familiar and internationally approved.

GUIDE TO THE PRESENTATION OF VOLUME ONE, PARTS 1 AND 2

Table 1 (pp. 5–79) lists the solubilities of various substances in water and is followed by Tables (pp. 80–1603) giving either the mutual solubilities of binary systems or the solubilities of different compounds. These Tables are numbered consecutively in the top

left hand corner, the numbers locating the required compound in the Index published at the end of Volume 1, part 2. The references to the original literature from which the data has been selected are arranged numerically on pp. 1604–1645 (in Volume 1, part 2). The numbers referring to this literature are in square brackets in the top right hand corner of each Table heading except Table 1 where they are given in the second to last column.

Tables 1–1694 inclusive deal with Binary Systems in which Water is one of the components. Tables 1695 *et seq.* are devoted to Binary systems consisting of components other than Water. The latter Tables are arranged according to the chemical formula of the component with the lower number of carbon atoms in the molecule irrespective of whether that component is the solvent or the compound dissolved.

The solubilities given are based on the formula appearing in the Table. Thus, if the solubility takes into account the water of crystallization, then the formula of the hydrate is given in the Table.

The solubilities are expressed in Wt. %; Vol. %; Mol. % or g/l.; the last unless otherwise stated refers to the solubility in grams per litre of solvent. Temperature “t” is in degrees Centigrade and Pressure “p” in mm of mercury. The letters A and/or B, appearing at the head of columns in the Tables and Formula index pp. 1668–1763 refer to the compound dissolved and solvent respectively named in the Table headings.

In two Tables (pp. 1646–1667) details are given of equilibrium conditions in solid phases for systems with aqueous and non-aqueous solvents. The formulae of the different solid phases in equilibrium with the saturated solution for each compound listed are given and in addition to the transition temperatures, the solubility of the substance being investigated is shown.

Formula Index (pp. 1668–1763. *Vol. I part 2*) The formulae of the compounds (components A) have been divided into two sections (1) Inorganic, and Metallo-organic compounds and (2) Carbon compounds. The former are arranged in order of the periodic Classification of the Elements and these are followed by the formulae of Carbon compounds analysed in order of increasing number of carbon atoms. Opposite each entry is given the component B (solvent) and the Table number referring to the particular binary system.

Index of Compounds (From p. 1764, *Vol. 1, part 2*) The names of the compounds arranged alphabetically conform to the I.U.P.A.C. Rules. Inorganic and Metallo-organic compounds are listed under the Elements in Alphabetical order except that Acids,

Hydrazine, Hydroxylamine, and Thionyl, Sulfonium and Uranyl compounds have separate headings. Ferrous and ferric compounds are under Iron; stannous and stannic under Tin; cuprous and cupric under Copper; aurous and auric under Gold. Names like bicarbonate and bisulfate have not been used (the number of acidic Hydrogens being indicated instead). Prefixes like di-, tri-, meta-, pyro-, etc. as well as chloro-, bromo-, nitro-, etc. are alphabetized. Binary compounds of Hydrogen (except NH_3 and H_2O) are listed under Hydrogen e.g. Hydrogen Chloride, Hydrogen Fluoride, etc. Metallic Complexes, e.g. amino and related compounds as well as chloroplatinates, molybdophosphates, hexacyanoferrates, etc. are listed under the element in question and alphabetically arranged, together with the simpler salts.

The Organic compounds are arranged within the same alphabet by PARENT COMPOUND, the substituting atoms and groups e.g. chloro-, bromo-, methyl-, nitro-, etc. being arranged alphabetically under this name. By this means all compounds structurally related are brought together for purposes of comparison and easy location. But in addition, the index includes the common names of industrial or commercial importance as well as those used in teaching establishments and laboratories. In many cases information has been indexed additionally under these names or else adequate cross references are given.

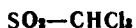
ACKNOWLEDGMENT

THE publishers and editors express their appreciation to Colonel M. Konarski for rendering valuable assistance during the preparation of this work for press, and to Mr. David Platt for his assistance in providing the exact English equivalent for some of the Russian terms.

№ 3751

SULFUR DIOXIDE – CHLOROFORM

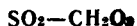
[1224]



Solubility A, g/l.	<i>t</i>	<i>P</i>	Solubility A, g/l.	<i>t</i>	<i>P</i>
0.701	0	2.7	0.669	25	5.7
1.790	0	5.6	1.712	25	12.9
6.982	0	22.0	6.728	25	48.0
30.97	0	90.2	29.54	25	200.2
82.17	0	219.6	78.39	25	488.8

№ 3752

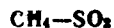
[1758]

**SULFUR DIOXIDE –
FORMIC ACID**

Solubility A, Wt. %	<i>t</i>	<i>P</i>
45.1	0	725

№ 3753

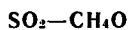
[584]

METHANE – SULFUR DIOXIDE

Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at
12.6	28.3	35.0
5.4	28.3	17.2
11.8	–32.0	35.0
6.3	–32.0	18.7
5.9	–32.0	16.9

№ 3754

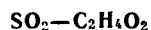
[410, 411]

**SULFUR DIOXIDE –
METHANOL**

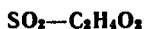
Solubility A, Wt. %	<i>t</i>
71.1	0.0
59.9	7.0
52.2	12.3
44.0	17.8
31.7	26.0

№ 3755

[1758]

**SULFUR DIOXIDE –
ACETIC ACID**

Solubility A, Wt. %	<i>t</i>	<i>P</i>
49.0	0	725

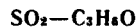


Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0.0	100.0	16.6	33.5	66.5	-40.4
7.7	92.3	11.5	46.4	53.6	-38.0
9.6	90.4	8.3	59.6	40.4	-38.7
13.1	86.9	-44.1	63.3	36.7	-39.2
18.0	82.0	-44.2	78.3	21.7	-75.6
24.7	75.3	-41.9	100.0	0.0	-72.7

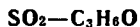
**SULFUR DIOXIDE –
ETHANOL**
 $\text{SO}_2 - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt.%	<i>t</i>
53.5	0.0
45.0	7.0
39.9	12.3
32.8	18.2
24.4	26.0

**SULFUR DIOXIDE –
ACETONE**



Solubility A, Wt.%	<i>t</i>	<i>p</i>
67.4	0	725

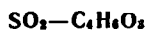


Expressed as	<i>t</i>	<i>p</i>	Expressed as	Expressed as	<i>t</i>	<i>p</i>	Expressed as
0.0	25	229.2	Mol.%	44.5	25	740.1	Mol.%
14.2	25	304.2		51.9	25	994.3	
23.7	25	381.8		276.4	10	760	
30.8	25	473.4		216.4	25	760	cc/cc B
36.8	25	574.0		171.3	40	760	



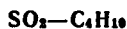
Expressed as	<i>t</i>	<i>P</i>	Expressed as	Expressed as	<i>t</i>	<i>P</i>	Expressed as
0.0	25	213.4	Mol. %	45.6	25	894.3	Mol. %
14.3	25	324.4		49.7	25	1038.5	
25.4	25	456.7		254.9	10	760	cc/cc B
33.6	25	602.5		182.1	25	760	
40.6	25	754.4		133.8	40	760	

SULFUR DIOXIDE – ACETIC ANHYDRIDE



Solubility A, g/l.	<i>t</i>	Solubility A, g/l.	<i>t</i>
196	-5	114	15
148	0	106	20
136	5	99	25
122	10	90	30

SULFUR DIOXIDE – BUTANE



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
9.2	90.8	-64.0	69.3	30.7	-5.1
33.9	66.1	-17.2	70.0*	30.0	-4.7
36.1	63.9	-16.0	73.6	26.4	-4.7
38.4	61.6	-15.0	85.9	14.1	-8.0
56.4	43.6	-6.8	95.3	4.7	-26.0

* crit.pt.

№ 3763

SULFUR DIOXIDE – PYRIDINE
 $\text{SO}_2 - \text{C}_5\text{H}_5\text{N}$

[941]

Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
B	A		B	A		B	A	
0.0	100.0	-72.4	35.1	64.9	-31.8	65.0	35.0	-21.6
4.2	95.8	-74.5	41.3	58.7	-17.8	71.0	29.0	-32.3
8.5	91.5	-77.2	45.2	54.8	-11.6	75.7	24.3	-42.5
13.2	86.8	-82.0	49.2	50.8	-7.0	79.2	20.8	-50.8
16.0	84.0	-87.3	49.8	50.2	-7.4	80.5	19.5	-54.0
17.0	83.0	-84.5	50.8	49.2	-7.4	83.3	16.7	-52.0
23.2	76.8	-68.0	53.0	47.0	-7.4	89.6	10.4	-47.4
25.4	74.6	-61.8	53.9	46.1	-8.6	100.0	0.0	-41.5
26.6	73.4	-59.6	56.2	43.8	-11.1			
30.6	69.4	-46.6	57.5	42.5	-11.2			

№ 3764

[456]

PICRIC ACID –
SULFUR DIOXIDE


Solubility A, Wt. %	<i>t</i>
27.54	20

№ 3765

[456]

p-CHLORONITROBENZENE –
SULFUR DIOXIDE


Solubility A, Wt. %	<i>t</i>
38.0	20

№ 3766

[456]

DINITROBENZENE –
SULFUR DIOXIDE


Solubility A, Wt. %	<i>t</i>
51.0	20

№ 3767

SULFUR DIOXIDE – CHLOROBENZENE
 $\text{SO}_2 - \text{C}_6\text{H}_5\text{Cl}$

[964]

Expressed as	<i>t</i>	<i>P</i>	Expressed as	Expressed as	<i>t</i>	<i>P</i>	Expressed as
0.0	25	111.6	Mol. %	169.3	0	760	cc/cc B
6.02	25	274.9		97.4	10	760	
11.63	25	506.3		59.14	20	760	
16.66	25	669.4		29.92	40	760	
18.76	25	778.3		22.88	50	760	
22.02	25	895.4		17.83	60	760	
26.35	25	1048.5		12.23	80	760	

№ 3768 **SULFUR DIOXIDE – NITROBENZENE** [1232]



Solubility A, g/l.	<i>t</i>	Solubility A, g/l.	<i>t</i>
311.4	15	132.0	40
267.4	20	98.7	50
227.9	25	78.6	60
190.0	30		

№ 3769 [456]

**NITROBENZENE –
SULFUR DIOXIDE**



Solubility A, Wt. %	<i>t</i>
50	20

№ 3770 [1232]

SULFUR DIOXIDE – BENZENE



Solubility A, g/l.	<i>t</i>
127.5	30
82.9	40
60.3	50
34.0	60

№ 3771

SULFUR DIOXIDE – BENZENE

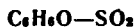
[964]



Solubility A,	<i>t</i>	<i>p</i>	Expressed as	Solubility A,	<i>t</i>	<i>p</i>	Expressed as
0.0	25	93.7	Mol. %	29.09	25	1012.2	Mol. %
6.18	25	291.3		126.4	10	760	
12.47	25	493.7		70.01	25	760	
17.83	25	663.7		43.01	40	760	
22.52	25	808.9		32.63	50	760	
26.05	25	923.2		25.36	60	760	
							cc/cc B,

№ 3772 [456]

PHENOL – SULFUR DIOXIDE



Solubility A, Wt. %	<i>t</i>
28.0	20

№ 3773 1, 4 - BENZENEDIOL -- SULFUR DIOXIDE [472]



Solubility A, Wt. %		<i>t</i>	Solubility A, Wt. %		<i>t</i>
0.88		63.0	7.67		134.2
1.20		73.5	9.35		136.7
2.13		89.2	11.74		141.4
4.27		117.6	12.97		145.0
5.36		123.3			

№ 3774

[456]

**NITROANILINE --
SULFUR DIOXIDE**

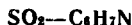


Solubility A, Wt. %	<i>t</i>
13.0	20

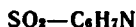
№ 3775

SULFUR DIOXIDE -- 2-METHYLPYRIDINE

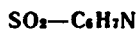
[941]



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
B	A		B	A		B	A	
0.0	100.0	-72.4	35.9	64.1	-19.3	62.8	37.2	-36.9
2.2	97.8	-74.0	36.6	63.4	-18.7	64.1	35.9	-39.7
4.8	95.2	-75.0	39.5	60.5	-17.7	66.7	33.3	-44.0
5.5	94.5	-75.3	40.0	60.0	-17.8	68.2	31.8	-47.7
7.6	92.4	-76.8	40.7	59.3	-17.9	70.2	29.8	-52.6
8.0	92.0	-76.2	41.5	58.5	-17.6	71.8	28.2	-55.5
9.7	90.3	-66.6	42.0	58.0	-18.0	73.5	26.5	-59.8
12.8	87.2	-57.2	43.7	56.3	-18.7	75.0	25.0	-63.4
13.7	86.3	-51.3	45.5	54.5	-19.5	76.6	23.4	-69.2
16.8	83.2	-43.2	46.3	53.7	-20.1	77.8	22.2	-73.5
16.9	83.1	-42.8	46.8	53.2	-20.0	79.3	20.7	-78.9
20.7	79.3	-36.5	48.3	51.7	-19.6	79.7	20.3	-78.4
21.0	79.0	-36.2	49.4	50.6	-19.5	80.3	19.7	-77.6
22.9	77.1	-33.5	50.0	50.0	-19.4	81.7	18.3	-74.0
25.4	74.6	-29.5	51.3	48.7	-19.8	83.8	16.2	-73.0
29.2	70.8	-25.6	53.4	46.6	-21.5	90.4	9.6	-67.9
29.8	70.2	-25.1	55.8	44.2	-24.6	100.0	0.0	-64.2
33.9	66.1	-20.8	59.5	40.5	-30.6			



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
B	A		B	A		B	A	
0.0	100.0	-72.4	43.9	56.1	-25.8	71.5	28.5	-50.3
4.1	95.9	-76.6	45.0	55.0	-23.2	74.4	25.6	-56.2
7.7	92.3	-78.9	46.9	53.1	-19.2	75.8	24.2	-60.0
13.4	86.6	-84.7	48.2	51.8	-16.9	77.7	22.3	-63.7
15.4	84.6	-86.9	49.7	50.3	-15.0	79.0	21.0	-66.8
18.7	81.3	-76.0	51.5	48.5	-15.0	80.0	20.0	-62.8
25.9	74.1	-59.1	53.8	46.2	-16.3	81.4	18.6	-58.4
26.5	73.5	-57.1	56.1	73.9	-19.5	85.9	14.1	-44.6
32.3	67.7	-46.7	59.8	40.2	-25.3	90.3	9.7	-33.9
35.9	64.1	-39.8	63.4	36.6	-31.7	94.5	5.5	-26.4
37.3	62.2	-36.0	65.8	34.2	-36.8	100.0	0.0	-18.3
38.2	61.8	-35.1	68.3	31.7	-41.9			



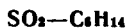
Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
B	A		B	A		B	A	
0.0	100.0	-72.4	23.4	76.6	-35.9	44.7	55.3	1.5
1.1	98.9	-73.4	24.0	76.0	-33.7	45.9	54.1	3.8
2.2	97.8	-74.0	24.8	75.2	-33.8	46.7	53.3	4.8
3.4	96.6	-74.8	26.9	73.1	-30.8	49.0	51.0	5.2
4.3	95.7	-75.5	27.8	72.2	-29.1	49.5	50.5	5.0
4.9	95.1	-74.0	28.6	71.4	-27.8	51.0	49.0	4.8
6.0	94.0	-68.0	29.5	70.5	-28.2	54.4	45.6	3.4
6.6	93.4	-65.4	29.7	70.3	-27.8	55.9	44.1	2.3
6.5	93.5	-65.0	29.9	70.1	-27.0	58.3	41.7	0.0
7.2	92.8	-62.5	30.9	69.1	-27.6	61.4	38.6	-5.1
8.8	91.2	-60.3	31.2	68.8	-27.2	64.0	36.0	-10.0
9.7	90.3	-59.2	31.5	68.5	-26.6	67.1	32.9	-15.0
10.0	90.0	-59.2	32.2	67.8	-27.0	68.9	31.1	-19.8
11.4	88.6	-56.2	32.7	67.3	-26.4	69.6	30.4	-24.0
11.8	88.2	-56.4	33.5	66.5	-24.8	70.0	30.0	-24.9
14.5	85.5	-51.2	35.2	64.8	-21.2	72.6	27.4	-20.8
14.8	85.2	-51.5	36.5	63.5	-17.3	76.0	24.0	-16.5
16.1	83.9	-48.0	37.3	62.7	-14.7	79.8	20.2	-12.5
18.0	82.0	-45.0	38.4	61.6	-12.8	83.5	16.5	-8.3
18.8	81.2	-43.8	33.5	60.5	-9.3	91.0	9.0	-3.3
20.6	79.4	-40.9	41.2	58.8	-5.4	94.9	5.1	0.0
21.5	78.5	-38.7	41.7	58.3	-4.2	100.0	0.0	3.5



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.0	94.0	-8.5	40.8	59.2	13.5
7.8	92.2	-6.0	59.1	40.9	11.3
12.1	87.9	4.0	65.0	35.0	11.0
16.8	83.2	8.8	77.0	23.0	1.5
34.6	65.4	13.3	82.0	18.0	-1.0



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	-72.8	18.5	81.50	9.9	75.5	24.5	-3.3
1.0	99.0	-61.5	32.4	67.6	10.1	84.1	15.9	-19.0
3.3	96.7	-20.3	41.0	59.0	10.0	88.0	12.0	-28.1
5.3	94.7	7.0	57.3	42.7	7.1	88.4	11.6	-30
7.3	92.7	8.6	61.5	38.5	7.0	88.8	11.2	-31
11.75	88.25	9.0	69.3	30.7	3.0	100.0	0.0	-93.7



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
17.9	82.1	-53.0	63.5	36.5	10.6	90.0	10.0	6.5
27.5	72.5	-22.0	65.0	35.0	10.0	91.7	8.3	3.8
30.0	70.0	-17.0	72.0*	28.0	10.2	92.5	7.5	2.5
54.0	46.0	8.0	73.7	26.3	10.2	96.5	3.5	-10.0
58.0	42.0	9.9	85.5	14.5	9.8	97.5	2.5	-20.0

DINITROTOLUENE -
SULFUR DIOXIDE

Solubility A, Wt. %	<i>t</i>
40	20

* crit.pt.

BENZAMIDE - SULFUR DIOXIDE



Solubility A, Wt. %	<i>t</i>
17.0	20

№ 3783 **SULFUR DIOXIDE - o-NITROTOLUENE** [1232]



Solubility A, g/l.	<i>t</i>	Solubility A, g/l.	<i>t</i>
290.8	15	118.5	40
236.0	20	87.2	50
192.2	25	68.8	60
160.7	30		

№ 3784 [1232]

SULFUR DIOXIDE - TOLUENE



Solubility A, g/l.	<i>t</i>
217.5	20
170.4	25
124.4	30
93.6	40
77.2	50
54.7	60

№ 3785 [2133]

SULFUR DIOXIDE - TOLUENE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
21.64	78.36	17
24.21	75.79	21
34.56	65.44	21
54.50	45.50	13.5
72.07	27.93	7
92.95	7.05	-25

№ 3786

N, N - DIMETHYLANILINE - SULFUR DIOXIDE

[392]

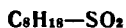


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	-75.0	31.4	68.6	-17.1	66.9	33.1	10.9
9.1	90.9	-77.5	33.4	66.6	-10.5	69.5	30.5	9.2
13.3	86.7	-81.1	34.9	65.1	-8.5	74.9	25.1	5.3
16.1	83.9	-85.1	37.6	62.4	-1.1	78.1	21.9	2.3
17.8	82.2	-90.1	42.4	57.6	7.1	83.8	16.2	-4.5
19.8	80.2	-72.5	43.5	56.5	10.7	85.7	14.3	-6.8
22.1	77.9	-59.1	47.4	52.6	12.1	88.5	11.5	-3.8
24.8	75.2	-44.6	50.4	49.6	12.4	91.8	8.2	-0.5
25.1	74.9	-41.3	58.7	41.3	12.6	93.4	6.6	-0.8
27.4	72.6	-30.1	64.9	35.1	11.5	100.0	0.0	2.0
28.8	71.2	-24.4	65.1	34.9	11.9			

№ 3787

OCTANE – SULFUR DIOXIDE

[1781]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
2.42	97.58	—10.8	61.37	38.63	19.81
3.39	96.61	—3.6	76.95	23.05	0.7
17.26	82.74	24.25	87.44	12.56	—18.6
50.00	50.00	26.85	96.34	3.66	—19.7

№ 3788

[456]

NAPHTHALENE – SULFUR DIOXIDE

Solubility A, Wt. %	<i>t</i>
23.0	20

№ 3789

[456]

**PHENYLPYRROLE –
SULFUR DIOXIDE**

Solubility A, Wt. %	<i>t</i>
15.0	20

№ 3790

[456]

**1 - PHENYL - 1, 3 - BUTANEDIONE
– SULFUR DIOXIDE**

Solubility A, Wt. %	<i>t</i>
43.0	20

№ 3791

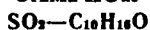
[456]

**BROMOCAMPHOR –
SULFUR DIOXIDE**

Solubility A, Wt. %	<i>t</i>
61.0	20

№ 3792

[1758]

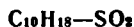
**SULFUR DIOXIDE –
CAMPHOR**

Solubility A, Wt. %	<i>t</i>	<i>p</i>
46.80	0	725

№ 3793

DECAHYDRONAPHTHALENE - SULFUR DIOXIDE

[2133]

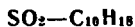


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.62	98.38	-14.5	13.80	86.20	38.0
2.86	97.14	0.5	27.34	72.66	50.75
5.53	94.47	18.0	52.48	47.52	51.50
9.72	90.28	28.5	81.39	18.61	22.25

№ 3794

SULFUR DIOXIDE - DECAHYDRONAPHTHALENE

[1779]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
8.77	91.23	-14.9	51.67	48.33	35.5	86.58	13.42	41.65
20.93	79.07	3.95	60.63	39.37	40.4	90.78	9.22	39.95
35.06	64.94	25.20	70.23	29.77	41.35	95.15	4.85	26.8
46.70	53.30	32.6	77.72	22.28	41.8	96.37	3.63	22.4

№ 3795

[456]

MENTHOL - SULFUR DIOXIDE

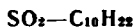


Solubility A, Wt. %	<i>t</i>
27.0	20

№ 3796

SULFUR DIOXIDE - DECANE

[1785]

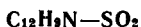


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
13.3	86.7	-23.0	54.6	45.4	29.0	93.0	7.0	34.4
29.8	70.2	0.0	73.8	26.2	37.0	93.5	6.5	33.8
35.0	65.0	7.5	76.0*	24.0	37.3	94.1	5.9	32.8
40.0	60.0	14.1	81.3	18.7	37.3	99.0	1.0	0.4
50.5	49.5	26.0	82.7	17.3	37.2			

* crit.pt.

№ 3797

[456]

CARBAZOLE – SULFUR DIOXIDE

Solubility A, Wt.%	<i>t</i>
3.0	20

№ 3798

[456]

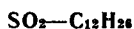
**PHENOTHAZINE –
SULFUR DIOXIDE**

Solubility A, Wt.%	<i>t</i>
21.0	20

№ 3799

SULFUR DIOXIDE – DODECANE

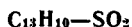
[1785]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
25.7	74.3	-1.0	70.5	29.5	41.6	91.8	8.2	46.4
39.2	60.8	14.5	75.2	24.8	44.0	95.0	5.0	41.8
54.3	45.7	31.1	80.4	19.6	45.3	97.8	2.8	30.2
50.6	49.4	36.0	86.0*	14.0	47.3			
65.0	35.0	40.3	87.8	12.2	47.3			

№ 3800

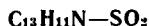
[456]

FLUORENE – SULFUR DIOXIDE

Solubility A, Wt.%	<i>t</i>
24.0	20

№ 3801

[456]

**N - BENZYLIDENEANILINE –
SULFUR DIOXIDE**

Solubility A, Wt.%	<i>t</i>
53.0	20

№ 3302

ANTHRAQUINONE – SULFUR DIOXIDE (LIQUID)

[472]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
0.64	99.36	3.96	3.54	96.46	101.4	8.76	91.24	160.0
0.87	99.13	51.5	4.06	95.94	106.3	11.27	88.73	179.0
1.70	98.30	67.9	4.21	95.79	118.7	15.47	84.53	183.7
2.19	97.81	82.4	5.30	94.70	118.5			
2.73	97.27	92.1	7.00	93.00	141.6			

* crit.pt.



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
2.07	97.93	40.1	6.66	93.34	88.0
2.42	97.58	45.8	8.56	91.44	98.0
2.58	97.42	47.9	9.05	90.95	99.1
3.85	96.15	65.0	11.33	88.67	106.5
5.36	94.64	78.2			

SULFUR DIOXIDE

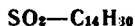
1,2-DIPHENYLETHANE-SULPHUR DIOXIDE



Solubility A, Wt.%	<i>t</i>
23.0	20

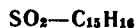
Solubility A, Wt.%	<i>t</i>
28.0	20

SULFUR DIOXIDE - TETRADECANE



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
9.8	90.2	2.6	85.0	15.0	55.4	94.8	5.2	52.7
37.4	62.6	16.9	86.0	14.0	55.5	97.7	2.3	44.7
42.5	57.5	26.0	89.0*	11.0	55.5	99.4	0.6	21.6
54.0	46.0	33.7	89.9	10.1	55.3	99.6	0.4	11.5
60.4	39.6	40.5	91.0	9.0	55.1			
77.4	22.6	53.4	94.3	5.7	53.7			

SULFUR DIOXIDE - DITOLYLMETHANE



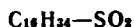
Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
37.1	4.5	8.40	42	3.17	75
31.0	9	5.59	54.5	2.02	89.5
16.6	17.5	4.93	60	1.62	130
12.7	25	3.81	65	0.94	140
9.75	34.5	3.65	70		

* crit.pt.

№ 3808

HEXADECANE – SULFUR DIOXIDE

[1783]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.00	100.0	72.7	50.19	49.81	38.4
3.97	96.03	24.0	53.42	46.58	34.8
6.64	93.36	32.1	61.90	38.10	28.1
17.40	82.60	42.6	69.16	30.84	23.5
35.13	64.87	42.7	79.23	20.77	9.5
44.73	55.27	42.5	100.0	0.0	-2.2

№ 3809

1-HEXADECANOL – SULFUR DIOXIDE

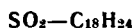
[1772]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.42	99.58	5.3	46.39	53.61	24.8
7.70	92.30	22.2	57.46	42.54	25.5
10.40	89.60	22.7	66.27	33.73	27.8
11.20	88.80	22.7	69.00	31.00	30.9
28.34	71.66	23.8	95.85	4.15	41.6
31.18	68.82	23.5	100.0	0.0	48.0
34.87	65.13	23.9			

№ 3810

[28]

**SULFUR DIOXIDE –
ISOPROPYLBENZENE**

Solubility A, Wt. %	<i>t</i>
21.0	4,5
9.69	25
6.98	42

№ 3811

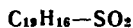
[2038]

**SULFUR DIOXIDE –
TRANS-9-OCTADECENOIC ACID**

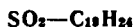
Mutual Solubility, Wt. %		<i>t</i>
A	B	
95.57	4.43	14
90.16	9.84	22
81.74	18.26	22.5

№ 3812

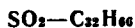
[456]

**TRIPHENYLMETHANE –
SULFUR DIOXIDE**

Solubility A, Wt. %	<i>t</i>
16.0	20



Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
26.0	3	9.75	25	3.42	65
22.6	4.5	7.62	34.5	2.55	75
17.7	9	7.04	42	1.62	89.5
11.7	17.5	3.72	54.5		



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
82.9	17.1	60.1	94.7	5.3	104.0
77.8	22.2	63.1	97.4*	2.6	110.0
56.4	43.6	64.3	98.3	1.7	108.0
56.7	43.3	64.5	98.8	1.2	103.3
90.9	9.1	79.0	99.1	0.9	103.5
94.6	5.4	101.0	99.8	0.2	75.0

SULFUR DIOXIDE – GLYCEROL
TRIOCTADECANOATE

Mutual Solubility, Wt.%		<i>t</i>
A	B	
93.28	6.72	34
91.14	8.86	37
86.18	13.82	37.5



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
99.4	0.6	—12.6	51.6	48.4	38.5
97.60	2.40	13.0	43.5	56.5	34.25
95.77	4.23	24.5	36.4	63.6	28.0
91.46	8.54	36.0	26.4	73.6	13.25
88.86	11.14	39.75	21.0	79.0	—3.0
77.9	22.1	44.0	14.9	85.1	—20.5
70.7	29.3	43.0	13.8	86.2	—23.5

* Critical point

** American petroleum; b.p. —175—250, d_{18} —0.8102, n_D^{15} —1.4514.

№ 3817 [2038]

**SULFUR DIOXIDE -
ANIMAL FAT**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
98.90	1.10	21.75
89.03	10.97	43.75
56.93	43.07	25.5

№ 3819 [2038]

**SULFUR DIOXIDE -
LINSEED OIL**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
97.01	2.99	-6.25
92.21	7.79	0.5
77.51	22.49	-2.0
62.21	37.79	-6.75
35.50	64.50	-14.0
29.15	70.85	-16.0

№ 3821 [2038]

**SULFUR DIOXIDE -
CASTOR OIL**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
97.95	2.05	-19
92.77	7.23	-8
71.26	28.74	-11.5
45.69	54.31	-21.0
36.96	63.04	-21.5
13.18	86.82	-22

№ 3818 [1986]

SULFUR DIOXIDE - RUBBER
SO₂- —

Solubility A cc/cc B	<i>t</i>
19.5	21

№ 3820 [2038]

**SULFUR DIOXIDE -
OLIVE OIL**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
92.05	7.95	28.5
88.88	11.12	34.0
52.14	47.86	8.5
20.93	79.07	-21.5

№ 3822 [2038]

**SULFUR DIOXIDE -
COLZA OIL**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
95.59	4.41	39.75
89.06	10.94	45.5
73.78	26.22	44.5
52.44	47.56	18.0
47.83	52.17	7.75
19.66	80.34	0.0

№ 3823 [2038]

**SULFUR DIOXIDE -
BONE OIL**
SO₂- —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
98.13	1.87	15.5
74.28	25.72	35.75
62.36	37.64	28.75



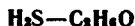
Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	-54.1	23.4	76.6	-19.9	51.1	48.9	0.1
4.7	95.3	-58.5	25.4	74.6	-23.8	55.8	44.2	2.4
14.8	85.2	-66.4	26.8	73.2	-27.0	58.4	41.6	3.8
16.7	83.3	-48.5	33.0	67.0	-39.1	59.7	40.3	4.8
17.3	82.7	-44.5	33.2	66.8	-29.9	62.2	37.8	5.1
17.9	82.1	-39.0	34.4	65.6	-20.9	64.1	35.9	5.6
18.5	81.5	-35.5	37.9	62.1	-17.6	64.9	35.1	6.7
20.9	79.1	-30.1	40.4	59.6	-14.6	69.0	31.0	8.0
21.9	78.1	-25.1	42.1	57.9	-12.2	86.0	14.0	12.6
22.9	77.1	-19.1	43.8	56.2	-6.2	100.0	0.0	14.4



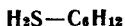
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0	100	-83.5	80	20	-22.5
50	50	118	82.5	17.5	-30
55	45	114.5	87.5	12.5	-48.3
60	40	100.8	90	10	-60
65	35	79	92.5	7.5	-72
70	30	40	95	5	-88
72.5	27.5	11	97.5	2.5	-83.5
75	25	-18	100	0	-78

HYDROGEN SULFIDE —

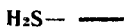
ETHANOL



Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
17.89	0
14.78	5
11.99	10
9.54	15
7.42	20
5.96	24



Solubility A, Mol. %	<i>t</i>	<i>p</i>	Solubility A, Mol. %	<i>t</i>	<i>p</i>	Solubility A, Mol. %	<i>t</i>	<i>p</i>
0.34	10	100	0.24	20	100	0.20	40	100
0.76	10	200	0.58	20	200	0.46	40	200
1.26	10	300	1.00	20	300	0.80	40	300
1.86	10	400	1.54	20	400	1.22	40	400
2.65	10	500	2.18	20	500	1.70	40	500
3.34	10	600	2.90	20	600	2.24	40	600
4.24	10	700	3.70	20	700	2.88	40	700
5.24	10	800	4.58	20	800	3.60	40	800



$$t = 20$$

Solvent		Solubility A, Mol. %	Solvent		Solubility A, Mol. %
Name	Formula		Name	Formula	
Hexane	C_6H_{14}	3.41	Pentachloroethane	C_2HCl_5	5.14
Octane	C_8H_{18}	4.40	Tribromomethane	CHBr_3	5.81
Dodecane	$\text{C}_{12}\text{H}_{26}$	5.13	Bromoethane	$\text{C}_2\text{H}_5\text{Br}$	6.08
Hexadecane	$\text{C}_{16}\text{H}_{34}$	5.78	Chloroform	CHCl_3	10.30
Cyclohexane	C_6H_{12}	3.38	Bromobenzene	$\text{C}_6\text{H}_5\text{Br}$	3.76
Carbon Tetrachloride	CCl_4	4.19	Chlorobenzene	$\text{C}_6\text{H}_5\text{Cl}$	3.88
Benzene	C_6H_6	5.63	Tetrabromoethane	$\text{C}_2\text{H}_2\text{Br}_4$	4.46
Toluene	C_7H_8	6.72	Tetrachloroethane	$\text{C}_2\text{H}_2\text{Cl}_4$	7.02
Tetrachloroethylene	C_2Cl_4	3.72	Chloroethylene	$\text{C}_2\text{H}_3\text{Cl}$	7.19
Trichloroethylene	C_2HCl_3	4.82			

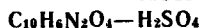
**SULFURIC ACID –
CARBON DIOXIDE**



$$t = 25$$

Mutual Solubility, Wt. %	
A	B
0.1	99.9
94.0	6.0

№ 3830 [183]

**1, 5 - DINITRONAPHTHALENE -
SULFURIC ACID**

Solubility A, Wt. %	<i>t</i>
0.42*	18
1.09*	50
2.70*	100
0.075**	18
0.281**	100

№ 3831 [183]

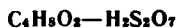
**1, 8 - DINITRONAPHTHALENE -
SULFURIC ACID**

Solubility A, Wt. %	<i>t</i>
2.26*	18
3.81*	50
14.8*	100
0.204**	18
1.03**	100

№ 3832

DIOXANE - PYROSULFURIC ACID

[118]



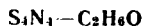
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.00	100.00	34.0	56.20	43.80	58.0	70.02	29.98	59.0
8.08	91.92	10.4	64.98	35.02	74.2	75.42	24.58	49.1
23.75	76.25	-0.9	66.42	33.58	78.0	84.59	15.41	27.0
29.50	70.50	9.7	67.85	32.15	79.1	93.60	6.40	7.0
40.60	59.40	12.5	69.01	30.99	76.0	100.00	0.00	11.8

№ 3833 [25]

**SULFUR NITRIDE -
CARBON DISULFIDE**

Solubility A, g/l.	<i>t</i>
3.705	0
6.845	10
9.391	20
13.188	30
16.887	40

№ 3834 [25]

**SULFUR NITRIDE -
ETHANOL**

Solubility A, g/l.	<i>t</i>
0.645	0
0.830	10
1.050	20
1.271	30
1.478	40
1.640	50

* Sulfuric acid 98.5%

** Sulfuric acid 90.0%

№ 3835

SULFUR NITRIDE - BENZENE

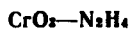
[25]



Solubility A, g/l.	<i>t</i>	Solubility A, g/l.	<i>t</i>
2.266	0	11.107	40
4.260	10	13.721	50
6.301	20	17.100	60
8.692	30		

№ 3836

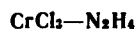
[2044]

**CHROMIUM (III) TRIOXIDE -
HYDRAZINE**

Solubility A, g/l.	<i>t</i>
10	20

№ 3837

[2044]

**CHROMIUM (III) TRICHLORIDE -
HYDRAZINE**

Solubility A, g/l.	<i>t</i>
130	20

№ 3838

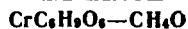
[2074]

**HEXAUREACHROMIUM
(III) PERRHENATE -
ETHANOL**

Solubility A, g/l.	<i>t</i>
8.67	20

№ 3839

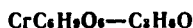
[887]

**CHROMIUM (III) ACETATE -
METHANOL**

Solubility A, Wt. %	<i>t</i>
4.54	15
7.97	66.9

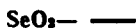
№ 3840

[887]

CHROMIUM (III) ACETATE - ACETONE

Solubility A, Wt. %	<i>t</i>
0.20	15

**SELENIUM DIOXIDE –
VARIOUS SOLVENTS**



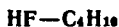
Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H_2O	385	11.3
Ethanol 93%	$\text{C}_2\text{H}_5\text{O}$	102	14.1
Methanol	CH_3O	666	11.8
Acetone	$\text{C}_3\text{H}_6\text{O}$	435	15.3
Acetic Acid	$\text{C}_2\text{H}_4\text{O}_2$	111	12.9

HYDROGEN FLUORIDE – PROPANE

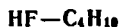


Composition of phases at equilibrium Wt.%					Composition of phases at equilibrium Wt.%				
Layer of A		Organic layer		t	Layer of A		Organic layer		t
A	B	A	B		A	B	A	B	
96.652	3.348	0.567	99.433	0	94.451	5.549	1.577	98.423	30
96.332	3.668	0.683	99.317	5	93.933	6.067	1.835	98.165	35
95.991	4.009	0.817	99.183	10	93.573	6.427	2.124	97.876	40
95.634	4.366	0.971	99.029	15	93.107	6.893	2.448	97.552	45
95.258	4.742	1.148	98.852	20	92.625	7.375	2.808	97.192	50
94.865	5.135	1.350	98.650	25					

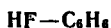
HYDROGEN FLUORIDE – BUTANE



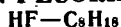
Composition of phases at equilibrium Wt.%					Composition of phases at equilibrium Wt.%				
Layer of A		Organic layer		t	Layer of A		Organic layer		t
A	B	A	B		A	B	A	B	
98.264	1.736	0.258	99.742	0	97.210	2.790	0.627	99.373	30
98.109	1.891	0.304	99.696	5	97.007	2.993	0.715	99.285	35
97.944	2.056	0.355	99.645	10	96.795	3.205	0.874	99.126	40
97.773	2.227	0.412	99.588	15	96.578	3.422	0.918	99.082	45
97.592	2.408	0.476	99.524	20	96.353	3.647	1.035	98.965	50
97.405	2.595	0.548	99.452	25					



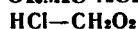
Composition of phases at equilibrium Wt.%				t
Layer of A		Organic layer		
A	B	A	B	
97.593	2.407	0.401	99.599	0
97.346	2.654	0.468	99.532	5
97.095	2.905	0.542	99.458	10
96.826	3.174	0.625	99.375	15
96.540	3.460	0.718	99.282	20
96.240	3.760	0.820	99.180	25
95.925	4.075	0.923	99.077	30
95.593	4.407	1.057	98.943	35
95.251	4.749	1.193	98.807	40
94.892	5.108	1.340	98.660	45
94.519	5.481	1.501	98.499	50



Solubility A Mol.%	t	Temperatures of liquid A, vapors of which were passed through B	Solubility A, Mol.%	t	Temperatures of liquid A, vapors of which were passed through B
2.48	20	-77	4.32	20	0
2.03	30	-77	3.55	30	0
1.58	40	-77	2.75	40	0
1.12	50	-77	1.96	50	0
0.71	60	-77	1.17	60	0
3.85	20	-18	6.73	20	b.p.
3.15	30	-18	5.48	30	"
2.44	40	-18	4.22	40	"
1.73	50	-18	2.98	50	"
1.02	60	-18	1.80	60	"



Solubility A, Mol.%	t
0.338	25.1
0.276	35.0
0.235	45.2
0.194	51.0
0.170	66.3



Solubility A Wt.%	t
2.55	42.9
3.74	30.5
4.54	22.5
5.18	15.5
6.12	8.1

№ 3848 [413]

**HYDROGEN CHLORIDE –
METHANOL
HCl—CH₃O**

Solubility A, Wt. %	<i>t</i>
54.6	-10
51.3	0
47.0	18
43.0	31.7

№ 3849 [764]

**HYDROGEN CHLORIDE –
METHANOL
HCl—CH₃O**

Solubility A, Wt. %	<i>t</i>
42.34	34.2
44.35	27.6
47.21	18.7
48.73	12.4
50.13	7.2
51.50	2.1

№ 3850 [764]

**HYDROGEN CHLORIDE –
TRICHLOROACETIC ACID
HCl—C₂HCl₃O₂**

Solubility A, Wt. %	<i>t</i>
0.33	66.7
0.40	62.2
0.51	56.4
0.64	50.5

№ 3851 [764]

**HYDROGEN CHLORIDE –
MONOCHLOROACETIC ACID
HCl—C₂H₃O₂Cl**

Solubility A, Wt. %	<i>t</i>
0.57	65.5
0.88	55.3
1.14	49.0

№ 3852 [764]

**HYDROGEN CHLORIDE –
ACETIC ACID
HCl—C₂H₄O₂**

Solubility A, Wt. %	<i>t</i>
2.08	50.1
4.32	39.5
6.84	27.0
9.11	16.0
10.30	11.0

№ 3853 [413]

**HYDROGEN CHLORIDE –
ETHANOL
HCl—C₂H₅O**

Solubility A, Wt. %	<i>t</i>
45.4	0
44.2	6.5
42.7	11.5
41.0	20
40.2	23.5
38.1	32

№ 3854 [764]

**HYDROGEN CHLORIDE –
ETHANOL
HCl—C₂H₅O**

Solubility A, Wt. %	<i>t</i>
28.41	40.1
36.69	34.0
39.25	24.4
41.47	15.6
44.70	3.0

№ 3855

[764]

**HYDROGEN CHLORIDE –
ETHYL CHLOROFORMATE**

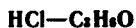


Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.74	45.1	2.43	15.6
1.36	33.6	2.87	8.3
1.65	27.9	3.19	4.1
2.11	20.4		

№ 3856

HYDROGEN CHLORIDE – ACETONE

[928, 1268]

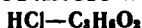


Solubility A, Mol. %	m.p.	Solubility A, Mol. %	m.p.	Solubility A, Mol. %	m.p.
0.0	–94.5	47.1	–76.9	57.26	–86.6
14.43	–107.0	54.0	–78.0	60.39	–92.8
27.29	–114.6	52.91	–80.0	69.7	–81.2
36.5	–91.5	57.7	–84.6	71.7	–80.8
43.0	–85.7	55.56	–82.7	74.3	–85.3

№ 3857

[764]

**HYDROGEN CHLORIDE –
PROPANOIC ACID**



Solubility A, Wt. %	<i>t</i>
3.24	51.0
3.97	42.3
4.60	35.0
5.84	23.3
6.40	17.0
7.30	7.0
7.72	4.9

№ 3858

[764]

**HYDROGEN CHLORIDE –
METHYL ACETATE**

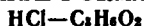


Solubility A, Wt. %	<i>t</i>
15.58	30.4
17.13	26.3
18.27	23.3
19.88	19.0
21.43	14.7
24.35	6.6
26.14	1.6

№ 3859

[764]

**HYDROGEN CHLORIDE –
ETHYL FORMATE**

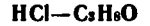


Solubility A, Wt. %	<i>t</i>
5.49	33.5
7.72	28.6
9.57	24.3
13.46	15.2
16.38	8.1

№ 3860

[764]

**HYDROGEN CHLORIDE –
1-PROPANOL**



Solubility A, Wt. %	<i>t</i>
29.15	42.0
31.00	34.2
32.98	25.6
36.13	12.4
37.03	8.5
38.42	2.5

№ 3861 [764]

**HYDROGEN CHLORIDE —
2-PROPANOL
HCl—C₃H₈O**

Solubility A, Wt. %	<i>t</i>
31.11	43.3
33.34	33.3
34.74	27.3
37.05	16.6
39.06	7.4

№ 3863 [764]

**HYDROGEN CHLORIDE —
2, 2, 2-TRICHLOROETHYL
ACETATE
HCl—C₂H₃O₂Cl₃**

Solubility A, Wt. %	<i>t</i>
2.34	43.5
2.53	39.3
2.80	32.6
3.26	26.7
3.92	17.9
4.60	9.9

№ 3865 [764]

**HYDROGEN CHLORIDE —
PROPYL CHLOROFORMATE
HCl—C₃H₇O₂Cl**

Solubility A, Wt. %	<i>t</i>
0.86	44.3
1.50	30.9
2.07	20.2
2.66	9.4
2.86	6.4

№ 3867 [764]

**HYDROGEN CHLORIDE —
ETHYL BROMOACETATE
HCl—C₂H₅O₂Br**

Solubility A, Wt. %	<i>t</i>
1.97	47.2
3.27	34.6
3.92	28.6
4.54	23.0
5.55	14.1
6.38	7.0

№ 3862 [764]

**HYDROGEN CHLORIDE —
ETHYL TRICHLOROACETATE
HCl—C₂H₃O₂Cl₃**

Solubility A, Wt. %	<i>t</i>
0.64	50.9
0.89	39.4
1.09	30.7
1.45	22.1
2.02	10.5

№ 3864 [764]

**HYDROGEN CHLORIDE —
ETHYL DICHLOROACETATE
HCl—C₂H₃O₂Cl₂**

Solubility A, Wt. %	<i>t</i>
1.44	47.8
1.89	39.3
2.45	28.8
3.02	21.0
3.54	13.2
3.78	9.5
4.01	5.8

№ 3866 [764]

**HYDROGEN CHLORIDE —
2-CHLOROETHYL ACETATE
HCl—C₂H₃O₂Cl**

Solubility A, Wt. %	<i>t</i>
4.57	40.3
5.80	33.3
6.92	27.1
8.82	17.0
10.75	6.8

№ 3868 [764]

**HYDROGEN CHLORIDE —
BUTANOIC ACID
HCl—C₄H₈O₂**

Solubility A, Wt. %	<i>t</i>
3.40	43.8
4.17	33.1
5.92	21.3
6.43	17.9
7.86	9.6

№ 3869

[764]

**HYDROGEN CHLORIDE –
2-METHYLPROPANOIC ACID**
HCl—C₄H₈O₂

Solubility A, Wt. %	<i>t</i>
2.74	47.3
4.01	30.8
4.69	25.2
5.40	18.2

№ 3870 HYDROGEN CHLORIDE – ETHYL ACETATE [764]
HCl—C₄H₈O₂

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
9.24	44.8	19.35	15.1
13.15	33.3	20.89	9.7
14.69	28.7	22.46	4.9
17.43	20.4		

№ 3871

[120]

**HYDROGEN CHLORIDE –
DIOXANE**
HCl—C₄H₈O₂

Solubility A, Mol. %		<i>t</i>
A	B	
52.3	47.7	12
45.0	55.0	20

№ 3872

[764]

**HYDROGEN CHLORIDE –
1-BUTANOL**
HCl—C₄H₁₀O

Solubility A, Wt. %	<i>t</i>
24.51	45.0
26.48	35.8
28.92	25.0
30.38	17.9
31.28	13.7
32.44	8.8
33.48	4.0

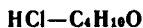
№ 3873

[764]

**HYDROGEN CHLORIDE –
2-METHYL-1-PROPANOL**
HCl—C₄H₁₀O

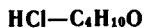
Solubility A, Wt. %	<i>t</i>
24.54	46.4
27.37	33.3
29.22	24.3
30.36	19.1
31.21	14.9
31.78	12.4
33.15	5.9

**HYDROGEN CHLORIDE –
2 - BUTANOL**



Solubility A, Wt. %	<i>t</i>
28.07	39.8
29.81	30.9
30.90	25.5
32.38	18.3
33.98	10.2
34.40	8.1

HYDROGEN CHLORIDE – ETHYL ETHER



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
37.5	-9.2	27.62	15
37.0	-5	24.9	20
35.6	0	22.18	25
33.1	5	19.47	30
30.35	10		

HYDROGEN CHLORIDE – ETHYL ETHER



Solubility A, Mol. %	m.p	Solubility A, Mol. %	m.p
0.0	-117.7	63.71	-87.4
10.84	-118.8	66.67	-87.3
13.07	-119.3	68.30	-89.0
20.32	-124.2	72.61	-93.5
22.67	-127.8	78.94	-106.4
31.96	-126.5	81.24	-104.0
36.34	-115.4	88.80	-113.5
40.45	-110.9	89.45	-115.5
47.87	-100.4	93.92	-123.6
49.03	-100.9	94.30	-123.7
52.82	-107.3	95.35	-120.8
55.16	-94.5	96.13	-120.5
61.76	-83.3	100.0	-112.5



Solubility A, Mol.%	m.p	Solubility A, Mol.%	m.p	Solubility A, Mol.%	m.p
42.5	-102.9	65.6	-82.0	81.5	-96.2
47.3	-100.0	67.6	-83.2	83.6	-92.9
50.0	-98.6	70.0	-84.8	85.0	-94.2
54.2	-97.9	71.6	-97.6		
56.5	-100.4	80.5	-99.6		

№ 3878

[764]

HYDROGEN CHLORIDE -
3 - METHYLBUTANOIC ACID



Solubility A, Wt.%	t
2.41	45.0
3.21	33.8
3.71	28.0
5.21	14.4
6.66	5.8

№ 3880

[764]

HYDROGEN CHLORIDE -
PROPYL ACETATE

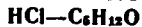


Solubility A, Wt.%	t
8.41	46.4
12.11	34.1
14.71	25.1
16.06	20.8
18.44	12.5
19.47	9.2
20.45	5.7

№ 3882

[764]

HYDROGEN CHLORIDE -
3 - PENTANOL

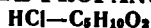


Solubility A, Wt.%	t
24.18	43.4
26.08	33.0
26.64	29.9
28.83	18.0
30.94	7.2

№ 3879

[764]

HYDROGEN CHLORIDE -
ETHYL PROPANOATE



Solubility A, Wt.%	t
7.89	46.2
10.11	38.5
13.28	28.3
15.51	20.8
17.47	14.3
18.65	10.3
19.63	7.0

№ 3881

[764]

HYDROGEN CHLORIDE -
ISOPROPYL ACETATE

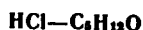


Solubility A, Wt.%	t
7.68	48.3
12.50	34.2
14.34	28.8
17.06	20.6
18.44	16.4
20.63	9.5

№ 3883

[764]

HYDROGEN CHLORIDE -
2 - METHYLBUTANOL



Solubility A, Wt.%	t
23.34	45.2
24.18	39.8
25.88	30.4
27.11	23.7
28.17	18.4
29.34	11.8
30.65	4.7

№ 3884 [1095]
HYDROGEN CHLORIDE –
BENZENE
HCl–C₆H₆

Solubility A, g/l.	<i>t</i>
16.8	20

№ 3885 [115]
HYDROGEN CHLORIDE –
BENZENE
HCl–C₆H₆

Solubility A, Wt.%	<i>t</i>
1.83	20

№ 3886 **HYDROGEN CHLORIDE – CYCLOHEXANE** [197]
HCl–C₆H₁₂

Solubility A, Mol.%	<i>t</i>	<i>p</i>	Solubility A, Mol.%	<i>t</i>	<i>p</i>	Solubility A, Mol.%	<i>t</i>	<i>p</i>
0.28	10	100	0.24	20	100	0.18	40	100
0.55	10	200	0.47	20	200	0.35	40	200
0.83	10	300	0.71	20	300	0.53	40	300
1.11	10	400	0.94	20	400	0.71	40	400
1.31	10	500	1.10	20	500	0.88	40	500
1.66	10	600	1.42	20	600	1.05	40	600
1.94	10	700	1.65	20	700	1.23	40	700
2.22	10	800	1.89	20	800	1.41	40	700

№ 3887 [764]
HYDROGEN CHLORIDE –
ETHYL BUTANOATE
HCl–C₈H₁₈O₂

Solubility A, Wt.%	<i>t</i>
7.73	45.4
8.90	40.6
10.93	33.0
12.91	25.4
16.99	10.2
18.16	6.1

№ 3888 [764]
HYDROGEN CHLORIDE –
BUTYL ACETATE
HCl–C₈H₁₈O₂

Solubility A, Wt.%	<i>t</i>
8.05	45.0
9.57	39.5
12.79	27.5
14.86	19.7
17.27	10.7
18.94	4.8

№ 3889 [764]

HYDROGEN CHLORIDE —
 β -METHYLPROPYL ACETATE
 $\text{HCl} - \text{C}_6\text{H}_{12}\text{O}_2$

Solubility A, Wt. %	<i>t</i>
7.90	44.2
10.73	34.9
12.18	30.5
15.14	20.5
17.04	14.3
19.51	6.1

№ 3890 [764]

HYDROGEN CHLORIDE —
 α -METHYLPROPYL ACETATE
 $\text{HCl} - \text{C}_6\text{H}_{12}\text{O}_2$

Solubility A, Wt. %	<i>t</i>
8.08	44.7
10.96	35.5
12.60	29.9
15.04	21.4
16.93	15.7
20.43	4.1

№ 3891 [402]

HYDROGEN CHLORIDE —
TOLUENE
 $\text{HCl} - \text{C}_7\text{H}_8$

 $t = -78.51$

Solubility A, Mol. %	<i>P</i>
1.278	3.78
1.639	4.87
2.099	6.27

№ 3892 [764]

HYDROGEN CHLORIDE —
BENZYL ALCOHOL
 $\text{HCl} - \text{C}_7\text{H}_8\text{O}$

Solubility A, Wt. %	<i>t</i>
15.04	43.7
16.76	34.6
18.14	27.4
19.54	19.9
21.10	12.1
22.79	5.5

№ 3893 [402]

HYDROGEN CHLORIDE —
HEPTANE
 $\text{HCl} - \text{C}_7\text{H}_{16}$

 $t = -78.51$

Solubility A, Mol. %	<i>P</i>
0.662	29.44
1.210	55.30
1.571	71.28

№ 3894 [764]

HYDROGEN CHLORIDE —
4-HEPTANOL
 $\text{HCl} - \text{C}_7\text{H}_{16}\text{O}$

Solubility A, Wt. %	<i>t</i>
20.55	45.3
21.06	33.0
22.97	21.3
24.25	13.5
24.86	9.9

№ 3895 **HYDROGEN CHLORIDE - [764]**
PHENYL ACETATE
 HCl—C₈H₈O₂

Solubility A, Wt. %	<i>t</i>
3.66	42.0
4.36	36.8
5.61	27.4
6.86	18.4
7.96	10.3
8.95	3.9

№ 3896 **HYDROGEN CHLORIDE - [764]**
2-PHENYLETHANOL
 HCl—C₈H₁₀O

Solubility A, Wt. %	<i>t</i>
14.43	42.7
15.36	36.2
17.00	26.1
18.23	19.2
19.20	13.9
20.77	5.2

№ 3897 **HYDROGEN CHLORIDE - [764]**
OCTANOL
 HCl—C₈H₁₈O

Solubility A, Wt. %	<i>t</i>
15.62	46.6
16.94	38.0
18.08	30.9
18.81	26.0
20.35	16.5
21.03	12.5
22.24	5.3

№ 3898 **HYDROGEN CHLORIDE - [764]**
BENZYL ACETATE
 HCl—C₈H₁₀O₂

Solubility A, Wt. %	<i>t</i>
4.57	42.3
6.26	31.0
7.36	24.5
8.69	16.2
9.57	11.0
10.62	4.8

№ 3899 **HYDROGEN CHLORIDE - [764]**
3-PHENYLPROPANOL
 HCl—C₉H₁₂O

Solubility A, Wt. %	<i>t</i>
13.86	44.6
15.00	37.1
16.05	30.7
16.54	27.4
17.66	20.4
18.72	13.4
19.80	7.0

№ 3900 **HYDROGEN CHLORIDE - [764]**
3, 5, 5-TRIMETHYLHEXANOL
 HCl—C₉H₂₀O

Solubility A, Wt. %	<i>t</i>
15.29	40.5
16.10	35.1
17.17	27.4
18.74	17.3
20.32	6.9

№ 3901 **HYDROGEN CHLORIDE - [764]**
OCTYL ACETATE
 HCl—C₁₀H₂₀O₂

Solubility A, Wt. %	<i>t</i>
5.12	47.6
7.01	37.6
8.52	30.2
10.14	22.2
11.44	15.7
13.66	5.4

HYDROGEN CHLORIDE -- VARIOUS SOLVENTS

HCl— —

 $t = 20$

Solvent		Solubility A, Mol. %
Name	Formula	
Hexane	C_6H_{14}	1.97
Octane	C_8H_{18}	2.96
Dodecane	$C_{12}H_{26}$	3.14
Hexadecane	$C_{16}H_{34}$	2.70
Cyclohexane	C_6H_{12}	1.54
Carbon Tetrachloride	CCl_4	1.81
Benzene	C_6H_6	4.25
Toluene	C_7H_8	5.07
Tetrachloroethylene	C_2Cl_4	1.63
Trichloroethylene	C_2HCl_3	2.06
Pentachloroethane	C_2HCl_5	2.14
Tribromomethane	$CHBr_3$	3.06
Bromoethane	C_2H_5Br	3.48
Chloroform	$CHCl_3$	4.44
Bromobenzene	C_6H_5Br	3.05
Chlorobenzene	C_6H_5Cl	3.15
Trichlorobenzene	$C_6H_3Cl_3$	2.75
Tetrabromoethane	$C_2H_2Br_4$	2.36
Tetrachloroethane	$C_2H_2Cl_4$	2.65
Chloroethylene	C_2H_3Cl	4.57

HYDROGEN CHLORIDE -- VARIOUS SOLVENTS

HCl— —

 $t = 20$

Solvent		Solubility A, g/l.
Name	Formula	
Benzene	C_6H_6	16.91
Carbon Tetrachloride	CCl_4	6.19
Cyclohexane	C_6H_{12}	4.94
Cyclohexene	C_6H_{10}	12.29

HYDROGEN CHLORIDE – VARIOUS SOLVENTS
HCl— —

Solvent		Solubility A, Mol. %	<i>t</i>
Name	Formula		
Tetrachloroethane	C ₂ H ₂ Cl ₄	3.006	15
"	"	2.744	20
"	"	2.481	25
Carbon Tetrachloride	CCl ₄	1.826	15
"	"	1.550	20
"	"	1.277	25
Dichloroethane	C ₂ H ₄ Cl ₂	4.377	15
"	"	3.993	20
"	"	3.576	25
Dibromoethane	C ₂ H ₄ Br ₂	3.754	15
"	"	3.441	20
"	"	3.116	25
Trichloroethane	C ₂ H ₃ Cl ₃	3.463	15
"	"	3.101	20
Pentachloroethane	C ₂ HCl ₅	2.396	15
"	"	2.250	20

IODINE CHLORIDE – CARBON TETRACHLORIDE
ICl—CCl₄

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
1.5	98.5	−26.0	26.8	73.2	17.0	90.6	9.4	23.0
4.7	95.3	−15.7	35.4	64.6	19.0	96.1	3.9	25.0
6.8	93.2	−8.0	46.0	54.0	20.0	98.0	2.0	26.0
9.3	90.7	0.0	56.8	43.2	20.5	100.0	0.0	27.3
14.8	85.2	10.0	75.7	24.3	21.0			
21.6	78.4	15.0	84.9	15.1	22.0			

IODINE CHLORIDE – ACETIC ACID
ICl—C₂H₄O₂

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	16.4	57.9	42.1	0.1	87.2	12.8	23.0
8.7	91.3	10.2	65.7	34.3	10.0	92.7	7.3	25.0
17.8	82.2	0.1	73.3	26.7	15.0	95.1	4.9	26.0
31.6	68.4	−18.2	76.0	24.0	17.0	100.0	0.0	27.3
40.0	60.0	−35.5	80.4	19.6	19.0			
46.8	53.2	−18.2	82.2	17.8	20.0			



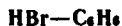
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
0.00	100.00	27.10	25.09	74.91	13.90	39.49	60.51	68.50
1.27	98.73	25.06	26.70	73.30	19.50	50.61	49.39	128.50
2.38	97.62	22.65	28.82	71.18	23.50	62.62	37.38	105.20
4.59	95.41	18.00	30.66	69.34	27.08	71.54	28.46	80.10
6.66	93.34	16.20	33.34	66.66	35.10	87.49	12.51	35.96
8.45	91.55	10.10	33.56	66.44	34.80	92.84	7.16	8.60
11.38	88.62	-9.15	34.10	65.90	29.10	96.02	3.98	-36.20
20.73	79.27	-6.30	35.11	64.89	23.60	98.90	1.10	-48.10
23.89	76.11	5.70	36.31	63.69	28.15	100.00	0.00	-41.50

HYDROGEN BROMIDE -
NITROBENZENE

$t = 25$

Solubility A, Wt.%	<i>p</i>
0.000	0.8
0.208	24.2
0.454	55.2
0.746	86.4

HYDROGEN BROMIDE - BENZENE

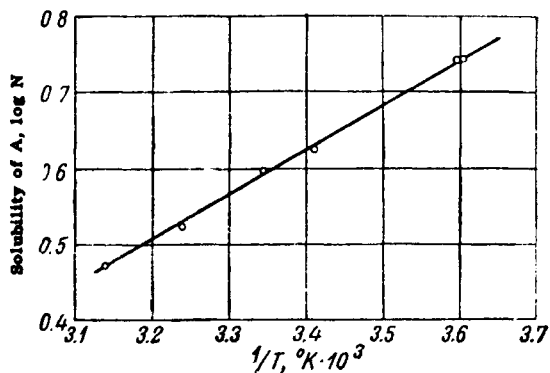


Solubility A, Mol.%	<i>t</i>	<i>p</i>	Solubility A, Mol.%	<i>t</i>	<i>p</i>
0.0612	30	7.6	4.713	30	566.5
0.5459	30	67.2	0.686	50	126.7
1.649	30	154.6	1.697	50	322.5
2.535	30	300.4	2.226	50	405.8
2.913	30	351.3	3.418	50	632.7

№ 3910

[346]

**HYDROGEN BROMIDE -
HEXANE
HBr—C₆H₁₄**

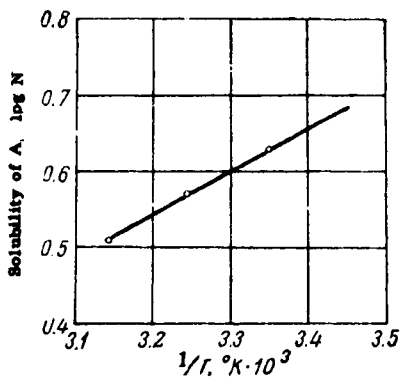


Note. N - content of A, Mol %

№ 3911

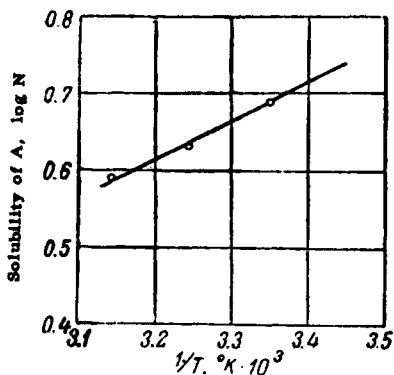
[346]

**HYDROGEN BROMIDE -
OCTANE
HBr—C₈H₁₈**



Note. N - content of A, Mol %

**HYDROGEN BROMIDE -
DECANE**
HBr—C₁₀H₂₂



Note. N - content of A, Mol %

№ 3913

[1005]

**MANGANESE FLUORIDE -
HYDROGEN FLUORIDE**
MnF₂—HF

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.134	99.866	-25.2
0.147	99.853	-7.8
0.164	99.836	11.5

№ 3914

[2044]

**MANGANESE CHLORIDE -
HYDRAZINE**
MnCl₂—N₂H₄

Solubility A, g/l.	<i>t</i>
130	20

№ 3915

[2099]

**MANGANESE CHLORIDE -
SELENIUM OXYCHLORIDE**
MnCl₂—SeOCl₂

Solubility A, Wt. %	<i>t</i>
0.16	25

№ 3916

[1413]

**MANGANESE CHLORIDE -
PYRIDINE**
MnCl₂—C₅H₅N

Solubility A, Wt. %	<i>t</i>
1.26	25

№ 3917 [983]
II MANGANESE IODIDE -
AMMONIA
 $MnI_2 \cdot NH_3$

Solubility A, Wt. %	t
0.02	0

№ 3918 [477]
MANGANESE PERCHLORATE -
2-ETHOXYETHANOL
 $Mn(ClO_4)_2 \cdot 6H_2O - C_4H_{10}O_2$

Solubility A, g/l.	t
1300	20

№ 3919 [477]
MANGANESE PERCHLORATE -
FURFURAL
 $Mn(ClO_4)_2 \cdot 6H_2O - C_5H_4O_2$

Solubility A, g/l.	t
900	20

№ 3920 [2044]
MANGANESE SULFATE -
HYDRAZINE
 $MnSO_4 - N_2H_4$

Solubility A, g/l.	t
10	20

№ 3921 [774]
MANGANESE SULFATE -
METHANOL
 $MnSO_4 - CH_3O$

Solubility A, Wt. %	t
0.190	15
0.114	25
0.064	35
0.043	45
0.029	55

№ 3922 [774]
MANGANESE SULFATE -
ETHANOL
 $MnSO_4 - C_2H_5O$

Solubility A, Wt. %	t
0.012	15
0.014	25
0.021	35

№ 3923 [525]
MANGANESE SULFATE -
ETHYLENE GLYCOL
 $MnSO_4 - C_2H_6O_2$

Solubility A, Wt. %	t
0.5	20

№ 3924 [1469]
ETHYLENEDIAMMONIUM
PENTAFLUOROMANGANATE -
ACETIC ACID
 $MnC_2H_{12}N_2F_5 - C_2H_4O_2$

Solubility A, g/l.	t
1.02	20

№ 3925 [1469]
**ETHYLENEDIAMMONIUM
 PENTAFLUOROMANGANATE –
 ETHANOL**
 $MnC_2H_{10}N_2F_5 - C_2H_6O$

Solubility A, g/l.	<i>t</i>
0.03	20

№ 3927 [1469]
**GUANIDINIUM
 TETRAFLUOROMANGANATE –
 ETHANOL**
 $MnC_2H_{12}N_4F_4 \cdot 3H_2O - C_2H_6O$

Solubility A, g/l.	<i>t</i>
0.29	20

№ 3929 [1469]
**GUANIDINIUM
 PENTAFLUOROMANGANATE
 ETHANOL**
 $MnC_2H_{12}N_4F_5 - C_2H_6O$

Solubility A, g/l.	<i>t</i>
0.13	20

№ 3931 [1469]
**TETRAMETHYLAMMONIUM
 TETRAFLUOROMANGANATE –
 ACETIC ACID**
 $MnCl_4H_{12}NF_4 \cdot 2H_2O - C_2H_4O_2$

Solubility A, g/l.	<i>t</i>
43.26	20

№ 3926 [1469]
**GUANIDINIUM
 TETRAFLUOROMANGANATE –
 ACETIC ACID**
 $MnC_2H_{12}N_4F_4 \cdot 3H_2O - C_2H_4O_2$

Solubility A, g/l.	<i>t</i>
4.49	20

№ 3928 [1469]
**GUANIDINIUM
 PENTAFLUOROMANGANATE –
 ACETIC ACID**
 $MnC_2H_{12}N_4F_5 - C_2H_4O_2$

Solubility A, g/l.	<i>t</i>
0.53	20

№ 3930 [887]
**MANGANESE ACETATE –
 METHANOL**
 $MnCl_4H_6O_4 - CH_4O$

Solubility A, Wt. %	<i>t</i>
4.54	15
10.95	66.2

№ 3932 [1469]
**TETRAMETHYLAMMONIUM
 TETRAFLUOROMANGANATE –
 ETHANOL**
 $MnCl_4H_{12}NF_4 \cdot 2H_2O - C_2H_6O$

Solubility A, g/l.	<i>t</i>
2.89	20

№ 3933 [1469]

**PYRIDINIUM
TETRAFLUOROMANGANATE –
ACETIC ACID**
 $MnC_5H_5NF_4 \cdot H_2O - C_2H_4O_2$

Solubility A, g/l	<i>t</i>
39.26	20

№ 3934 [1469]

**PYRIDINIUM
TETRAFLUOROMANGANATE –
ETHANOL**
 $MnC_5H_5NF_4 \cdot H_2O - C_2H_6O$

Solubility A, g/l.	<i>t</i>
7.29	20

№ 3935 [1469]

**QUINOLINIUM
TETRAFLUOROMANGANATE –
ACETIC ACID**
 $MnC_9H_8NF_4 \cdot 3H_2O - C_2H_4O_2$

Solubility A, g/l.	<i>t</i>
154.56	20

№ 3936 [1469]

**QUINOLINIUM
TETRAFLUOROMANGANATE
ETHANOL**
 $MnC_9H_8NF_4 \cdot 3H_2O - C_2H_6O$

Solubility A, g/l.	<i>t</i>
15.60	20

№ 3937 [1542]

**MANGENESE CAMPHOR-
CARBONATE – METHANOL**
 $MnC_{22}H_{30}O_6 - CH_4O$

Solubility A, g/l.	<i>t</i>
10.5	10.5

№ 3938 [1542]

**MANGENESE CAMPHOR-
CARBONATE – ETHANOL**
 $MnC_{22}H_{30}O_6 - C_2H_6O$

Solubility A, g/l.	<i>t</i>
0.36	9

№ 3939 [1005]

**IRON (II) FLUORIDE –
HYDROGEN FLUORIDE**
 $FeF_2 - HF$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.005	99.995	22.5
0.005	99.995	-4.5
0.006	99.994	11.8

№ 3940 [1005]

**IRON (III) FLUORIDE –
HYDROGEN FLUORIDE**
 $FeF_3 - HF$

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.001	99.999	-25.2
0.003	99.997	-7.8
0.008	99.992	11.9

№ 3941 [1233]

**IRON (III) CHLORIDE —
METHANOL**
FeCl₃—CH₃O

Solubility A, Wt. %	<i>t</i>
56.7	0
58.8	15
61.7	30

№ 3942 [1233]

**IRON (III) CHLORIDE —
ETHANOL**
FeCl₃—C₂H₅O

Solubility A, Wt. %	<i>t</i>
57.6	0
58.5	15
59.1	20.6
59.9	30
60.8	40
63.8	50

№ 3943 [1434]

IRON (III) CHLORIDE — ACETONE
FeCl₃—C₃H₆O

Solubility A, Wt. %	<i>t</i>
38.6	18

№ 3944 [1094]

IRON (III) CHLORIDE — LANOLIN
m.p. = 46j
FeCl₃— —

Solubility A, Wt. %	<i>t</i>
3.99	45

№ 3945 [1413]

**IRON (II) BROMIDE —
PYRIDINE**
FeBr₂—C₅H₅N

Solubility A, g/l.	<i>t</i>
4.9	25

№ 3946 [1225]

**IRON (II) PERCHLORATE —
ETHANOL**
Fe(ClO₄)₂—C₂H₅O

Solubility A, Wt. %	<i>t</i>	<i>d</i> ₄ ²⁰
40.2	20	1.290

№ 3947 [2044]

IRON (II) SULFIDE — HYDRAZINE
FeS—N₂H₄

Solubility A, Wt. %	<i>t</i>
8.3	20

№ 3948 [1772]

**IRON (II) SULFATE —
GLYCOL**
FeSO₄—C₂H₄O₂

Solubility A, Wt. %	<i>t</i>
5.7	20

№ 3949

[2098]

**IRON (III) SULFATE –
ETHANOL**
 $\text{Fe}_2(\text{SO}_4)_3 \cdot 9\text{H}_2\text{O} - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
11.28	25

№ 3950

[867]

**IRON (II) AMMONIUM
OXALATE –
METHANOL**
 $\text{Fe}(\text{NH}_4)_2\text{C}_2\text{O}_8 - \text{CH}_3\text{O}$

Solubility A, Wt. %	<i>t</i>
0.47	15
0.78	66

№ 3951

[887]

**IRON (III) AMMONIUM
OXALATE –
METHANOL**
 $\text{Fe}(\text{NH}_4)_3\text{C}_2\text{O}_8 - \text{CH}_3\text{O}$

Solubility A, Wt. %	<i>t</i>
0.42	15
0.72	66

№ 3952

[863]

**IRON (III) DIHYDROXIDE
FORMATE – ETHANOL**
 $\text{Fe}_2(\text{OH})_2(\text{HCO}_2)_7 \cdot 4\text{H}_2\text{O} - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
4.39	19
5.88	22
7.08	23

№ 3953

[1768]

**IRON (III) N, N - DIETHYLAMINOMETHANETHIONOTHIOATE –
VARIOUS SOLVENTS**
 $(\text{C}_2\text{H}_5\text{NS}_2)_3\text{Fe} - \text{---}$

t = 20

Solvent		Solubility A, g/l.
Name	Formula	
Acetone	$\text{C}_3\text{H}_6\text{O}$	11
Pyridine	$\text{C}_5\text{H}_5\text{N}$	78
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	4
3-Methyl-1-butanol Acetate	$\text{C}_7\text{H}_{14}\text{O}_2$	4
Chloroform	CHCl_3	58
Carbon Tetrachloride	CCl_4	10
Benzene	C_6H_6	38
Ethyl Ether	$\text{C}_4\text{H}_{10}\text{O}$	1

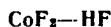
№ 3954

[258]

IRON (III) 9 - OCTADECENOATE – GLYCEROL
 $\text{FeC}_{34}\text{H}_{58}\text{O}_8 - \text{C}_3\text{H}_8\text{O}_3$

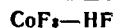
Solubility A, Wt. %	<i>t</i>
0.704	20

№ 3955 [1005]

**COBALT (II) FLUORIDE
HYDROGEN FLUORIDE**

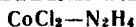
Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.040	99.960	-23.2
0.033	99.967	-4.4
0.036	99.964	14.2

№ 3956 [1005]

**COBALT (III) FLUORIDE -
HYDROGEN FLUORIDE**

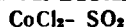
Mutual Solubility Wt.%		<i>t</i>
A	B	
0.272	99.728	-23.8
0.264	99.736	-9.8
0.257	99.743	11.9

№ 3957 [2044]

**COBALT (II) CHLORIDE -
HYDRAZINE**

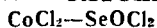
Solubility A, Wt.%	<i>t</i>
1	От +15 до -15

№ 3958 [1016]

**COBALT (II) CHLORIDE -
SULFUR DIOXIDE**

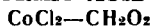
Solubility A, Wt.%	<i>t</i>
0.013	0

№ 3959 [2099]

**COBALT (II) CHLORIDE -
SELENIUM OXYCHLORIDE**

Solubility A, Wt.%	<i>t</i>
0.17	25

№ 3960 [256]

**COBALT (II) CHLORIDE -
FORMIC ACID**

Solubility A, Wt.%	<i>t</i>
5.84	20.5

№ 3961

[1233]

COBALT (II) CHLORIDE - METHANOL

Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
27.8	20	37.1	37
30.3	25	37.1	38
31.7	28	36.8	40
32.8	30	37.1	50
35.4	35		

№ 3962

[1439]

**COBALT (II) CHLORIDE —
ACETONITRILE**
CoCl₂—C₂H₃N

Solubility A, Wt. %	<i>t</i>
3.92	18

№ 3963

[1233]

COBALT (II) CHLORIDE — ETHANOL
CoCl₂—C₂H₆O

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
31.0	0	39.4	50
32.6	10	40.0	60
35.2	20	42.2	70
38.5	30	41.3	80
40.2	40		

№ 3964

[525]

**COBALT (II) CHLORIDE —
GLYCOL**
CoCl₂—C₂H₆O₂

Solubility A, Wt. %	<i>t</i>
10.7	20

№ 3965

[1147]

**COBALT (II) CHLORIDE —
ACETONE**
CoCl₂—C₃H₆O

Solubility A, Wt. %	<i>t</i>
7.94	25

№ 3966

[1186]

**COBALT (II) CHLORIDE —
ACETONE**
CoCl₂—C₃H₆O

Solubility A, Wt. %	<i>t</i>
8.35	0
8.49	22.5

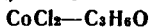
№ 3967

[1434]

**COBALT (II) CHLORIDE —
ACETONE**
CoCl₂—C₃H₆O

Solubility A, Wt. %	<i>t</i>
2.68	18

№ 3968 **COBALT (II) CHLORIDE – ACETONE** [311]



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
4.28	0	3.58	25
3.21	10	4.31	30
2.80	20	5.67	40
3.29	22.5	6.76	50

№ 3969 [1436]

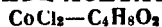
COBALT (II) CHLORIDE – METHYL ACETATE



Solubility A, Wt. %	<i>t</i>	d_{4}^{18}
0.367	18	0.938

№ 3970 [1186]

COBALT (II) CHLORIDE – ETHYL ACETATE



Solubility A, Wt. %	<i>t</i>
0.08	14
0.26	79

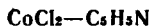
№ 3971 [344]

COBALT (II) CHLORIDE – ETHYL ETHER



Solubility A, Wt. %	<i>t</i>
0.021	20

№ 3972 **COBALT (II) CHLORIDE – PYRIDINE** [1519]

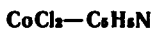


Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0	—48.2	0.754	37.6	2.271	78.2
0.4185	—45	0.950	44.6	2.428	79.8
0.4205	—30	1.020	47.2	3.284	88
0.4208	—19.6	1.110	51	7.251	96.5
0.4310	—10	1.192	55	7.936	98.8
0.4307	0	1.324	60	12.540	106
0.569	23	1.460	64.2	14.165	110
0.575	25	1.572	68		
0.749	34.6	2.037	74.8		

№ 3973

[1772]

**COBALT (II) CHLORIDE -
PYRIDINE**

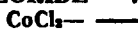


Solubility A, Wt. %	<i>t</i>
0.59	25

№ 3974

[1772]

COBALT (II) CHLORIDE - VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	0.08	14
"	"	0.26	79
Ethyl Ether	$\text{C}_4\text{H}_{10}\text{O}$	0.021	20
Ethylene Glycol	$\text{C}_2\text{H}_6\text{O}_3$	9.67	20
Acetonitrile	$\text{C}_2\text{H}_3\text{N}$	3.92	18
Methyl Acetate	$\text{C}_3\text{H}_6\text{O}_2$	0.36	18
Formic Acid	CH_2O_2	5.83	20.5
Hydrazine	N_2H_4	1.0	15

№ 3975

[1233]

COBALT (II) BROMIDE - METHANOL



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
30.1	20	58.7	50
36.9	30	60.5	60
44.4	35	62.8	70
48.6	37	65.6	80
55.5	40		

№ 3976

[1233]

**COBALT (II) BROMIDE -
ETHANOL**

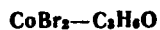


Solubility A, Wt. %	<i>t</i>
41.3	10
43.5	20
45.9	30
48.9	40
51.2	50
54.7	60
55.9	70
56.4	80

№ 3977

[311]

COBALT (II) BROMIDE - ACETONE



Solubility A, Wt. %	<i>t</i>
35.1	0
35.2	10
39.4	25
40.7	27
41.0	30
48.1	40

№ 3978 [1436]

**COBALT (II) BROMIDE –
METHYL ACETATE**
 $\text{CoBr}_2 \cdot \text{C}_2\text{H}_5\text{O}_2$

Solubility A, Wt. %	<i>t</i>	d_4^{18}
9.34	18	1.013

№ 3979 [1016]

**COBALT (II) IODIDE –
SULFUR DIOXIDE**
 $\text{Co I}_2 \cdot \text{SO}_2$

Solubility A, Wt. %	<i>t</i>
0.380	0

№ 3980 [1016]

**COBALT (II) THIOCYANATE –
SULFUR DIOXIDE**
 $\text{Co}(\text{CNS})_2 \cdot \text{SO}_2$

Solubility A, Wt. %	<i>t</i>
0.076	0

№ 3981 [477]

**COBALT (II) PERCHLORATE –
2-ETHOXYETHANOL**
 $\text{Co}(\text{ClO}_4)_2 \cdot \text{C}_4\text{H}_{10}\text{O}_2$

Solubility A, g/l.	<i>t</i>
1100	20

№ 3982 [477]

**COBALT (II) PERCHLORATE –
FURFURAL**
 $\text{Co}(\text{ClO}_4)_2 \cdot \text{C}_5\text{H}_4\text{O}_2$

Solubility A, g/l.	<i>t</i>
600	20

№ 3983 [365]

COBALT (II) NITRITE – PYRIDINE
 $\text{Co}(\text{NO}_2)_2 \cdot \text{C}_5\text{H}_5\text{N}$

Solubility A, Wt. %	<i>t</i>
0.51	0
0.74	10
1.02	20
1.25	25

№ 3984 [526]

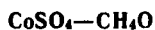
**COBALT (II) NITRATE –
GLYCOL**
 $\text{Co}(\text{NO}_3)_2 \cdot \text{C}_2\text{H}_4\text{O}_2$

Solubility A, Wt. %	<i>t</i>
80	20

№ 3985

[774]

**COBALT (II) SULFATE -
METHYL ALCOHOL**

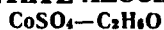


Solubility A, Wt. %	<i>t</i>
0.300	15
0.416	25
0.417	35
0.371	45
0.266	55

№ 3986

[774]

**COBALT (II) SULFATE -
ETHYL ALCOHOL**

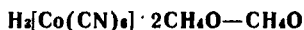


Solubility A, Wt. %	<i>t</i>
0.017	15
0.018	25
0.023	45
0.026	55

№ 3987

[961]

**TRIHYDROGEN HEXACYANOCOBALTATE ·
2-METHANOL - METHANOL**

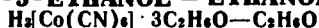


Solubility A, g/l.	<i>t</i>	Solubility A, g/l.	<i>t</i>
282	-10	945	30
341	-5	1160	45
409	-2	1400	53
499	5	1800	60
643	15	2070	65
799	25		

№ 3988

[961]

**TRIHYDROGEN
HEXACYANOCOBALTATE
-3-ETHANOL - ETHANOL**

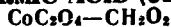


Solubility A, g/l.	<i>t</i>
24.7	0
39.9	25
62.9	45
72.7	55
95.0	65
126.8	75

№ 3989

[256]

**COBALT (II) OXALATE -
FORMIC ACID (95%) ·**

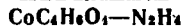


Solubility A, Wt. %	<i>t</i>
0.04	19.8

№ 3990

[2044]

**COBALT (II) ACETATE -
HYDRAZINE**



Solubility A, g/l.	<i>t</i>
10	20

№ 3991

[887]

**COBALT (II) ACETATE -
METHANOL**
 $\text{CoC}_4\text{H}_8\text{O}_4 - \text{CH}_3\text{O}$

Solubility A, Wt. %	<i>t</i>
1.47	15
5.21	66.4

№ 3992

[1768]

**COBALT (III) N, N - DIETHYLAMINOMETHANE -
THIONO THIOLATE - VARIOUS SOLVENTS**
 $(\text{C}_2\text{H}_5\text{NS}_2)_2\text{Co} - \text{---}$

t = 20

Solvent		Solubility A, g/l.
Name	Formula	
Acetone	$\text{C}_3\text{H}_6\text{O}$	5
Pyridine	$\text{C}_5\text{H}_5\text{N}$	53
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	3
3 - Methyl - 1 - butanol Acetate	$\text{C}_7\text{H}_{14}\text{O}_2$	1
Chloroform	CHCl_3	75
Carbon Tetrachloride	CCl_4	4
Benzene	C_6H_6	30

№ 3993

[1005]

**NICKEL (II) FLUORIDE -
HYDROGEN FLUORIDE**
 $\text{NiF}_2 - \text{HF}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.035	99.965	-25.0
0.040	99.960	-9.7
0.037	99.963	11.9

№ 3994

[2044]

**NICKEL (II) CHLORIDE -
HYDRAZINE**
 $\text{NiCl}_2 - \text{N}_2\text{H}_4$

Solubility A, g/l.	<i>t</i>
8	20

№ 3995

[411]

**NICKEL (II) CHLORIDE -
ETHANOL**
 $\text{NiCl}_2 \cdot 7\text{H}_2\text{O} - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
2.11	17
1.38	3

№ 3996 [344]

**NICKEL (II) CHLORIDE —
ETHANOL**
 $\text{NiCl}_2 \cdot \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
9.13	20
34.94*	20

№ 3997 [525]

**NICKEL (II) CHLORIDE —
GLYCOL**
 $\text{NiCl}_2 \cdot \text{C}_2\text{H}_4\text{O}_2$

Solubility A, Wt. %	<i>t</i>
16.2	20

№ 3998 [1233]

**NICKEL (II) BROMIDE —
METHANOL**
 $\text{NiBr}_2 \cdot \text{CH}_3\text{O}$

Solubility A, Wt. %	<i>t</i>
24.8	10
26.0	20
27.6	30
30.2	40
32.9	50
34.9	60
37.3	70

№ 3999 [311]

NICKEL (II) BROMIDE — ACETONE
 $\text{NiBr}_2 \cdot \text{C}_3\text{H}_6\text{O}$

Solubility A, Wt. %	<i>t</i>
1.63	0
1.14	10
0.80	20
0.55	30
0.36	40
0.27	50

№ 4000 [477]

**NICKEL (II) PERCHLORATE —
2-ETHOXYETHANOL**
 $\text{Ni}(\text{ClO}_4)_2 \cdot \text{C}_4\text{H}_{10}\text{O}_2$

Solubility A, g/l.		<i>t</i>
2-Hydrate	6-Hydrate	
350	1000	20

№ 4001 [477]

**NICKEL (II) PERCHLORATE —
FURFURAL**
 $\text{Ni}(\text{ClO}_4)_2 \cdot \text{C}_5\text{H}_4\text{O}_2$

Solubility A, g/l.		<i>t</i>
2-Hydrate	6-Hydrate	
20	60	20

№ 4002 [2044]

NICKEL (II) NITRATE — HYDRAZINE
 $\text{Ni}(\text{NO}_3)_2 \cdot \text{N}_2\text{H}_4$

Solubility A, g/l.	<i>t</i>
30	20

№ 4003 [525]

**NICKEL (II) NITRATE —
GLYCOL**
 $\text{Ni}(\text{NO}_3)_2 \cdot \text{C}_2\text{H}_4\text{O}_2$

Solubility A, Wt. %	<i>t</i>
7.5	20

* 6-Hydrate

№ 4004

[774]

**NICKEL (II) SULFATE -
METHANOL**
 $\text{NiSO}_4 \cdot \text{CH}_3\text{O}$

Solubility A, Wt. %	<i>t</i>
0.061	15
0.081	25
0.110	35
0.157	45
0.222	55

№ 4005

[411]

**NICKEL (II) SULFATE -
ETHANOL**
 $\text{NiSO}_4 \cdot 7\text{H}_2\text{O} - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
1.38	4
2.15	17

№ 4006

[774]

**NICKEL (II) SULFATE -
ETHANOL**
 $\text{NiSO}_4 - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>
0.017	15
0.020	35
0.022	45
0.025	55

№ 4007

[525]

**NICKEL (II) SULFATE -
GLYCOL**
 $\text{NiSO}_4 - \text{C}_2\text{H}_4\text{O}_2$

Solubility A, g/l.	<i>t</i>
97	20

№ 4008

[570]

**NICKEL (II) ACETATE -
ACETIC ACID**
 $\text{Ni}(\text{C}_2\text{H}_3\text{O}_2)_2 - \text{C}_2\text{H}_4\text{O}_2$

Solubility A, Mol. %	<i>t</i>
12.37	30

№ 4009

[1768]

**NICKEL (II) N, N-DIETHYLAMINOMETHANE-
THIONOETHIOLATE - VARIOUS SOLVENTS**
 $(\text{C}_2\text{H}_5\text{N}(\text{S}_2))_2\text{Ni} - \text{---}$

t = 20

Solvent		Solubility A, g/l.
Name	Formula	
Acetone	$\text{C}_3\text{H}_6\text{O}$	3
Pyridine	$\text{C}_5\text{H}_5\text{N}$	11
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	1
Chloroform	CHCl_3	28
Carbon Tetrachloride	CCl_4	1
Benzene	C_6H_6	3

№ 4010 [2044]

**PALLADIUM CHLORIDE —
HYDRAZINE**
 $\text{PdCl}_2\text{—N}_2\text{H}_4$

Solubility A, g/l	<i>t</i>
10	20

№ 4011 [227]

**OSMIUM TETROXIDE —
CARBON TETRACHLORIDE**
 $\text{OsO}_4\text{—CCl}_4$

Solubility A, Wt. %	<i>t</i>
79	25

№ 4012 [2044]

**PLATINUM CHLORIDE —
HYDRAZINE**
 $\text{PtCl}_2\text{—N}_2\text{H}_4$

Solubility A, g/l.	<i>t</i>
10	20

№ 4013 [36]

**PLATINUM DIACETYLACETONATE —
ETHANOL**
 $\text{PtC}_{10}\text{H}_{14}\text{O}_4\text{—C}_2\text{H}_5\text{O}$

Solubility A, g/l.	<i>t</i>
2.547	25

№ 4014 [36]
**PLATINUM DIACETYLACETONATE —
BENZENE**
 $\text{PtC}_{10}\text{H}_{14}\text{O}_4\text{—C}_6\text{H}_6$

Solubility A, g/l.	<i>t</i>
15.523	25

№ 4015 [1005]

**THORIUM FLUORIDE —
HYDROGEN FLUORIDE**
 $\text{ThF}_4\text{—HF}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.001	99.999	-22.5
0.002	99.998	-4.5
0.006	99.994	11.8

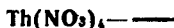
№ 4016 [1772]

**THORIUM NITRATE —
ETHYL ETHER**
 $\text{Th}(\text{NO}_3)_4\text{—C}_4\text{H}_{10}\text{O}$

Solubility A, g/l.	<i>t</i>
204.0	20
66.7*	20

* Salt dehydrated at 150°.

THORIUM NITRATE - VARIOUS SOLVENTS



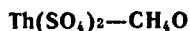
$$t=25$$

Solvent		Solubility A, Wt. %
Name	Formula	
2, 4 - Dimethyl - 3 - pentanone	$\text{C}_7\text{H}_{14}\text{O}$	20.84
Acetophenone	$\text{C}_8\text{H}_8\text{O}$	37.06
Propiophenone	$\text{C}_9\text{H}_{10}\text{O}$	18.92
4 - Methyl - 2 - pentanone	$\text{C}_6\text{H}_{12}\text{O}$	42.20
2 - Heptanone	$\text{C}_7\text{H}_{14}\text{O}$	36.68
2 - Octanone	$\text{C}_8\text{H}_{16}\text{O}$	31.06
3 - Methyl - 1 - butanol	$\text{C}_5\text{H}_{12}\text{O}$	37.82
Hexanol	$\text{C}_6\text{H}_{14}\text{O}$	33.38
Acetone	$\text{C}_3\text{H}_6\text{O}$	59.3
2 - Butanone	$\text{C}_4\text{H}_8\text{O}$	55.7
Ethanol	$\text{C}_2\text{H}_6\text{O}$	56.0
2 - Chloroethanol	$\text{C}_2\text{H}_5\text{OCl}$	44.4
1 - Propanol	$\text{C}_3\text{H}_8\text{O}$	47.0
2 - Propen - 1 - ol	$\text{C}_3\text{H}_6\text{O}$	45.8
2 - Propanol	$\text{C}_3\text{H}_8\text{O}$	44.4
1 - Butanol	$\text{C}_4\text{H}_{10}\text{O}$	44.6
2 - Methyl - 1 - propanol		39.9
Cyclohexanol	$\text{C}_6\text{H}_{12}\text{O}$	35.9
Benzyl Alcohol	$\text{C}_7\text{H}_8\text{O}$	20.9
Ethyl Ether	$\text{C}_4\text{H}_{10}\text{O}$	42.8
Butoxybutane	$\text{C}_8\text{H}_{18}\text{O}$	2.7
3 - Methyl - 1 - (γ - methylbutoxy)butane	$\text{C}_{10}\text{H}_{22}\text{O}$	1.1
Dioxane	$\text{C}_4\text{H}_8\text{O}_2$	42.9
Ethyl Formate	$\text{C}_3\text{H}_6\text{O}_2$	32.5
Methyl Acetate	$\text{C}_3\text{H}_6\text{O}_2$	50.0
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	43.4
Ethyl Propanoate	$\text{C}_5\text{H}_{10}\text{O}_2$	67.1
Ethyl Butanoate	$\text{C}_6\text{H}_{12}\text{O}_2$	56.9
Ethyl Hexanoate	$\text{C}_8\text{H}_{16}\text{O}_2$	28.6
Ethyl Benzoate	$\text{C}_9\text{H}_{12}\text{O}_2$	6.3
Ethyl Phenylacetate	$\text{C}_{10}\text{H}_{12}\text{O}_2$	18.4
Ethyl Propenoate	$\text{C}_5\text{H}_8\text{O}_2$	12.6
Methyl Salicylate	$\text{C}_8\text{H}_8\text{O}_3$	2.4
Ethylene Glycol	$\text{C}_2\text{H}_6\text{O}_2$	44.4
Diethylene Glycol	$\text{C}_4\text{H}_{10}\text{O}_3$	47.3
1, 6 - Hexanediol	$\text{C}_6\text{H}_{14}\text{O}_2$	13.5
Glycerol	$\text{C}_3\text{H}_8\text{O}_3$	45.6
1 - Ethoxy - 2 - ethanol	$\text{C}_4\text{H}_{10}\text{O}_2$	54.6
1 - Methoxy - 2 - ethanol	$\text{C}_3\text{H}_8\text{O}_2$	59.2
Cyclohexanone	$\text{C}_6\text{H}_{10}\text{O}$	28.5
Ethyl Carbonate	$\text{C}_5\text{H}_{10}\text{O}_3$	8.9
Isoquinoline	$\text{C}_9\text{H}_7\text{N}$	10.5

№ 4018

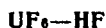
[774]

**THORIUM SULFATE -
METHANOL**



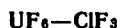
Solubility A, Wt. %	<i>t</i>
0.029	15
0.024	25
0.019	35
0.014	45
0.010	55

№ 4019 URANIUM HEXAFLUORIDE - HYDROGEN FLUORIDE [1877]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
10.28	89.72	69.0	39.38	60.62	98.8	62.03	37.97	93.5
12.20	87.80	78.0	49.97	50.03	100.5	64.49	35.51	87.5
16.29	83.71	83.0	53.14	46.86	99.9	66.70	33.30	83.0
19.85	80.15	87.9	55.40	44.60	95.7	67.13	32.87	84.0
23.39	76.61	90.3	57.09	42.91	95.0	69.35	30.65	79.5
28.58	71.42	97.2	58.45	41.55	98.0	72.96	27.04	76.0
29.13	70.87	93.2	61.35	38.65	90.5			

№ 4020 URANIUM HEXAFLUORIDE - CHLORINE TRIFLUORIDE [2047]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
2.9	97.1	-30	33.0	67.0	30
4.4	95.6	-20	48.2	51.8	40
6.8	93.2	-10	67.7	32.3	50
10.5	89.5	0	90.0	10.0	60
15.6	84.4	10	100.0	0.0	64
22.3	77.7	20			

UF₆-BrF₃

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	8.7	38.2	61.8	55.0	72.9	27.1	59.2
2.6	97.4	7.1	41.1	58.9	55.1	76.8	23.2	59.6
6.0	94.0	16.3	45.4	54.6	55.9	80.2	19.8	60.0
8.5	91.5	27.1	48.7	51.3	56.5	81.8	18.2	60.1
13.4	86.6	38.9	51.9	48.1	56.7	83.1	16.9	60.5
19.3	80.7	46.0	53.9	46.1	56.9	85.7	14.3	60.0
19.5	80.5	46.5	56.3	43.7	57.3	88.8	11.2	60.9
24.8	75.2	48.8	58.8	41.2	57.7	90.4	9.6	61.4
29.1	70.9	52.2	63.1	36.9	57.9	93.4	6.6	61.7
30.2	69.8	51.9	67.0	33.0	58.4	96.4	3.6	62.5
35.6	64.4	53.3	69.5	30.5	58.6	100.0	0.0	64.0

№ 4022 URANIUM HEXAFLUORIDE - BROMINE PENTAFLUORIDE [708]

UF₆-BrF₅

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.00	100.00	-61.3	25.18	74.82	7.7	81.23	18.77	53.3
5.78	94.22	-49.5	34.35	65.65	18.5	84.67	15.33	54.4
7.51	92.49	-40.1	41.68	58.32	26.7	89.52	10.48	57.3
10.53	89.47	-28.7	50.07	49.93	34.0	92.32	7.68	59.1
13.32	86.68	-18.3	56.81	43.19	39.0	100.00	0.00	63.9
18.81	81.19	-3.0	66.40	33.60	45.6			

UF₆-Br₂

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.00	100.00	-7.3	19.17	80.83	47.2	79.70	20.30	54.6
1.23	98.77	0.0	34.53	65.47	48.6	84.16	15.84	56.1
2.21	97.79	10.3	48.96	51.04	48.7	85.01	14.99	56.9
3.08	96.92	19.9	54.71	45.29	50.0	89.94	10.06	58.3
4.84	95.16	31.5	61.70	38.30	50.7	93.66	6.34	60.7
7.68	92.32	39.3	71.78	28.22	52.8	100.00	0.00	63.9
13.16	86.84	45.6	74.80	25.20	52.8			

№ 4024

[523]

**URANYL NITRATE —
ETHANOL (85%)**
 $UO_2(NO_3)_2 \cdot 6H_2O - C_2H_5O$

Solubility A, Wt.%	<i>t</i>
3.19	12

№ 4025

[523]

**URANYL NITRATE —
ACETONE**
 $UO_2(NO_3)_2 \cdot 6H_2O - C_3H_6O$

Solubility A, Wt.%	<i>t</i>
1.48	12

№ 4026

[838]

**URANYL NITRATE —
ETHYL ETHER**
 $UO_2(NO_3)_2 - C_4H_{10}O$

Solubility A, Wt.%	<i>t</i>
0.95	20

№ 4027

URANYL SULFATE — VARIOUS SOLVENTS

[524]



Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Water	H ₂ O	15.9	13.2
"	"	17.0	15.5
Ethanol 16.2%	C ₂ H ₆ O	10.9	10
Ethanol 85%	"	2.5	16
Conc. HCl	HCl	23.1	13
Conc. HBr. (d = 1.21)	HBr	14.4	12
Conc. Nitric Acid	HNO ₃	8.3	12
Conc. Sulfuric Acid (d = 1.138)	H ₂ SO ₄	19.6	13
Blend of Nitric and Hydrochloric Acids 1 : 1	HCl + HNO ₃	15.2	16
Selenic Acid (d = 1.4)	H ₂ SeO ₄	21.2	15

№ 4028

[887]

**URANYL ACETATE —
METHANOL**
 $UO_2C_4H_6O_4 - CH_3O$

Solubility A, Wt.%	<i>t</i>
0.73	15
0.82	66

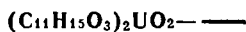
№ 4029

[887]

**URANYL ACETATE —
ACETONE**
 $UO_2C_4H_6O_4 - C_3H_6O$

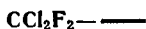
Solubility A, Wt.%	<i>t</i>
2.31	15

**URANYL CAMPHOR CARBONATE —
VARIOUS SOLVENTS**



Solvent		Solubility A, g/l.	t
Name	Formula		
Ethyl Ether	$C_4H_{10}O$	22.4	7
Acetone	C_3H_6O	13.5	7
Ethyl Acetate	$C_4H_8O_2$	52.6	7
Benzene	C_6H_6	79.1	7
Chloroform	$CHCl_3$	61.0	7
Olive Oil	—	5.84	15

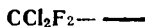
DICHLORODIFLUOROMETHANE — VARIOUS SOLVENTS



t = 32

Solvent		Solubility A, g/cc B (at p = 2693)
Name	Formula	
Diethylene Glycol Monoethyl Ether Acetate	$C_8H_{16}O_4$	0.258
Diethylene Glycol Diethyl Ether	$C_8H_{16}O_3$	0.38
Tetraethylene Glycol Diethyl Ether	$C_{12}H_{26}O_5$	0.258
Diethylene Glycol Monoethyl Ether Methoxyacetate	$C_9H_{18}O_5$	0.162
4 - Methyl- 2 - pentanol Acetate	$C_8H_{16}O_2$	0.52
2, 3 - Di- β' - ethoxy- β ethoxydioxane	$C_{12}H_{24}O_6$	0.196
3 - Chloropropoxy - 3 - chloropropane	$C_6H_{12}OCl_2$	0.22
2 - (1 - Chloroisopropoxy) - 1 - chloropropane	$C_6H_{12}OCl_2$	0.258
α - Fluoronaphthalene	$C_{10}H_7F$	0.236
Trichlorobenzene	$C_6H_3Cl_3$	0.204

DICHLORODIFLUOROMETHANE — VARIOUS SOLVENTS



t = 4.5

Solvent		Solubility A, Mol. %
Name	Formula	
1 - Hexanol	$C_6H_{14}O$	19.7
Cyclohexanol	$C_6H_{12}O$	12.3
Ethylene Glycol	$C_2H_6O_2$	0.602
1, 3 - Propanediol	$C_3H_8O_2$	1.38
Methoxycyclohexane	$C_7H_{14}O$	38.0

Solvent		Solubility A, Mol. %
Name	Formula	
Methoxybenzene	C_7H_8O	22.0
Tetraethylene Glycol Dimethyl Ether	$C_{10}H_{22}O_5$	29.0
Acetic Acid	$C_2H_4O_2$	13.3
Propanoic Acid	$C_3H_6O_2$	22.3
Ethyl Dodecanoate	$C_{14}H_{28}O_2$	43.0
Ethyl Octanoate	$C_{10}H_{20}O_2$	40.6
Heptaldehyde	$C_7H_{14}O$	32.7
Cyclohexanone	$C_6H_{10}O$	23.6
2, 4- Pentanedione	$C_5H_8O_2$	24.2
2, 5- Hexanedione	$C_6H_{10}O_2$	14.7
Cyclohexylamine	$C_6H_{13}N$	32.2
Aniline	C_6H_7N	4.42
Dimethylcyclohexylamine	$C_8H_{17}N$	37.7
Dimethylaniline	$C_8H_{11}N$	20.8
Quinoline	C_9H_7N	11.3
N- Methylacetamide	C_3H_7NO	9.84
N, N- Dimethylacetamide	C_4H_9NO	18.0
Pentanenitrile	C_5H_9N	24.5
2- Butanone Oxime	C_4H_9NO	19.0
n- Decane	$C_{10}H_{22}$	41.5
Mesitylene	C_9H_{12}	34.6
Bromobenzene	C_6H_5Br	21.4
n- Bromohexane	$C_6H_{13}Br$	33.3

№ 4033

[2131]

TRICHLOROFLUOROMETHANE – VARIOUS SOLVENTS

 CCl_3F — — $t = 32$

Solvent		Solubility A, g/cc B ($P=364$)
Name	Formula	
Diethylene Glycol Monoethyl Ether Acetate	$C_8H_{16}O_4$	0.286
Tetraethylene Glycol Diethyl Ether	$C_{12}H_{26}O_5$	0.216

№ 4034

[532]

TRICHLOROFLUOROMETHANE – VARIOUS SOLVENTS

 CCl_3F — — $t = 4.5$

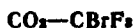
Solvent		Solubility A, Mol. %
Name	Formula	
1- Hexanol	$C_6H_{14}O$	17.6
Cyclohexanol	$C_6H_{12}O$	14.3
Ethylene Glycol	$C_2H_6O_2$	0.677

Solvent		Solubility A, Mol. %
Name	Formula	
1, 3- Propanediol	$C_3H_8O_2$	1.68
Methoxycyclohexane	$C_7H_{14}O$	34.6
Methoxybenzene	C_7H_8O	24.4
Tetraethylene Glycol	$C_{10}H_{22}O_5$	33.6
Dimethyl Ether		
Acetic Acid	$C_2H_4O_2$	9.86
Propanoic Acid	$C_3H_6O_2$	18.5
Ethyl Dodecanoate	$C_{14}H_{28}O_2$	41.2
Ethyl Octanoate	$C_{10}H_{20}O_2$	37.3
Heptaldehyde	$C_7H_{14}O$	30.4
Cyclohexanone	$C_6H_{10}O$	25.7
2, 4 - Pentanedione	$C_5H_8O_2$	22.6
2, 5 - Hexanedione	$C_6H_{10}O_2$	17.0
Aniline	C_6H_7N	7.06
Dimethylcyclohexylamine	$C_8H_{17}N$	37.2
Dimethylaniline	$C_8H_{11}N$	25.2
Quinoline	C_8H_7N	17.7
N - Methylacetamide	C_3H_7NO	12.0
N, N - Dimethylacetamide	C_4H_9NO	17.1
Nitrobutane	$C_4H_9NO_2$	21.0
2 - Butanone Oxime	C_4H_9NO	18.2
n - Decane	$C_{10}H_{22}$	35.7
Mesitylene	C_9H_{12}	33.2
Bromobenzene	C_6H_5Br	25.5
n - Bromohexane	$C_6H_{13}Br$	32.2

№ 4035

CARBON DIOXIDE - TRIFLUOROBROMOMETHANE

[2003]

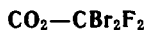


Mutual Solubility, Mol. %		<i>t</i>	<i>P</i>	Mutual Solubility, Mol. %		<i>t</i>	<i>P</i>
A	B			A	B		
0.0	100.0	-168.0	50	22.2	77.8	-92.7	492
0.8	99.2	-154.2	45	33.8	66.2	-83.7	790
1.1	98.9	-150.9	—	46.7	53.3	-76.9	1217
2.0	98.0	-137.0	—	60.0	40.0	-71.0	1870
4.9	95.1	-121.8	84	80.0	20.0	-62.9	2850
10.0	90.0	-107.6	210	100.0	0.0	-56.6	3885

№ 4036

CARBON DIOXIDE – DIBROMODIFLUOROMETHANE

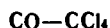
[2003]



Mutual Solubility, Mol.%		<i>t</i>	<i>P</i>	Mutual Solubility, Mol.%		<i>t</i>	<i>P</i>
A	B			A	B		
0.0	100.0	—141.6	5	28.2	71.8	—80.7	789
0.7	99.3	—141.4	4	41.7	58.3	—74.6	1110
2.3	97.7	—127.7	4	47.2	52.8	—71.7	1450
5.0	95.0	—114.8	28	60.0	40.0	—67.3	1930
9.7	90.3	—104.0	114	80.0	20.0	—61.4	2890
16.2	83.8	—93.2	277	100.0	0.0	—56.6	3885
20.1	79.9	—88.2	381				

№ 4037

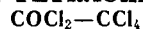
[964]

**CARBON MONOXIDE –
CARBON TETRACHLORIDE**

Solubility A cc/cc B	<i>t</i>
0.1837	—19.9
0.1977	0.0
0.2142	20.0
0.2314	40.1
0.2528	60.1

№ 4038

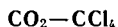
[72]

**PHOSGENE –
CARBON TETRACHLORIDE***t* = 20

Mutual Solubility, Wt.%		<i>P</i>
A	B	
5.40	94.60	145.0
14.95	85.05	341.0
19.77	80.23	413.8
29.67	70.33	565.2
35.45	64.55	637.8
40.21	59.79	695.8

№ 4039

[964]

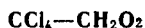
**CARBON DIOXIDE –
CARBON TETRACHLORIDE**

Solubility A cc/cc B	<i>t</i>
2.668	25



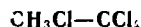
Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
20.00	80.00	—68.0	56.40	43.60	—73.1	82.76	17.24	—54.6
24.94	75.06	—69.0	68.58	31.42	—67.8	87.59	12.41	—49.65
37.96	62.04	—73.4	73.85	26.15	—63.05	94.38	5.62	—36.35
46.52	53.48	—77.7	79.18	20.82	—58.3	100.00	0.00	—22.9

**CARBON TETRACHLORIDE —
FORMIC ACID**



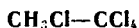
Solubility A, Wt. %	<i>t</i>
6.49	25

**CHLOROMETHANE —
CARBON TETRACHLORIDE**



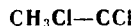
Solubility A cc/cc B	<i>t</i>
38.0	20

**CHLOROMETHANE —
CARBON TETRACHLORIDE**



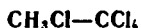
Solubility A cc/cc B	<i>t</i>
115.4	—5
87.6	0
68.7	5
56.2	10
45.9	15
38.0	20

**CHLOROMETHANE —
CARBON TETRACHLORIDE**



$$t = 25$$

Solubility A, Mol. %	<i>p</i>
0.00	112.4
2.80	256.9
6.39	431.4
9.96	603.7
13.28	758.1
16.23	890.5
19.26	1023.0

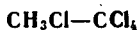


Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A			Solubility A		
			cc/cc B	<i>t</i>	<i>p</i>	cc/cc B	<i>t</i>	<i>p</i>
10	—10	100	6	0	100	5	20	100
22	—10	200	12	0	200	10	20	200
36	—10	300	19	0	300	14	20	300
52	—10	400	30	0	400	19	20	400
71	—10	500	42	0	500	24	20	500
95	—10	600	56	0	600	30	20	600
124	—10	700	71	0	700	36	20	700
145	—10	760	83	0	760	38	20	760

№ 4046

[116]

**CHLOROMETHANE –
CARBON TETRACHLORIDE**

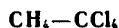


Solubility A cc/cc B	<i>t</i>
35.76	20

№ 4047

[964]

**METHANE –
CARBON TETRACHLORIDE**



Solubility A cc/cc B	<i>t</i>
0.8109	—19.8
0.7621	0
0.7271	20
0.7031	40
0.6876	60

№ 4048

CARBON TETRACHLORIDE – PENTACHLOROETHANE

[1990]

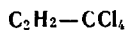


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
10.66	89.34	—37.2	46.75	53.25	—62.8	75.67	24.33	—53.6
17.48	82.52	—43.4	55.02	44.98	—66.5	84.32	15.68	—45.4
27.82	72.18	—49.8	58.33	41.67	—68.4	90.09	9.91	—36.4
39.41	60.59	—55.4	63.21	36.79	—63.75	100.0	0.0	—22.9

№ 4049

[964]

**ACETYLENE –
CARBON TETRACHLORIDE**

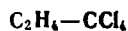


Solubility A cc/cc B	<i>t</i>
3.967	0
3.717	5
3.482	10
3.278	15
3.102	20
2.932	25
2.778	30
2.499	40

№ 4050

[964]

**ETHYLENE –
CARBON TETRACHLORIDE**



Solubility A cc/cc B	<i>t</i>
5.027	0
4.689	5
4.415	10
4.159	15
3.922	20
3.711	25
3.511	30
3.341	35
3.163	40

№ 4051

CHLOROETHANE – CARBON TETRACHLORIDE

[69]

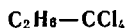


Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>
16	—10	100	40	0	200	30	20	240
30	—10	150	58	0	240	40	20	300
58	—10	200	114	0	300	70	20	400
148	—10	240	10	20	100	118	20	500
10	0	100	16	20	150	208	20	600
16	0	150	22	20	200	300	20	640

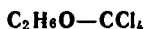
№ 4052

[964]

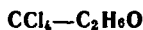
**ETHANE –
CARBON TETRACHLORIDE**



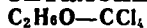
Solubility A cc/cc B	<i>t</i>
7.648	0
6.604	10
5.716	20
5.366	25
5.016	30
4.446	40



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0	100	—24	60	40	—50
20	80	—28	70	30	—58
40	60	—36	80	20	—76
50	50	—42	89	11	—118
55.4	44.6	—47.6	100	0	—114.5

CARBON TETRACHLORIDE —
ETHANOL

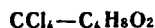
Mutual Solubility, wt.%		m.p.
A	B	
26.4	73.6	—58.5
31.7	68.3	—52.5
49.1	50.9	—39
50.8	49.2	—38
57.7	42.3	—35
70.8	29.2	—30

METHOXYMETHANE —
CARBON TETRACHLORIDE*t* = 25

Solubility A, Mol.%	<i>p</i>
0.000	112.4
0.030	237.6
0.0596	360.1
0.0852	464.8
0.1217	612.8
0.1633	782.4
0.1993	932.7
0.2330	1072.9

TRINITROTRIMETHYLENETRIAMINE —
CARBON TETRACHLORIDE

Solubility A, wt.%	<i>t</i>
0.005	50
0.007	60
0.015	70

CARBON TETRACHLORIDE —
ETHYL ACETATE

Mutual Solubility, Mol.%		m.p.
A	B	
0.0	100.0	—83.6
16.5	83.5	—90
33.3	66.7	—86
42.0	58.0	—87
86.1	13.9	—47.8

№ 4058 [2116]

**CARBON TETRACHLORIDE -
ETHYL ETHER**
 $\text{CCl}_4 - \text{C}_2\text{H}_5\text{O}$

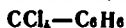
Mutual Solubility, Mol. %		m.p
A	B	
0.0	100.0	-116.2
5.4	94.6	-118.5
12.5	87.5	-122.5
18.0	82.0	-107
89.0	11.0	-48.2
100.0	0.0	-22.8

№ 4059 [1401]

**p-DIBROMOBENZENE -
CARBON TETRACHLORIDE**
 $\text{C}_6\text{H}_4\text{Br}_2 - \text{CCl}_4$

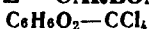
Mutual Solubility, Mol. %		t
A	B	
7.9	92.1	0
15.9	84.1	20
29.8	70.2	40
51.1	48.9	60

№ 4060 [299]

CARBON TETRACHLORIDE - BENZENE


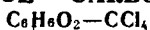
Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B		A	B	
100	0	-24.2	80.7	19.3	-40	52.0	48.0	-20
97.2	2.8	-30	75.8	24.2	-34	35.9	64.1	-10
91.5	8.5	-40	69.0	31.0	-35	14.7	85.3	0
87.1	12.9	-46.3	64.0	36.0	-30	0.0	100	5.5

№ 4061 [2013]

1, 3-BENZENEDIOL - CARBON TETRACHLORIDE


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
0.07	99.93	30	0.58	99.42	80
0.17	99.83	40	0.69	99.31	90
0.27	99.73	50	0.80	99.20	100
0.38	99.62	60	100.00	0.00	109.4
0.47	99.52	70			

№ 4062 [2013]

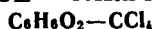
1, 4-BENZENEDIOL - CARBON TETRACHLORIDE


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B		A	B	
0.01	99.99	30	0.33	99.67	80	0.68	99.32	130
0.07	99.93	40	0.40	99.60	90	0.95	99.05	140
0.14	99.86	50	0.47	99.53	100	1.60	98.40	150
0:20	99.80	60	0.54	99.46	110	2.20	97.80	160
0.27	99.73	70	0.60	99.40	120	100.00	0.00	172

№ 4063

1, 2-BENZENEDIOL – CARBON TETRACHLORIDE

[2013]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.1	99.9	20	1.75	98.25	70
0.35	99.65	30	3.15	96.85	80
0.60	99.40	40	15.80	84.20	90
0.95	99.05	50	89.42	10.58	100
1.18	98.82	60	100.00	0.00	104.5

№ 4064

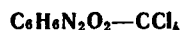
[1515]

NITROANILINE –**1 CARBON TETRACHLORIDE**

Solubility A, Wt.%	<i>t</i>
1.17	20

№ 4065

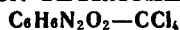
[319]

m-NITROANILINE –**CARBON TETRACHLORIDE**

Mutual Solubility, Mol.%		<i>t</i>
A	B	
7.0	93.0	90
86.7	13.3	100

№ 4066

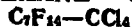
[519]

o-NITROANILINE –**CARBON TETRACHLORIDE**

Mutual Solubility, Mol.%		<i>t</i>
A	B	
4.6	95.4	40
21.1	78.9	50
73.9	26.1	60

№ 4067

[907]

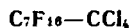
PERFLUOROMETHYLCYCLOHEXANE – CARBON TETRACHLORIDE

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
4.7	95.3	3.0	24.8	75.2	26.8	62.3	37.7	14.4
9.0	91.0	17.5	33.1	66.9	26.7	71.2	28.8	4.0
13.0	87.0	23.1	42.6	57.4	25.2	83.2	16.8	—8.0
16.6	83.4	25.5	55.3	44.7	19.9			

№ 4068

[909]

**PERFLUORHEPTANE –
CARBON TETRACHLORIDE**

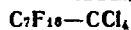


Mutual Solubility, Mol.%		<i>t</i>
A	B	
4.6	95.4	33.4
9.7	90.3	53.3
15.0	85.0	57.6
22.1	77.9	58.7
31.3	68.7	58.4
39.6	60.4	55.9
50.1	49.9	49.1
65.2	34.8	32.3
80.1	19.9	2.8

№ 4069

[446]

**PERFLUORHEPTANE –
CARBON TETRACHLORIDE**



Mutual Solubility, Mol.%		<i>t</i>
A	B	
7.8	92.2	46.4
17.2	82.8	56.1
20.6	79.4	56.8
29.5	70.5	57.0
50.8	49.2	47.8
65.6	34.4	32.8
68.5	31.5	28.7

№ 4070

[520]

m-NITROBENZOIC ACID – CARBON TETRACHLORIDE



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
0.14	99.86	30	0.85	99.15	70	13.0	87.0	110
0.23	99.77	40	1.3	98.7	80	53.7	46.3	120
0.40	99.60	50	2.4	97.6	90	79.1	20.9	130
0.70	99.30	60	5.0	95.0	100	100.0	0.0	142.4

№ 4071

[520]

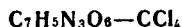
o-NITROBENZOIC ACID – CARBON TETRACHLORIDE



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
0.01	99.99	30	0.35	99.65	70	0.6	99.40	110
0.10	99.90	40	0.40	99.60	80	0.3	96.10	120
0.20	99.80	50	0.45	99.55	90	100.0	0.0	147.7
0.25	99.75	60	0.5	99.50	100			

p-NITROBENZOIC ACID – CARBON TETRACHLORIDE

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.01	99.99	30	0.40	99.60	100	2.1	97.9	170
0.07	99.93	40	0.48	99.52	110	2.8	97.2	180
0.13	99.87	50	0.54	99.46	120	4.6	95.4	190
0.20	99.80	60	0.60	99.40	130	7.3	92.7	200
0.25	99.75	70	0.70	99.30	140	12.7	87.3	210
0.30	99.70	80	0.90	99.10	150	100.0	0.0	239.9
0.36	99.64	90	1.5	98.5	160			

2, 4, 6-TRINITROTOLUENE – CARBON TETRACHLORIDE

Mutual Solubility Wt.%		t	Mutual Solubility, Wt.%		t	Mutual Solubility, Wt.%		t
A	B		A	B		A	B	
0.20	99.80	0	1.00	99.00	30	6.45	93.55	60
0.25	99.75	5	1.30	98.70	35	10.23	89.77	65
0.40	99.60	10	1.72	98.28	40	14.78	85.22	70
0.50	99.50	15	2.31	97.69	45	19.58	80.42	75
0.65	99.35	20	3.13	96.87	50			
0.81	99.19	25	4.35	95.65	55			

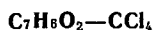
TETRYL – CARBON TETRACHLORIDE

Solubility A, Wt.%	m.p	Solubility A, Wt.%	m.p	Solubility A, Wt.%	m.p
0.007	0	0.039	30	0.154	60
0.011	5	0.048	35	0.193	65
0.015	10	0.058	40	0.240	70
0.020	15	0.073	45	0.296	75
0.025	20	0.095	50		
0.031	25	0.124	55		

№ 4075

[1913]

**BENZOIC ACID —
CARBON TETRACHLORIDE**

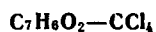


Solubility A, Wt. %	<i>t</i>
4.12	25

№ 4076

[1401]

**BENZOIC ACID —
CARBON TETRACHLORIDE**

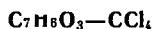


Mutual Solubility, Mol. %		<i>t</i>
A	B	
1.7	98.3	0
4.2	95.8	20
9.4	90.6	40
20.0	80.0	60

№ 4077

[1913]

**o-HYDROXYBENZOIC ACID —
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.262	25

№ 4078

**CARBON TETRACHLORIDE — METHOXYBENZENE
CCl₄ — C₇H₈O**

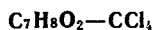
[1832]

Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B		A	B	
0.0	100.0	—37.5	39.6	60.4	—66.0	70.9	29.1	—50.0
4.1	95.9	—40.0	41.4	58.6	—67.0	75.2	24.8	—46.0
8.5	91.5	—42.0	43.8	56.2	—70.0	78.4	21.6	—42.0
14.3	85.7	—46.0	46.1	53.9	—73.0	83.3	16.7	—37.0
20.7	79.3	—50.0	49.2	50.8	—77.0	89.1	10.9	—31.0
25.4	74.6	—54.0	51.2	48.8	—74.5	91.9	8.1	—29.0
28.7	71.3	—55.5	57.3	42.7	—66.0	95.8	4.2	—26.0
31.5	68.5	—58.0	58.5	41.5	—64.0	100.0	0.0	—23.0
37.2	62.8	—63.0	66.2	33.8	—55.0			

№ 4079

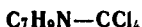
[1515]

**DIMETHYLPYRONE —
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
1.02	20

№ 4080 2, 6-DIMETHYLPYRIDINE – CARBON TETRACHLORIDE [2049]

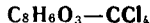


Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.0	100.0	-21.8	28.0	72.0	-55.5	61.3	38.7	-31.9
1.9	98.1	-25.2	32.5	67.5	-55.3	62.9	37.1	-30.0
3.5	96.5	-28.0	33.2	66.8	-54.0	66.8	33.2	-27.9
4.6	95.4	-31.1	36.0	64.0	-52.0	69.0	31.0	-25.5
6.4	93.6	-33.0	38.1	61.9	-51.1	72.6	27.4	-22.7
9.1	90.9	-37.5	40.5	59.5	-49.0	75.7	24.3	-20.0
10.6	89.4	-42.0	43.7	56.3	-47.0	79.4	20.6	-17.9
12.1	87.9	-43.2	46.0	54.0	-45.3	82.4	17.6	-15.8
13.0	87.0	-46.5	48.3	51.7	-42.0	86.5	13.5	-13.6
15.1	84.9	-47.5	51.4	48.6	-40.0	89.3	10.7	-12.2
17.8	82.2	-48.2	53.8	46.2	-38.0	92.6	7.4	-10.2
21.0	79.0	-51.0	55.2	44.8	-37.0	97.3	2.7	-7.5
23.3	76.7	-51.0	57.2	42.8	-35.7	100.0	0.0	-5.5
24.9	75.1	-53.2	59.1	40.9	-34.0			

№ 4081

[1515]

3, 4-METHYLENEDIOXYBENZALDEHYDE – CARBON TETRACHLORIDE



Solubility A, Wt.%	t
41.0	20

№ 4082 CHLOROACETOPHENONE – CARBON TETRACHLORIDE [71]



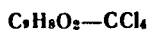
Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B		A	B	
0.22	99.78	-23.3	2.31	97.69	-0.9	26.10	73.90	28.6
0.25	99.75	-23.6	3.24	96.76	3.5	32.90	67.10	31.3
0.44	99.56	-22.7	5.66	94.34	10.3	34.83	65.17	31.8
0.49	99.51	-21.7	5.56	94.44	11.4	40.75	59.25	33.7
0.58	99.42	-21.3	7.54	92.46	15.1	47.01	52.99	35.7
0.70	99.30	-20.0	10.54	89.46	18.9	59.30	40.70	39.3
0.87	99.13	-18.5	13.15	86.85	21.4	66.90	33.10	41.9
1.70	98.30	-7.5	17.48	82.52	25.0	76.23	23.77	45.0
1.97	98.03	-5.0	20.35	79.65	26.7	88.91	11.09	49.7

№ 4083 [2027]

**ACETANILIDE –
CARBON TETRACHLORIDE**

Solubility A, Wt. %	<i>t</i>
0.102	25

№ 4084 [1055]

**CINNAMIC ACID –
CARBON TETRACHLORIDE**

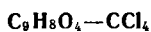
Solubility A, g/l.	<i>t</i>
21.72	26

№ 4085 [1055]

**2, 3-DIBROMO-3-
PHENYLPROPANOIC ACID –
CARBON TETRACHLORIDE**

Solubility A, g/l.	<i>t</i>
1.24	26

№ 4086 [2027]

**o-ACETOBENZOIC ACID –
CARBON TETRACHLORIDE**

Solubility A, Wt. %	<i>t</i>
0.04	25

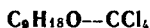
№ 4087 o-ACETOTOLUIDE – CARBON TETRACHLORIDE [854]



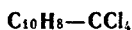
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0.6	99.4	35	13.4	86.6	65	72.0	28.0	95
0.7	99.3	40	28.0	72.0	70	81.0	19.0	100
0.8	99.2	45	37.3	62.7	75	89.8	10.2	105
1.5	98.5	50	46.0	54.0	80	100.0	0.0	110.3
3.7	96.3	55	54.5	45.5	85			
9.5	90.5	60	63.2	36.8	90			



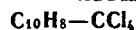
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
1.254	98.746	81.0	20.06	79.94	103.5	65.69	34.31	130.5
3.744	96.256	91.2	30.45	69.55	108.5	77.99	22.01	137.6
5.395	94.605	93.4	49.55	50.45	120.8	83.29	16.71	140.4
12.02	87.98	99.7	60.82	39.18	127.7	100.0	0.0	148.5

**2-NONANONE —
CARBON TETRACHLORIDE**

Mutual Solubility Wt.%		<i>t</i>
A	B	
14.5	85.5	-46.5
53.3	46.7	-20
88.5	11.5	-10

**NAPHTHALENE —
CARBON TETRACHLORIDE**

Mutual Solubility, Wt.%		<i>t</i>
A	B	
9.0	91.0	0
14.0	86.0	10
20.0	80.0	20
23.0	77.0	25
26.5	73.5	30
35.5	64.5	40
47.5	52.5	50
62.5	37.5	60
80.0	20.0	70

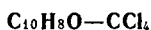
**NAPHTHALENE —
CARBON TETRACHLORIDE**

Mutual Solubility Wt.%		<i>t</i>
A	B	
10.15	89.85	0.4
12.20	87.80	6.0
15.23	84.77	13.0
18.78	81.22	19.5
24.66	75.34	28.2
34.67	65.33	39.5
42.92	57.08	46.9
58.77	41.23	58.3
69.32	30.68	64.8
83.42	16.58	72.4

№ 4092

[2027]

**β - NAPHTHOL -
CARBON TETRACHLORIDE**



Solubility A, Wt.%	<i>t</i>
0.442	25

№ 4093

CAMPHOR - CARBON TETRACHLORIDE

[203]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
25	75	-13.0	40	60	-8.7	57	43	31.8
28	72	-10.3	42	58	-9.6	58	42	37.6
30	70	-9.0	45	55	-10.7	60	40	48.3
32	68	-8.4	50	50	-13.1			
35	65	-8.0	55	45	16.5			

№ 4094

[2027]

**ANTIPYRINE -
CARBON TETRACHLORIDE**

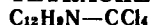


Solubility A, wt.%	<i>t</i>
1.02	25

№ 4095

[496]

**CARBAZOLE -
CARBON TETRACHLORIDE**

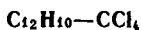


Mutual Solubility Wt.%		<i>t</i>
A	B	
0.09	99.91	15.5
0.11	99.89	30
0.30	99.70	50

№ 4096

BIPHENYL - CARBON TETRACHLORIDE

[2026]

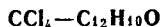


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
37.2	62.8	28.1	71.4	28.6	53.6
40.1	59.9	30.7	78.2	21.8	57.4
51.8	48.2	40.0	90.6	9.4	64.3
53.4	46.6	41.3	93.9	6.1	66.0

№ 4097

CARBON TETRACHLORIDE – PHENOXYBENZENE

[1832]



Mutual Solubility Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	28.0	49.0	51.0	1.0	79.4	20.6	-24.0
5.4	94.6	25.0	52.0	48.0	-1.0	82.7	17.3	-28.0
10.4	89.6	22.5	55.6	44.4	-3.0	86.4	13.6	-34.0
19.8	80.2	18.0	58.9	41.1	-6.0	91.0	9.0	-41.0
27.3	72.7	14.0	64.4	35.6	-12.0	93.4	6.6	-38.0
31.2	68.8	11.5	67.8	32.2	-13.0	95.9	4.1	-30.0
35.1	64.9	9.0	68.4	31.6	-14.0	97.7	2.3	-26.0
39.2	60.8	7.0	69.5	30.5	-15.0	100.0	0.0	-23.0
44.5	55.5	4.0	75.0	25.0	-20.0			

№ 4098

DODECYLAMMONIUM CHLORIDE – CARBON TETRACHLORIDE

[933]

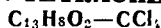


Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
1.50	98.50	43.8	13.46	86.54	56.3	26.60	73.40	73.3
2.96	97.04	47.0	14.89	85.11	57.1	31.72	68.28	81.1
5.74	94.26	50.6	15.80	84.20	57.5	35.48	64.52	87.2
9.10	90.90	53.5	16.62	83.38	58.7			
11.72	88.28	55.2	21.98	78.02	66.5			

№ 4099

**XANTHONE –
CARBON TETRACHLORIDE**

[1515]

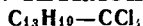


Solubility A, Wt.%	<i>t</i>
0.95	20

№ 4100

**FLUORENE –
CARBON TETRACHLORIDE**

[1401]

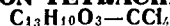


Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.7	96.3	0
7.8	92.2	20
15.1	84.9	40
27.5	72.5	60

№ 4101

**PHENYL o-HYDROXYBENZOATE –
CARBON TETRACHLORIDE**

[2027]



Solubility A, Wt.%	<i>t</i>
74.0	25

№ 4102 [935]

2-TRIDECANONE —
CARBON TETRACHLORIDE
 $C_{13}H_{26}O-CCl_4$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
5.0	95.0	—20
13.2	86.8	—10
29.0	71.0	0
52.4	47.6	10
79.9	20.1	20

№ 4103 [1515]

ANTHRAQUINONE —
CARBON TETRACHLORIDE
 $C_{14}H_8O_2-CCl_4$

Solubility A, Wt.%	<i>t</i>
0.043	20

№ 4104 [1515]
1,2-DIHYDROXYANTHRAQUINONE
— CARBON TETRACHLORIDE
 $C_{14}H_8O_4-CCl_4$

Solubility A, Wt.%	<i>t</i>
0.01	20

№ 4105 [840]

DICHLORODIPHENYL- —
TRICHLOROETHANE (D.D.T.) —
CARBON TETRACHLORIDE
 $C_{14}H_9Cl_3-CCl_4$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
9.0	91.0	0.0
10.5	89.5	7.2
18.0	82.0	24.0
34.8	65.2	34.8

№ 4106 [496]

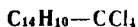
ANTHRACENE —
CARBON TETRACHLORIDE
 $C_{14}H_{10}-CCl_4$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.67	99.33	15.5
1.14	98.86	30
1.28	98.72	50

№ 4107 [496]

PHENANTHRENE —
CARBON TETRACHLORIDE
 $C_{14}H_{10}-CCl_4$

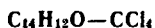
Mutual Solubility, Wt.%		<i>t</i>
A	B	
6.89	93.11	15.5
10.10	89.90	30



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
5.21	94.79	—10	13.64	86.36	15
5.74	94.26	—5	15.97	84.03	20
7.06	92.94	0	18.37	81.63	25
8.93	91.07	5	20.76	79.24	30
11.24	88.76	10			

**DESOXYBENZOIN –
CARBON TETRACHLORIDE**

[1515]



Solubility A, Wt.%	<i>t</i>
10.82	20

**BENZOIN –
CARBON TETRACHLORIDE**

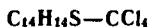
[1515]



Solubility A, Wt.%	<i>t</i>
0.20	20

**BENZYL SULFIDE –
CARBON TETRACHLORIDE**

[1515]



Solubility A, Wt.%	<i>t</i>
42.25	20

**HYDROBENZOIN –
CARBON TETRACHLORIDE**

[1515]



Solubility A, Wt.%	<i>t</i>
0.105	20

**DITOLYLTHIOUREA –
CARBON TETRACHLORIDE**

[1515]



Solubility A, Wt.%	<i>t</i>
0.10	20

**THIOPHOSPHORYL TRIPERIDIDE –
CARBON TETRACHLORIDE**

[263]



Solubility A, Wt.%	<i>t</i>
24.71	25

№ 4115 [2027]

**PHENOBARBITAL —
CARBON TETRACHLORIDE**
 $C_{16}H_{12}N_2O_3 - CCl_4$

Solubility A, Wt. %	<i>t</i>
0.007	25

№ 4116 [2007]

**HEXADECANOIC ACID —
CARBON TETRACHLORIDE**
 $C_{16}H_{32}O_2 - CCl_4$

Solubility A, Wt. %	<i>t</i>
0.471	0

№ 4117 [808]

**COCAINE —
CARBON TETRACHLORIDE**
 $C_{17}H_{21}NO_4 - CCl_4$

Solubility A, Wt. %	<i>t</i>
24.2	20

№ 4118 [808]

**CODEINE —
CARBON TETRACHLORIDE**
 $C_{18}H_{21}NO_3 - CCl_4$

Solubility A, Wt. %	<i>t</i>
2.85	20

№ 4119 [637]

**2-UNDECYLBENZOTHAZOLE —
CARBON TETRACHLORIDE**
 $C_{18}H_{27}NS - CCl_4$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
31.0	69.0	-20
47.1	52.9	-10
65.5	34.5	0
84.2	15.8	10
Completely miscible		20

№ 4120 [932]

**9, 12-OCTADECADIENOIC ACID —
CARBON TETRACHLORIDE**
 $C_{18}H_{32}O_2 - CCl_4$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
31.9	68.1	-35.3
41.2	58.8	-30
61.5	38.5	-20
85.7	14.3	-10
Completely miscible		0

№ 4121 [932]

**9-OCTADECENOIC ACID —
CARBON TETRACHLORIDE**
 $C_{18}H_{34}O_2 - CCl_4$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
9.4	90.6	-25.6
19.7	80.3	-20
40.5	59.5	-10
61.5	38.5	0
85.5	14.5	10
Completely miscible		20

№ 4122 [263]
**PHOSPHORYL TRICYCLO-
 HEXYLAMIDE -
 CARBON TETRACHLORIDE**
 $C_{18}H_{38}N_2OP-CCl_4$

Solubility A, Wt. %	<i>t</i>
5.70	25

№ 4123 [263]
**THIOPHOSPHORYL TRI-
 CYCLOHEXYLAMIDE -
 CARBON TETRACHLORIDE**
 $C_{18}H_{38}N_2PS-CCl_4$

Solubility A, Wt. %	<i>t</i>
2.20	25

№ 4124 [935]
**2-NONADECANONE -
 CARBON TETRACHLORIDE**
 $C_{19}H_{38}O-CCl_4$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.5	97.5	0
6.6	93.4	10
14.9	85.1	20
32.0	68.0	30
59.7	40.3	40
89.0	11.0	50

№ 4125 [1515]
**NITRON -
 CARBON TETRACHLORIDE**
 $C_{20}H_{18}N_4-CCl_4$

Solubility A, Wt. %	<i>t</i>
2.48	20

№ 4126 [1722]
**PAPAVERINE -
 CARBON TETRACHLORIDE**
 $C_{20}H_{21}NO_4-CCl_4$

Solubility A, Wt. %	<i>t</i>
0.203	17

№ 4127 [808]
**PAPAVERINE -
 CARBON TETRACHLORIDE**
 $C_{20}H_{21}NO_4-CCl_4$

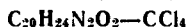
Solubility A, Wt. %	<i>t</i>
0.515	20

№ 4128 [808]
**NARCOTINE -
 CARBON TETRACHLORIDE**
 $C_{20}H_{23}NO_7-CCl_4$

Solubility A, Wt. %	<i>t</i>
1.02	20

№ 4129 [808]

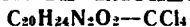
**QUININE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.54	20

№ 4130 [1418]

**QUINIDINE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.554	20

№ 4131 [1530]

QUININIUM SALTS – CARBON TETRACHLORIDE

*t* = 20

A	Solubility A, Wt. %	A	Solubility A, Wt. %
Quinine Racemic Lactate	0.00715	Quinine Butyrate	3.846
" d- Lactate	0.0111	" Succinate	0.001
" l- Lactate	0.00476	" Tartrate	0.0004
" Formate	0.00625	" Maleate	0.0008
" Acetate	0.05	" Citrate	0.00167
" Propionate	0.237	" Sulfate	0.0025

№ 4132 [1418]

**STRYCHNINE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.158	20

№ 4133 [808]

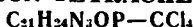
**STRYCHNINE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.22	20

№ 4134 [263]

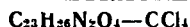
**PHOSPHORYL TRIBENZYL AMIDE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.235	25

№ 4135 [808]

**BRUCINE –
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
1.96	20

№ 4136

[1722]

**NARCEINE —
CARBON TETRACHLORIDE**

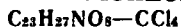


Solubility A, Wt. %	<i>t</i>
0.011	17

№ 4137

[808]

**NARCEINE —
CARBON TETRACHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.002	17

№ 4138

[637]

2-HEPTADECYL BENZOTHAZOLE — CARBON TETRACHLORIDE



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.9	94.1	—20	45.1	54.9	20
10.7	89.3	—10	70.1	29.9	30
17.6	82.4	0	Completely miscible		40
31.0	69.0	10			

№ 4139

DOTRIACONTANE — CARBON TETRACHLORIDE

[913]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
1.99	98.01	21.3	4.90	95.10	27.1	24.2	75.8	42.8
2.38	97.62	22.6	7.91	92.09	27.5	27.0	73.0	44.7
3.05	96.95	24.3	11.2	88.8	35.0	41.3	58.7	50.6
3.73	96.27	25.6	14.5	85.5	37.5	46.7	53.3	53.0

№ 4140

GLYCEROL TRIOCTADECANOATE —

[934]

CARBON TETRACHLORIDE



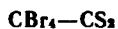
Solubility A, Wt. %	<i>t</i>			Solubility A, Wt. %	<i>t</i>		
	α -form	β^1 -form	β -form		α -form	β^1 -form	β -form
2.9	20.4	26.6	34.1	66.3	46.7	56.0	64.4
10.3	28.0	35.2	43.7	84.6	51.0	60.5	69.0
25.7	35.4	43.5	51.9	100.0	54.0	64.5	73.0
44.0	41.4	50.0	58.3				

NOTE: Data taken from the article graph

№ 4141

[1119]

**TETRABROMOMETHANE –
CARBON DISULFIDE**



Mutual Solubility, Mol.%		<i>t</i>
A	B	
93.17	6.83	38.6
94.21	5.79	42.05
96.51	3.49	54.25
97.45	2.55	65.0

№ 4142

TETRABROMOMETHANE – CHLOROFORM

[1990]

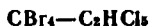


Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
0.0	100	—63.3	35.03	64.97	—32.0	69.50	30.50	18.0
19.3	80.7	—63.7	46.28	53.72	—14.4	77.25	22.75	28.4
25.59	74.41	—49.4	57.07	42.93	0.4	85.35	14.65	39.7
30.05	69.95	—40.55	60.73	39.27	6.7	100.0	0.0	92.3

№ 4143

TETRABROMOMETHANE – PENTACHLOROETHANE

[1990]



Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	—29.5	40.55	59.45	—13.6	80.77	19.23	42.9
12.10	87.90	—32.0	48.23	51.77	0.2	87.29	12.71	58.6
25.48	74.52	—36.5	57.51	42.49	13.0	100.0	0.0	92.3
34.26	65.74	—23.7	69.06	30.94	26.6			



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	91.0	34.1	65.9	17.8	76.6	23.4	6.5
4.2	95.8	78.0	35.6	64.4	14.0	78.5	21.5	5.8
6.5	93.5	70.8	37.8	62.2	16.3	80.9	19.1	3.3
7.4	92.6	67.5	41.0	59.0	19.0	81.2	18.8	3.2
9.0	91.0	64.0	44.0	56.0	19.8	81.4	18.6	2.5
10.6	89.4	60.0	46.2	53.8	20.2	83.2	16.8	1.2
12.5	87.5	54.0	48.6	51.4	20.7	85.7	14.3	— 3.0
14.3	85.7	49.5	49.2	50.8	20.1	86.6	13.4	— 3.4
16.5	83.5	44.2	51.3	48.7	20.6	88.2	11.8	— 6.3
19.6	80.4	39.3	53.6	46.4	20.5	89.3	10.7	— 6.7
21.4	78.6	37.0	55.2	44.8	19.8	90.0	10.0	— 9.3
23.7	76.3	33.9	56.3	43.7	19.7	91.9	8.1	—11.3
25.9	74.1	31.0	60.0	40.0	18.3	92.67	7.33	—10.8
28.0	72.0	27.5	62.3	37.7	17.4	94.00	6.00	— 9.9
30.6	69.4	23.2	65.5	34.5	15.2	96.39	3.61	— 7.8
32.0	68.0	21.3	70.8	29.2	11.5	98.65	1.35	— 6.9
32.5	67.5	20.0	72.4	27.6	9.3	100.0	0.0	— 5.5

DODECYLAMMONIUM CHLORIDE – TETRABROMOMETHANE

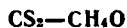
Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
0.00	100.00	91.6	10.85	89.15	80.1	32.76	67.24	92.0
2.24	97.76	89.4	16.74	83.26	72.5	39.54	60.46	102.8
4.44	95.56	87.4	18.70	81.30	69.8	50.80	49.20	120.4
6.67	93.33	85.2	19.90	80.10	71.8			
7.21	92.79	84.6	24.85	75.15	79.6			

CARBON DISULFIDE –**FORMIC ACID**

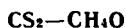
Solubility A, wt.%	<i>t</i>
4.45	25



Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
14.5	85.5	18.5	27.5	72.5	58.5	78.4	21.6	61.5
15.0	85.0	19.5	42.4	57.6	63.4	84.1	15.9	57.7
16.0	84.0	26.5	55.0	45.0	63.5*	92.2	7.8	43.0
17.0	83.0	33.6	62.7	37.3	63.5	95.5	4.5	22.5



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
45.1	54.9	10	64.0	36.0	35	96.4	3.6	25
50.8	49.2	20	80.5	19.5	40.5*	97.2	2.8	20
54.2	45.8	25	93.5	6.5	35	98.3	1.7	10
58.4	41.6	30	95.5	4.5	30			



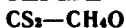
Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
99.64	0.36	-18.85	85.0	15.0	35.7*	60.53	39.47	27.34
98.47	1.53	6.46	84.73	15.27	35.75	49.93	50.07	13.80
95.27	4.73	26.50	83.89	16.11	35.63	41.29	58.71	-4.43
94.74	5.26	28.00	77.65	22.35	35.30	28.78	71.22	-38.37
93.55	6.45	30.58	72.85	27.15	34.09	18.70	81.30	-73.60
93.00	7.00	31.08	70.13	29.87	33.35	6.39	93.61	-100.7
90.22	9.78	33.89	64.12	35.88	30.70			
88.43	11.57	34.82	61.03	38.97	28.60			

* crit.pt. of Solubility.

№ 4150

CARBON DISULFIDE – METHANOL

[630]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
46.58	53.42	13.02	76.88	23.12	40.50	89.03	19.97	39.15
52.55	47.45	24.77	80.50	19.50	40.60*	91.14	8.86	37.74
61.42	38.58	33.12	80.75	19.25	40.69	94.73	5.27	33.43
71.36	28.64	39.57	83.30	16.70	40.27	97.18	2.82	23.29

№ 4151

CARBON DISULFIDE – ACETONITRILE

[1057]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
26.9	73.1	3.2	42.5	57.5	48.5	75.2	24.8	51.5
29.0	71.0	20.0	57.8	42.2	51.5	83.7	16.3	49.0
30.3	69.7	22.0	62.5	37.5	51.5*	94.3	5.7	30.0
35.6	64.4	38.0	71.5	28.5	51.5	97.5	2.5	12.5

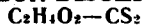
№ 4152

[1868]

CHLORAL HYDRATE –**CARBON DISULFIDE**

Solubility A, Wt. %	<i>t</i>
1.45	20

№ 4153

**ACETIC ACID –
CARBON DISULFIDE**

[1046]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
19.6	80.4	0.5
42.7	57.3	3.9
56.1	43.9	2.9
24.6	75.4	2.6
49.3	50.7	3.9
66.1	33.9	-5.2

№ 4154

**CARBON DISULFIDE –
ETHANOL**

[843]

Mutual Solubility, wt. %		<i>t</i>
A	B	
59.58	40.42	-20
65.11	34.89	-17.7
79.96	20.04	-16.1
84.89	15.11	-15.9
89.54	10.46	-14.4
94.94	5.06	-18.4

* crit.pt. of Solubility

№ 4155

CARBON DISULFIDE – ETHANOL

[1268]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
99.09	0.91	-108.04	87.48	12.52	-25.07	61.23	38.77	-35.17
98.55	1.45	-73.68	83.0	17.0	-24.4*	49.46	50.54	-54.58
96.78	3.22	-43.71	82.71	17.29	-24.31	38.75	61.25	-79.26
93.05	6.95	-30.16	76.25	23.75	-25.13	31.96	68.04	-100.07
89.57	10.43	-25.76	70.39	29.61	-26.88			

№ 4156

[1741]

**CARBON DISULFIDE –
ETHANOL**
 $\text{CS}_2\text{—C}_2\text{H}_5\text{O}$

Mutual Solubility, Vol. %		<i>t</i>
A	B	
98.0	2.0	-62.0
94.3	5.7	-42.0
90.9	9.1	-35.0
77.8	22.2	-24.0
71.5	28.5	-24.0*
57.0	43.0	-24.0
43.0	57.0	-45.0
29.0	71.0	-75.0

№ 4157

[2070]

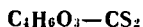
**CARBON DISULFIDE –
ACETONE**
 $\text{CS}_2\text{—C}_3\text{H}_6\text{O}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
78.4	21.6	-72
61.8	38.2	-52
51.4	48.6	-43.5
46.0	54.0	-42.5
41.2	58.8	-42.5*
28.7	71.3	-45
14.8	85.2	-55

№ 4158

ACETIC ANHYDRIDE – CARBON DISULFIDE

[1049]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
5.27	94.73	0.7	36.39	63.61	29.85	53.22	46.78	27.9
9.66	90.34	16.5	36.93	63.07	29.80	58.57	41.43	25.7
18.27	81.73	26.7	38.01	61.99	29.80	67.60	32.40	19.1
19.18	80.82	27.2	41.10	58.90	29.65	72.18	27.82	13.45
32.10	67.90	29.7	42.85	57.15	29.65	77.98	22.02	4.0
35.36	64.64	29.83	44.20	55.80	29.5			
36.17	63.83	29.83	52.04	47.96	28.3			

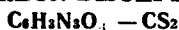
* crit.pt. of Solubility



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
2.2	97.8	-6.0	15.5	84.5	28.1	36.0	64.0	29.0
3.1	96.9	4.8	19.1	80.9	29.3	44.7	55.3	27.3
5.2	94.8	11.0	22.7	77.3	29.8	56.2	43.8	21.8
7.3	92.7	19.1	27.1	72.9	29.9	66.0	34.0	11.8
11.0	89.0	24.5	33.1	66.9	29.4	75.0	25.0	-1.6

№ 4160

[409]

1, 2, 4-TRINITRO BENZENE –
CARBON DISULFIDE

Solubility A, Wt. %	<i>t</i>
0.40	15.5

№ 4161

p-DIBROMOBENZENE – CARBON DISULFIDE

[1751]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
27	73	0	62	38	40
34	66	10	72	28	50
43	57	20	81	19	60
53	47	30	90	10	70

№ 4162

[599, 1930]

2, 4, 6-TRINITROTOLUENE – CARBON DISULFIDE



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.14	99.86	0	0.63	99.37	25
0.20	99.80	5	0.84	99.16	30
0.26	99.74	10	1.12	98.88	35
0.35	99.65	15	1.51	98.49	40
0.48	99.52	20	1.98	98.02	45

TETRYL - CARBON DISULFIDE



Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
0.0090	0	0.0244	25
0.0120	5	0.0296	30
0.0146	10	0.0392	35
0.0177	15	0.0557	40
0.0208	20	0.0940	45

PHTHALIC ANHYDRIDE - CARBON DISULFIDE



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
0.013	99.987	-112.5	0.3	99.7	10	3.7	96.3	90
0.013	99.987	-93	0.7	99.3	20	5	95.0	100
0.016	99.984	-77.5	0.8	99.2	30	8	92.0	120
0.03	99.97	-40	1.2	98.8	40	13.3	86.7	140
0.06	99.94	-20	1.3	98.7	50	20.7	79.3	160
0.10	99.9	-10	1.7	98.3	60	30.2	69.8	180
0.2	99.8	0	2.3	97.7	70			

NAPHTHALENE - CARBON DISULFIDE

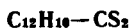


Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
0.62	99.38	-108	19.9	80.1	0	57.2	42.8	35.5
1.38	98.62	-82	27.5	72.5	10	67.6	32.4	47.5
2.3	97.7	-50	36.3	63.7	20	79.2	20.8	62.5
6.6	93.4	-30	41.0	59.0	23	90.3	9.7	80.0
14.1	85.9	-10	46.0	54.0	26.5			

№ 4166 [496]
CARBAZOLE – CARBON DISULFIDE
 $C_{12}H_9N-CS_2$

Solubility A, Wt.%	<i>t</i>
0.44	30

№ 4167 [2026]
BIPHENYL – CARBON DISULFIDE



Mutual Solubility, Wt.%		<i>t</i>
A	B	
40.4	59.6	28.4
49.8	50.2	36.6
51.4	48.6	37.7
52.0	48.0	38.2
55.3	44.7	40.7
59.5	40.5	44.1
63.7	36.3	47.6
69.4	30.6	51.3
81.0	19.0	58.3

№ 4168 [666]
DIPHENYLAMINE – CARBON DISULFIDE



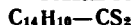
Mutual Solubility, Wt.%		<i>t</i>
A	B	
1.3	98.7	-60
2.2	97.8	-50
3.8	96.2	-40
7.2	92.8	-30
12.5	87.5	-20
21.6	78.4	-10
33.7	66.3	0
46.8	53.2	10
60.9	39.1	20
76.0	24.0.	30

№ 4169 [245, 246]
DIPHENYLAMINE – CARBON DISULFIDE



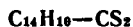
Solubility A, Wt.%	<i>t</i>
0.87	-88.5
0.37	-117

№ 4170 [496]
ANTHRACENE – CARBON DISULFIDE



Mutual Solubility, wt.%		<i>t</i>
A	B	
0.52	99.48	15.5
1.59	98.41	30

№ 4171 [496]
PHENANTHRENE – CARBON DISULFIDE



t = 15.5

Mutual Solubility, Wt.%	
A	B
20.90	79.10



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
17.76	82.24	-10	38.76	61.24	15
22.38	77.62	-5	41.89	58.11	20
27.18	72.82	0	44.73	55.27	25
31.45	68.55	5	47.32	52.68	30
35.27	64.73	10			

№ 4173

[245, 246]

**TRIPHENYLAMINE –
CARBON DISULFIDE**

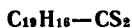


Solubility A, Wt. %	<i>t</i>
1.91	-83
1.56	-91
1.24	-102
0.98	-113.5

№ 4174

TRIPHENYLMETHANE – CARBON DISULFIDE

[245, 246, 666]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
0.98	99.02	-113.5	13.7	86.3	-20	72.4	27.6	50
1.24	97.76	-102	25.8	74.2	0	78.6	21.4	60
1.56	98.44	-91	38.7	61.3	10	85.6	14.4	70
1.91	98.09	-83	43.2	56.8	20	92.2	7.8	80
3.4	96.6	-60	52.9	47.1	30			
7.5	92.5	-40	63.7	36.3	40			

№ 4175

[913]

**DOTRIACONTANE –
CARBON DISULFIDE**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.99	98.01	17.4
4.00	96.00	20.6
9.5	90.5	25.9
19.3	80.7	31.7
50.9	49.1	45.9

№ 4176 **GLYCEROL TRIDECANOATE – CARBON DISULFIDE** [1240]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
8.0	92.0	-10	32.2	67.8	0	70.0	30.0	15
13.0	87.0	-7.5	40.0	60.0	2.5	81.0	19.0	20
19.0	81.0	-5.0	48.0	52.0	5.0	91.0	9.0	25
25.0	75.0	-2.5	59.0	41.0	10			

№ 4177 **GLYCEROL TRIDODECANOATE – CARBON DISULFIDE** [1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
0.5	99.5	-10	9.0	91.0	4	60.0	40.0	25
1.5	98.5	-5	10.5	89.5	5	71.0	29.0	30
4.2	95.8	0	21.0	79.0	10	81.0	19.0	35
6.0	94.0	2	35.0	65.0	15	91.0	9.0	40
7.5	92.5	3	47.5	52.5	20			

№ 4178 **GLYCEROL** [1240]

**TRITETRADECANOATE –
CARBON DISULFIDE**



Solubility A, Wt. %	<i>t</i>
0.5	0
1.6	5
5.0	10
12.5	15
24.0	20
36.0	25
49.0	30
60.0	35
70.0	40
79.0	45
89.0	50

№ 4179 **GLYCEROL** [1240]

TRIOCTADECANOATE –

CARBON DISULFIDE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.2	99.8	10
0.5	99.5	15
1.0	99.0	20
1.6	98.4	25
4.5	95.5	30
12.0	88.0	35
24.5	75.5	40
40.0	60.0	45
51.5	48.5	50
72.0	28.0	60
91.0	9.0	70

№ 4180

CARBON MONOXIDE - METHANOL

[97]

CO-CH₃O

Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at	Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at	Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at
13.6	25	60	58.4	25	243	62.1	90	300
15.5	25	67	15.9	90	50	27.8	140	86
26.0	25	110	28.5	90	100	29.4	140	90
41.2	25	180	38.9	90	150	45.8	140	145
41.4	25	186	48.2	90	200	70.0	140	291
57.3	25	241	55.8	90	250			

№ 4181

[964]

CARBON MONOXIDE - ACETONE

CO-C₃H₆O

Solubility A cc/cc B	<i>t</i>
0.1917	-79.8
0.1961	-59.7
0.2053	-40.3
0.2178	-20.5
0.2336	0.0
0.2538	20.0
0.2732	40.0

№ 4182

[964]

CARBON MONOXIDE -

METHYL ACETATE

CO-C₃H₆O₂

Solubility A cc/cc B	<i>t</i>
0.1812	-78.8
0.1897	-60.4
0.2023	-40.9
0.2182	-20.3
0.2363	0.0
0.2549	20.0
0.2761	40.1

№ 4183

[493]

CARBON MONOXIDE -

ETHYL ETHER

CO-C₄H₁₀O

Solubility A cc/cc B	<i>t</i>
0.3618	0
0.3842	10

№ 4184

[964]

CARBON MONOXIDE -

ETHYL ETHER

CO-C₄H₁₀O

Solubility A cc/cc B	<i>t</i>
0.3820	-78.8
0.3660	-59.5
0.3627	-40.1
0.3651	-20.1
0.3790	0.0
0.3907	20.0

№ 4185

[964]

CARBON MONOXIDE -

CHLOROBENZENE

CO-C₆H₅Cl

Solubility A cc/cc B	<i>t</i>
0.1201	-40.45
0.1273	-21.3
0.1375	0.0
0.1483	20.0
0.1600	40.0
0.1735	60.0
0.1893	80.35

**CARBON MONOXIDE —
BENZENE
CO—C₆H₆**

Solubility A cc/cc B	
0.1702	12
0.1771	20
0.1972	40.05
0.2201	60.3

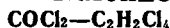
**CARBON MONOXIDE — VARIOUS SOLVENTS
CO— —**

Solvent		Solubility A cc/cc B	
Name	Formula	<i>t</i> = 25	<i>t</i> = 20
Water	H ₂ O	0.02404	0.02586
Aniline	C ₆ H ₇ N	0.05358	0.05055
Carbon Disulfide	CS ₂	0.08314	0.08112
Nitrobenzene	C ₆ H ₅ NO ₂	0.09360	0.09105
Benzene	C ₆ H ₆	0.1707	0.1645
Acetic Acid	C ₂ H ₄ O ₂	0.1714	0.1689
1- Pentanol	C ₅ H ₁₂ O	0.1714	0.1706
Dimethylbenzene	C ₈ H ₁₀	0.1781	0.1744
Ethanol	C ₂ H ₆ O	0.1921	0.1901
Chloroform	CHCl ₃	0.1954	0.1897
Methanol	CH ₄ O	0.1955	0.1830
Pentyl Acetate	C ₇ H ₁₄ O ₂	0.2140	0.2108
Acetone	C ₃ H ₆ O	0.2225	0.2128
2-Methylpropyl Acetate	C ₆ H ₁₂ O ₂	0.2365	0.2314
Ethyl Acetate	C ₄ H ₈ O ₂	0.2516	0.2419
Toluene	C ₇ H ₈	0.1808	0.1742

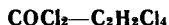
**PHOSGENE — TRICHLOROETHYLENE
COCl₂—C₂HCl₃**

t = 20

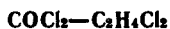
Mutual Solubility, Wt. %		<i>P</i>	Mutual Solubility, Wt. %		<i>P</i>
A	B		A	B	
2.0	98.0	49.3	27.1	72.9	471.2
7.8	92.2	163.0	33.6	66.4	565.9
12.7	87.3	256.4	36.4	63.6	618.4
17.8	82.2	334.6	39.0	61.0	649.8
22.0	78.0	400.1	42.9	57.1	694.9

PHOSGENE – TETRACHLOROETHANE

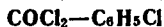
Solubility A, Wt. %	<i>t</i>
60.0	16.8
47.2	25.1
42.8	29.9

PHOSGENE – TETRACHLOROETHANE*t* = 20

Mutual Solubility, Wt. %		<i>P</i>	Mutual Solubility, Wt. %		<i>P</i>
A	B		A	B	
5.7	94.3	130.7	38.5	61.5	655.8
15.4	84.6	322.8	42.3	57.7	692.8
30.3	69.7	550.1	4.50	55.0	744.3
35.9	64.1	623.6			

PHOSGENE – DICHLOROETHANE

Mutual Solubility Wt. %		<i>t</i>	<i>P</i>	Mutual Solubility, Wt. %		<i>t</i>	<i>P</i>	Mutual Solubility Wt. %		<i>t</i>	<i>P</i>
A	B			A	B			A	B		
1.13	98.87	—15	17.5	2.32	97.68	0	53.9	54.56	45.44	0	413.6
3.45	96.55	—15	29.7	4.71	95.29	0	78.4	6.80	93.20	20	130.9
5.75	94.25	—15	37.9	7.00	93.00	0	99.8	12.90	87.10	20	231.6
8.02	91.98	—15	49.0	11.26	88.74	0	135.7	18.71	81.29	20	315.1
12.24	87.76	—15	63.4	16.98	83.02	0	191.9	23.17	76.83	20	385.8
18.02	81.98	—15	83.8	22.06	77.94	0	222.0	28.75	71.25	20	461.2
23.00	77.00	—15	96.2	30.48	69.52	0	277.7	34.71	65.29	20	542.8
28.80	71.20	—15	115.7	37.36	62.64	0	322.0	42.61	57.39	20	632.6
36.02	63.98	—15	138.2	42.97	57.03	0	355.2	46.70	53.30	20	675.1
42.10	57.90	—15	157.4	48.36	51.64	0	379.4	49.51	50.49	20	715.8
46.90	53.10	—15	175.2	51.78	48.22	0	395.1	51.35	48.65	20	733.9

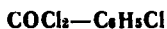
PHOSGENE – CHLOROBENZENE

Solubility A, Wt. %	<i>t</i>
81.6	12.3
67.1	16.6
68.9	16.7
50.0	24.2
44.9	29.7

№ 4193

PHOSGENE – CHLOROBENZENE

[72]



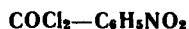
$t = 0$

Mutual Solubility, Wt. %		P	Mutual Solubility, Wt. %		P
A	B		A	B	
2.8	97.2	32.5	33.5	66.5	260.4
5.5	94.5	57.6	40.6	59.4	299.6
12.8	87.2	118.8	46.4	53.6	336.7
19.0	81.0	166.0	51.1	48.9	358.8
24.5	75.5	204.1	55.1	44.9	379.9

№ 4194

[260]

PHOSGENE – NITROBENZENE



Solubility A, Wt. %	t
51.8	16.8

№ 4195

PHOSGENE – BENZENE

[72]



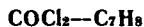
$t = 20$

Mutual Solubility, Wt. %		P	Mutual Solubility, Wt. %		P
A	B		A	B	
2.30	97.70	64.8	34.00	66.00	490.2
8.97	91.03	165.7	38.75	61.25	554.5
16.83	83.17	272.7	42.68	57.32	599.0
23.83	76.17	363.2	49.18	50.82	669.3
29.43	70.57	432.0	52.00	48.00	691.9

№ 4196

[260]

PHOSGENE – TOLUENE



Solubility A, Wt. %	t
71.0	17.0
55.4	23.5
44.2	30.5
42.6	31.5

№ 4197

PHOSGENE - TOLUENE

[72]



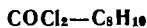
t=20

Mutual Solubility, wt. %		P	Mutual Solubility, wt. %		P
A	B		A	B	
9.50	90.50	165.7	47.07	52.93	690.5
24.30	75.70	404.8	50.10	49.90	736.2
36.94	63.06	553.4	52.81	47.19	769.7
43.62	56.38	638.8			

№ 4198

[260]

PHOSGENE - DIMETHYLBENZENE



Solubility A, Wt. %	t
82.1	12.3
69.3	16.4
68.5	16.9
50.8	23.8
41.6	29.8

№ 4199

PHOSGENE - DIMETHYLBENZENE

[72]



Mutual Solubility Wt. %		t	P	Mutual Solubility, Wt. %		t	P	Mutual Solubility, Wt. %		t	P
A	B			A	B			A	B		
27.56	72.44	-15	108	22.93	77.07	0	176.0	16.8	83.2	20	333.7
33.32	66.68	-15	124	29.11	70.89	0	238.4	23.2	76.8	20	433.8
42.00	58.00	-15	145	38.11	61.89	0	277.0	29.4	70.6	20	514.5
48.80	51.20	-15	162	46.72	53.28	0	321.5	34.5	65.5	20	576.0
54.10	45.90	-15	176	52.48	47.52	0	352.8	38.9	61.1	20	627.7
3.57	96.43	0	32.8	57.22	42.78	0	378.1	42.8	57.2	20	683.1
6.81	93.19	0	60.0	61.10	38.90	0	393.4	46.6	53.4	20	721.4
15.57	84.43	0	129.6	9.0	91.0	20	203.4	49.5	50.5	20	749.0

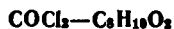
№ 4200

[260]

№ 4201

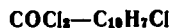
[260]

PHOSGENE - CREOSOL



Solubility A, Wt.%	<i>t</i>
43.6	16.2

PHOSGENE - CHLORONAPHTHALENE

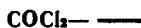


Solubility A, Wt.%	<i>t</i>
51.1	17

№ 4202

[72]

PHOSGENE - KEROSENE*

*t* = 20

Mutual Solubility, Wt.%		<i>P</i>
A	B	
9.34	90.66	255.5
17.57	82.43	427.9
24.73	75.27	553.2
30.70	69.30	651.6
35.91	64.09	719.8
40.56	59.44	757.0

№ 4203

[260]

PHOSGENE - PETROLEUM**



Solubility A, Wt.%	<i>t</i>
72.4	12.3
62.1	15.8
58.9	16.7
44.3	22.4
41.6	23.7
33.0	29.9
32.6	30.0

* d_4^{20} 0.821

* b.p. 180 - 280°

№ 4204 [260]

**PHOSGENE -
HEAVY LUBRICATING OIL**
COCl₂—

Solubility A, Wt. %	<i>t</i>
44.3	15.6
28.2	23.5
19.7	31.0

№ 4205 [294]

PHOSGENE - VARIOUS SOLVENTS
COCl₂—
t = 20

Solvent		Solubility A, Wt. %
Name	Formula	
Carbon Tetrachloride	CCl ₄	21.6
Chloroform	CHCl ₃	37.0
Benzine	—	44.8
Benzene	C ₆ H ₆	49.8
Toluene	C ₇ H ₈	39.9
Acetic Acid	C ₂ H ₄ O ₂	38.3
Ethyl Acetate	C ₄ H ₈ O ₂	49.6

№ 4206 [884, 1885]

CARBON OXY SULFIDE - VARIOUS SOLVENTS
COS—

Solvent		Solubility A cc/cc B	<i>t</i>
Name	Formula		
Water	H ₂ O	0.8	13.5
"	"	0.54	20
Ethanol	C ₂ H ₆ O	8.0	22
Toluene	C ₇ H ₈	15.0	22
Pyridine	C ₅ H ₅ N	0.044	13.5
Nitrobenzene	C ₆ H ₅ NO ₂	0.12	13.5

№ 4207 [1153]

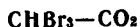
CARBON DIOXIDE - CHLOROFORM
CO₂—CHCl₃

Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
3.83	18	3.26	28
3.71	20	3.11	30
3.60	22	2.94	32
3.50	24	2.81	34
3.39	26	2.68	36

№ 4208

TRIBROMOMETHANE - CARBON DIOXIDE

[418]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0	100	-31	24	76	-8
3.7	96.3	-32	35.2-67.7	64.8-32.3	-5
4.9	95.1	-30	92.1	7.9	-3.5
13.5	86.5	-16			

№ 4209

CARBON DIOXIDE - BROMOCHLOROMETHANE

[2003]

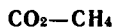


Mutual Solubility, Mol. %		<i>t</i>	<i>P</i>	Mutual Solubility, Mol. %		<i>t</i>	<i>P</i>
A	B			A	B		
0.0	100.0	-87.9	2	21.6	78.4	-80.0	793
4.6	95.4	-89.9	148	29.2	70.8	-73.8	1226
6.0	94.0	-90.5	198	38.8	61.2	-69.7	1607
8.4	91.6	-91.3	219	60.0	40.0	-64.2	2420
10.6	89.4	-92.1	236	80.0	20.0	-60.3	3160
12.1	87.9	-90.4	311	100.0	0.0	-56.6	3885
15.0	85.0	-85.5	480				

№ 4210

CARBON DIOXIDE - METHANE

[193]



$t = 0$

Mutual Solubility, Mol. %		<i>P</i> _{abs. at}	Mutual Solubility, Mol. %		<i>P</i> _{abs. at}	Mutual Solubility, Mol. %		<i>P</i> _{abs. at}
A	B		A	B		A	B	
80.0	20.0	4000	36.0	64.0	6500	86.0	14.0	5500
68.0	32.0	4500	29.0	71.0	7000	88.5	11.5	5000
59.0	41.0	5000	80.0	20.0	7000	91.5	8.5	4500
50.5	49.5	5500	81.7	18.3	6500	94.5	5.5	4000
43.5	56.5	6000	84.0	16.0	6000			

№ 4211

[1880]

**CARBON DIOXIDE -
METHANOL**
CO₂-CH₃O

Solubility A cc/cc B	<i>t</i>	<i>P</i>
120.5	-78	50
119.6	-78	100
120.1	-78	200
122.2	-78	400
126.8	-78	700
42.5	-59	100
42.7	-59	200
43.1	-59	400
43.35	-59	700

№ 4212

[1153]

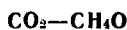
**CARBON DIOXIDE -
METHANOL**
CO₂-CH₃O

Solubility A cc/cc B	<i>t</i>
3.63	18
3.57	20
3.51	22
3.44	24
3.37	26
3.28	28
3.19	30
3.09	32
2.97	34

№ 4213

CARBON DIOXIDE - METHANOL

[98]

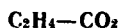


Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at	Solubility A cc/g B	<i>t</i>	<i>P</i> abs. at	Solubility A cc/cc B	<i>t</i>	<i>P</i> abs. at
59.5	0	6.8	287	25	39.7	12.8	75	6.8
94.9	0	10.7	19.5	49.8	6.8	22.3	75	10.7
174	0	16.5	32.1	49.8	10.7	35.5	75	16.5
270	0	22.3	51.8	49.8	16.5	48.6	75	22.3
29.9	25	6.8	71.9	49.8	22.3	71.5	75	30.0
49.3	25	10.7	112	49.8	30.0	103	75	39.7
82.5	25	16.5	161	49.8	39.7	140	75	49.4
118	25	22.3	228	49.8	49.4	181	75	59.1
197	25	30.0	269	49.8	55.2	234	75	68.8

№ 4214

ETHYLENE - CARBON DIOXIDE

[195]



t = 0

Contents of A, Mol.%		<i>P</i> abs. at	Contents of A, Mol.%		<i>P</i> abs. at
in liquid phase	in gaseous phase		in liquid phase	in gaseous phase	
1.5	3.0	3500	16.0	38.0	5500
5.0	12.0	4000	19.5	46.0	6000
9.0	21.0	4500	23.0	53.5	6500
12.5	28.5	5000	26.0	60.0	7000

№ 4215

[1153]

**CARBON DIOXIDE -
ACETIC ACID**
CO₂-C₂H₄O₂

Solubility A cc/cc B	<i>t</i>
5.40	18
5.23	20
5.07	22
4.91	24
4.73	26
4.57	28
4.41	30
4.25	32
4.12	34
4.00	36

№ 4216

[1153]

**CARBON DIOXIDE -
BROMOETHANE**
CO₂-C₂H₅Br

Solubility A cc/cc B	<i>t</i>
2.32	18
2.27	20
2.22	22
2.16	24
2.12	26
2.07	28
2.03	30
1.97	32
1.92	34
1.86	36

№ 4217

[353]

CARBON DIOXIDE - ETHANOL (99%)
CO₂-C₂H₆O

Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>	Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
38.41	-65	2.98	20
7.51	-20	2.76	25
5.75	-10	2.57	30
4.44	0	2.20	40
3.57	10	2.01	45

№ 4218

[1697]

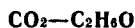
CARBON DIOXIDE - ETHANOL
CO₂-C₂H₆O

Solubility A, cc(<i>p</i> = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(<i>p</i> = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
104.8	20	30	167.9	60	80
149.7	20	40	195.7	60	100
188.8	20	50	66.05	100	60
113.1	35	40	111.2	100	80
173.0	35	60	145.7	100	100
72.82	60	40	174.6	100	120
122.5	60	60	182.6	100	130

№ 4219

CARBON DIOXIDE - ETHANOL

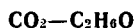
[1880]



Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>
68.4	-78	100	27.27	-59	100
69.5	-78	200	27.16	-59	200
71.4	-78	400	27.65	-59	400
74.7	-78	700	28.10	-59	700

№ 4220

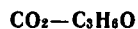
[1153]

**CARBON DIOXIDE -
ETHANOL**

Solubility A cc/cc B	<i>t</i>
2.95	18
2.87	20
2.80	22
2.73	24
2.66	26
2.58	28
2.48	30
2.41	32
2.51	34

№ 4221

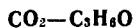
[1880]

CARBON DIOXIDE - ACETONE

Solubility A cc/cc B	<i>t</i>	<i>p</i>
196.6	--78	50
198.1	-78	100
201.5	-78	200
208.8	-78	400
67.2	-59	100
68.0	-59	200
72.8	-59	400
72.8	-59	700

№ 4222

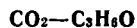
[1153]

CARBON DIOXIDE - ACETONE

Solubility A cc/cc B	<i>t</i>
6.98	20
6.76	22
6.55	24
6.22	26
5.88	28
5.49	30
5.08	32
4.66	34

№ 4223

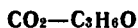
[693]

CARBON DIOXIDE - ACETONE

Solubility A cc (<i>t</i> =0, <i>p</i> =760)/g B	<i>t</i>
313.0	--73.1
133.0	--60.1
62.7	--45.1
33.1	--29.2
20.2	--13.6
13.9	--2.5
7.97	20.0

№ 4224

[1662]

CARBON DIOXIDE — ACETONE

Solubility A, cc/g B	<i>t</i>
6.88	20

№ 4225

CARBON DIOXIDE — METHYL ACETATE

[1880]



Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>
224.1	—78	50	75.8	—59	100
224.3	—78	100	77.1	—59	200
223.1	—78	200	77.6	—59	400
225.6	—78	400	79.0	—59	700

№ 4226

[1662]

**CARBON DIOXIDE —
DIMETHYLFORMAMIDE**

Solubility A, cc/g B	<i>t</i>
5.10	20

№ 4227

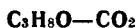
[418]

**ETHYL CARBAMATE —
CARBON DIOXIDE (LIQUID)**

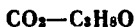
Solubility A, Wt. %	<i>t</i>
4.0	23.5

№ 4228

[418]

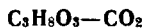
**1 - PROPANOL —
CARBON DIOXIDE (LIQUID)**

Solubility A, Wt. %	<i>t</i>
36.5	—24
57.5	—30

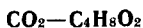


Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
56.16	20	20	64.65	60	40
86.62	20	30	111.5	60	60
122.1	20	40	159.2	60	80
174.6	20	50	213.9	60	100
40	35	20	26.5	100	40
98.16	35	40	74.51	100	60
159.9	35	60	107.7	100	80
269.6	35	80	144.7	100	100
24.73	60	20	175.4	100	120

GLYCEROL —
CARBON DIOXIDE (LIQUID)



Solubility A, Wt. %	<i>t</i>
0.05	20



Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
188.2	20	30	223.4	60	80
227.9	20	40	80.7	100	40
188.4	35	40	132.0	100	60
219.8	35	60	162.3	100	80
140.5	60	40	191.5	100	100
186.7	60	60			

№ 4232 [1880]

**CARBON DIOXIDE –
ETHYL ACETATE**
 $\text{CO}_2\text{—C}_4\text{H}_8\text{O}_2$

Solubility A cc/cc B	<i>t</i>	<i>p</i>
177.5	—78	50
177.1	—78	100
179.2	—78	200
183.2	—78	400
65.6	—59	100
65.3	—59	200
66.7	—59	400
69.7	—59	700

№ 4233 [1897]

**CARBON DIOXIDE –
ETHYL ETHER**
 $\text{CO}_2\text{—C}_4\text{H}_{10}\text{O}$

Solubility A, cc(<i>p</i> = 760)/cc Saturated Solution	<i>t</i>	<i>p</i> _{abs.} at
241.3	35	60
195.4	60	60
221.4	60	80
248.7	60	100
101	100	60
142.8	100	80
175.4	100	100

№ 4234 [493]

**CARBON DIOXIDE –
ETHYL ETHER**
 $\text{CO}_2\text{—C}_4\text{H}_{10}\text{O}$

Solubility A cc/cc B	<i>t</i>
7.330	0
6.044	10
5.465	15

№ 4235 [1946]

CARBON DIOXIDE – ETHYL ETHER
 $\text{CO}_2\text{—C}_4\text{H}_{10}\text{O}$

Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
30.6	—98.0	27.1	—63.7
36.6	—92.5	6.7	—23.8
45.4	—83.5	2.3	0.0
47.4	—78.6	1.4	15.0

№ 4236 [1153]

**CARBON DIOXIDE –
PYRIDINE**
 $\text{CO}_2\text{—C}_5\text{H}_5\text{N}$

Solubility A cc/cc B	<i>t</i>
3.95	18
3.85	20
3.75	22
3.63	24
3.53	26
3.45	28
3.33	30
3.25	32
3.13	34
3.03	36

№ 4237 [1153]

**CARBON DIOXIDE –
3-METHYL-1-BUTANOL**
 $\text{CO}_2\text{—C}_5\text{H}_{12}\text{O}$

Solubility A cc/cc B	<i>t</i>
1.91	20
1.88	22
1.85	24
1.81	26
1.76	28
1.72	30
1.69	32
1.67	34

№ 4238 [418]
p - DICHLOROBENZENE -
CARBON DIOXIDE (LIQUID)
 $C_6H_4Cl_2-CO_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.2	98.8	-33
4.2	95.8	-10
11.4	88.6	10
22.7	77.3	20
34.4	65.6	22

№ 4239 [418]
m - CHLORONITROBENZENE -
CARBON DIOXIDE
(LIQUID)
 $C_6H_4NO_2Cl-CO_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.8	98.2	-1
11.2	88.8	16.5
38.2	61.8	7.5
53.2	46.8	20

№ 4240 [418]
o - CHLORONITROBENZENE - CARBON DIOXIDE
(LIQUID)
 $C_6H_4NO_2Cl-CO_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.0	99.0	-32
7.8	92.2	5
16.5	83.5	7
36.0	64.0	7
58.8	41.2	8
65.8	34.2	11

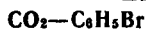
№ 4241 [1697]
CARBON DIOXIDE - CHLOROBENZENE
 $CO_2-C_6H_5Cl$

Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> abs. at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> abs. at
62.61	20	20	118.1	60	60
95.22	20	30	149.3	60	80
137.3	20	40	33.65	100	30
187.5	20	50	48.16	100	40
46.66	35	20	77.24	100	60
101.5	35	40	103.0	100	80
168.3	35	60	121.5	100	100
35.86	60	20	140.7	100	120
73.69	60	40	146.8	100	130

№ 4242

CARBON DIOXIDE – BROMOBENZENE

[1697]



Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
50.83	20	20	98.73	60	60
82.29	20	30	131.4	60	80
121.1	20	40	169.7	60	100
160.0	20	50	30.56	100	30
43.38	35	20	41.49	100	40
90.43	35	40	72.64	100	60
146.0	35	60	92.86	100	80
233.9	35	80	118.0	100	100
30.58	60	20	140.7	100	120
62.64	60	40			

№ 4243

CARBON DIOXIDE – NITROBENZENE

[1697]

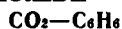


Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
57.12	20	20	31.38	60	20
92.50	20	30	52.26	60	40
115.9	20	40	72.15	60	60
155.9	20	50	85.03	60	80
44.48	35	20	41.09	100	30
94.39	35	40	50.36	100	40
145.1	35	60	70.85	100	60
227.0	35	80	86.86	100	80

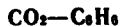
№ 4244

CARBON DIOXIDE – BENZENE

[1697]



Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, cc(p = 760)/cc Saturated Solution	<i>t</i>	<i>P</i> _{abs.} at
71.16	20	20	156.6	60	60
125.3	20	30	215.0	60	80
192.4	20	40	284.4	60	100
264.3	20	50	46.52	100	40
48.65	35	20	91.27	100	60
138.3	35	40	155.8	100	80
243.1	35	60	212.9	100	100
34.57	60	20	258.2	100	120
88.71	60	40			



Solubility A, Mol. %	<i>t</i>	<i>P</i> _{abs} at	Solubility A, Mol. %	<i>t</i>	<i>P</i> _{abs} at
13.1	30	10.9	17.2	50	19.5
17.2	30	14.2	20.2	50	23.0
21.3	30	17.7	24.3	50	27.4
25.5	30	20.9	28.7	50	32.4
30.0	30	24.8	34.3	50	37.0
34.2	30	27.5	36.6	50	40.8
40.3	30	34.0	40.0	50	43.7
48.0	30	38.6	43.3	50	47.8
53.4	30	41.9	52.5	50	56.5
54.5	30	42.6	54.5	50	58.6
58.5	30	44.8	62.4	50	65.6
62.2	30	46.8	65.7	50	68.0
65.4	30	47.2	71.4	50	72.0
75.5	30	53.6	72.4	50	74.8
80.8	30	55.8	78.2	50	77.3
84.0	30	58.8	85.4	50	81.6
88.2	30	61.6	90.5	50	82.8
12.4	40	12.2	7.5	60	10.2
22.1	40	21.6	16.1	60	21.4
31.0	40	30.5	22.7	60	29.8
38.4	40	37.1	30.0	60	40.8
43.4	40	41.7	36.7	60	49.0
50.8	40	47.6	42.5	60	57.1
58.2	40	52.5	49.5	60	64.9
67.2	40	57.8	57.6	60	74.8
75.8	40	63.9	65.7	60	81.6
83.6	40	69.0	78.8	60	89.9
11.6	50	13.6	88.0	60	95.2

№ 4246

[1662]

CARBON DIOXIDE -

BENZENE

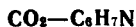


Solubility A cc/g B	<i>t</i>
2.66	20

№ 4247

CARBON DIOXIDE - ANILINE

[1153]

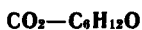


Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
1.38	20	1.22	30
1.35	22	1.21	32
1.32	24	1.19	34
1.29	26	1.17	36
1.25	28		

№ 4248

[470]

**CARBON DIOXIDE —
CYCLOHEXANOL**

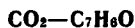


Solubility A cc/cc B	<i>t</i>
0.677	26

№ 4249

[1153]

CARBON DIOXIDE — BENZALDEHYDE

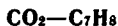


Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
3.06	18	2.66	28
2.98	20	2.58	30
2.90	22	2.52	32
2.80	24	2.46	34
2.73	26	2.39	36

№ 4250

[1697]

CARBON DIOXIDE — TOLUENE

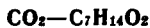


Solubility A cc/cc B	<i>t</i>	<i>P</i> _{abs.} at	Solubility A cc/cc B	<i>t</i>	<i>P</i> _{abs.} at
57.91	20	20	171.9	60	80
103.3	20	30	210.0	60	100
155.9	20	40	28.68	100	30
235.8	20	50	49.25	100	40
49.8	35	20	85.98	100	60
118.8	35	40	117.6	100	80
192.1	35	60	149.0	100	100
78.67	60	40	171.8	100	120
128.1	60	60	178.2	100	130

№ 4251

[1153]

CARBON DIOXIDE — PENTYL ACETATE



Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
4.79	18	4.29	28
4.65	20	4.14	30
4.55	22	4.10	32
4.44	24	4.02	34
4.35	26		

№ 4252 [1447]

**CARBON DIOXIDE --
POLYSTYRENE**
CO₂—(C₈H₈)_n
t = 170

Solubility A cc (t=0, p=760)/g B	P _{abs.} at
3.04	50
2.82	51

№ 4253 [1662]

**CARBON DIOXIDE --
DIMETHYLBENZENE**



Solvent	Solubility A cc/100 g B	t
m-Xylene	2.19	20
o-Xylene	2.085	20
p-Xylene	2.20	20

№ 4254 [418]

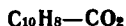
**NAPHTHALENE -- CARBON
DIOXIDE (LIQUID)**



Mutual Solubility, wt. %		t
A	B	
8	92	34.8
54	46	64
100	0	80

№ 4255 [1579]

**NAPHTHALENE -- CARBON
DIOXIDE (LIQUID)**



Solubility A, Mol. %	t	d ₄ ^t
0.180	-21	1.040
0.372	0	0.938
0.511	10	0.872
0.662	20	0.790
0.698	25	0.740

№ 4256 [1578]

**LUBRICATING OIL* --
CARBON DIOXIDE**
— — — — — CO₂

Solubility A, Wt. %	t
0.712	25
0.836	20
0.896	10
0.794	0
0.386	-20

№ 4257

[1611]

CARBON DIOXIDE -- PARAFFIN (MOL. WT. 350)



t = 72.2

Solubility A		p
cc/g	Mol. %	
0.208	0.325	257.5
0.329	0.514	379.5
0.457	0.714	505.5
0.571	0.892	613.1
0.704	1.10	752.5

* A - colorless and odorless, d₄²⁰ 0.8537

CO₂—

Solvent		Solubility A cc/cc B		
Name	Formula	t=15	t=20	t=25
Glycerol	C ₃ H ₈ O ₃	—	—	0.0302
Carbon Disulfide	CS ₂	0.9446	0.8888	0.8699
Iodobenzene	C ₆ H ₅ I	1.440	1.371	1.301
Aniline	C ₆ H ₇ N	1.531	1.434	1.324
o-Toluidine	C ₇ H ₉ N	1.539	1.473	1.381
m- "		1.730	1.581	1.436
Eugenol	C ₁₀ H ₁₂ O ₂	1.762	1.653	1.539
Trichlorobenzene	C ₆ H ₃ Cl ₃	—	—	1.643
Cumene	C ₉ H ₁₂	1.978	1.879	1.782
d-Limonene	C ₁₀ H ₁₆	2.030	1.921	1.802
Dichloropropanol	C ₃ H ₆ OCl ₂	2.034	1.917	1.810
1-Pentanol	C ₅ H ₁₂ O	2.058	1.941	1.831
Bromobenzene	C ₆ H ₅ Br	2.092	1.964	1.842
2-Methyl-1-propanol	C ₄ H ₁₀ O	2.088	1.934	1.849
Benzyl Chloride	C ₇ H ₇ Cl	2.180	2.072	1.938
1,3-Dimethylbenzene	C ₈ H ₁₀	2.346	2.216	2.090
Bromoethane	C ₂ H ₅ Br	2.424	2.294	2.157
Chlorobenzene	C ₆ H ₅ Cl	2.581	2.420	2.265
Carbon Tetrachloride	CCl ₄	2.603	2.502	2.294
1-Bromopropane	C ₃ H ₇ Br	2.586	2.453	2.301
Toluene	C ₇ H ₈	2.557	2.426	2.305
Benzene	C ₆ H ₆	2.710	2.540	2.425
1-Bromopentane	C ₅ H ₁₁ Br	2.803	2.638	2.455
Nitrobenzene	C ₆ H ₅ NO ₂	2.845	2.655	2.456
1-Propanol	C ₃ H ₈ O	—	—	2.498
d-Carvone	C ₁₀ H ₁₄ O	2.914	2.690	2.498
Ethanol 97%	C ₂ H ₆ O	3.130	2.923	2.706
Benzaldehyde	C ₇ H ₆ O	3.304	3.057	2.841
1-Chloropentane	C ₅ H ₁₁ Cl	3.363	3.127	2.910
1-Chloro-2-methylpropane	C ₄ H ₉ Cl	3.659	3.388	3.105
Chloroform	CHCl ₃	3.956	3.681	3.430
Butanoic Acid	C ₄ H ₈ O ₂	4.084	3.767	3.478
Chloroethane	C ₂ H ₅ Cl	4.061	3.795	3.525
Pyridine	C ₅ H ₅ N	4.291	3.862	3.656
Methanol	CH ₄ O	4.606	4.205	3.837
Pentyl Formate	C ₆ H ₁₂ O ₂	4.646	4.329	4.026
Propanoic Acid	C ₃ H ₆ O ₂	4.787	4.407	4.078
Pentyl Acetate	C ₇ H ₁₄ O ₂	4.850	4.411	4.119
Acetic Acid	C ₂ H ₄ O ₂	5.614	5.129	4.679
2-Methylpropyl Acetate	C ₆ H ₁₂ O ₂	—	4.968	4.691
Acetic Anhydride	C ₄ H ₆ O ₃	6.218	5.720	5.206
Acetone	C ₃ H ₆ O	—	6.921	6.295
Methyl Acetate	C ₃ H ₆ O ₂	—	—	6.494

CO₂ —

t = 25

Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	Solvent
Tribromomethane	CHBr ₃	40	60
"	"	70	30
Di-iodomethane	CH ₂ I ₂	30	70
"	"	70	30
Formamide	CH ₃ NO	10	90
"	"	99.5	0.5
Tetrabromoethane	C ₂ H ₂ Br ₄	10	90
"	"	99	1
Chloroacetic Acid	C ₂ H ₃ O ₂ Cl	90	10
Chloralhydrate	C ₂ H ₃ O ₂ Cl ₃	98	2
β-Chloroethanol	C ₂ H ₅ OCl	40	60
"	"	90	10
Acetamide	C ₂ H ₅ NO	99	1
Ethylene Glycol	C ₂ H ₆ O ₂	7	93
"	"	99.8	0.2
3-Hydroxypropanenitrile	C ₃ H ₅ NO	30	70
"	"	99	1
2-Chloropropanoic Acid	C ₃ H ₅ O ₂ Cl	52	48
"	"	74	26
Lactic Acid	C ₃ H ₆ O ₃	8	92
"	"	99.5	0.5
Propylene Glycol	C ₃ H ₈ O ₂	10	90
"	"	99.5	0.5
Glycerol	C ₃ H ₈ O ₃	7	93
"	"	99.95	0.05
Maleic Anhydride	C ₄ H ₂ O ₃	55	45
"	"	92.5	7.5
3-Hydroxybutanal	C ₄ H ₈ O ₂	31	69
"	"	89	11
2-Hydroxyethyl Acetate	C ₄ H ₈ O ₂	50	50
"	"	83	17
Glycerol Monoacetate	C ₅ H ₁₀ O ₄	10	90
"	"	99	1
Diethylene Glycol	C ₄ H ₁₀ O ₃	10	90
"	"	99	1
Furfuryl Alcohol	C ₅ H ₆ O ₂	30	70
"	"	96	4
Tetrahydrofurfuryl Alcohol	C ₅ H ₁₀ O ₂	20	80
"	"	97	3
2, 4-Dinitrochlorobenzene	C ₆ H ₃ N ₂ O ₄ Cl	15	85
"	"	99	1
2, 4-Dichlorophenol	C ₆ H ₄ OCl ₂	30	70
"	"	86	14

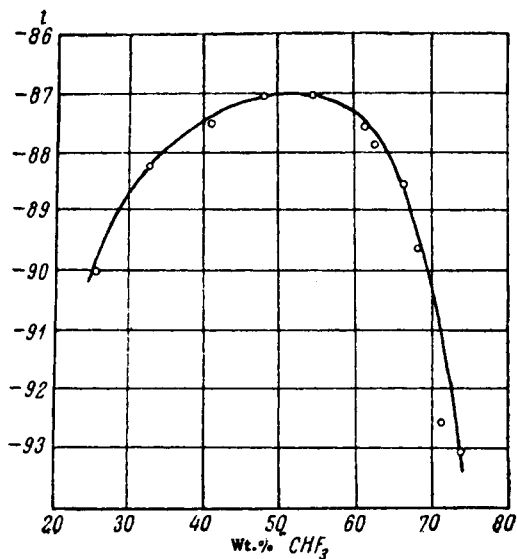
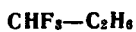
Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	Solvent
o - Nitrochlorobenzene	$C_6H_4NO_2Cl$	42	58
"	"	79	21
p - Chlorophenol	C_6H_5OCl	25	75
"	"	92	8
Phenol	C_6H_5O	97	3
1, 3 - Benzenediol	$C_6H_6O_2$	99.9	0.1
m - Chloroaniline	C_6H_6NC1	23	77
"	"	99	1
o - Chloroaniline	"	25	75
"	"	95	5
Aniline	C_6H_7N	20	80
"	"	97	3
2, 5 - Dimethylpyrrole	C_8H_9N	32	68
"	"	95	5
Cyclohexanol	$C_6H_{12}O$	20	80
"	"	96	4
2, 3 - Dimethyl - 2, 3 - butanediol	$C_8H_{14}O_2$	23	77
"	"	98	2
Dipropylene Glycol	$C_8H_{14}O_3$	15	85
"	"	98	2
Triethylene Glycol	$C_8H_{14}O_4$	12	88
"	"	98	2
Phenyltrichloromethane	$C_7H_5Cl_3$	20	80
"	"	98	2
N - Phenylformamide	C_7H_7NO	10	90
"	"	99.5	0.5
p - Nitrotoluene	$C_7H_7NO_2$	56	44
"	"	80	20
o - Nitromethoxybenzene	$C_7H_7NO_3$	35	65
"	"	98	2
Benzyl Alcohol	C_7H_8O	27	73
"	"	92	8
m - Cresol	C_7H_8O	20	80
"	"	96	4
o - Cresol	"	30	70
"	"	98	2
p - Cresol	"	30	70
"	"	98	2
m - Toluidine	C_7H_9N	40	60
"	"	85	15
o - Toluidine	"	37	63
"	"	93	7
p - Toluidine	"	37	63
"	"	93	7
N - Methylaniline	"	40	60
"	"	80	20
o - Methoxyaniline	C_7H_9NO	20	80
"	"	99	1

Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	Solvent
p - Methylcyclohexanol	$C_7H_{14}O$	20	80
"	"	96	4
1 - Heptanol	$C_7H_{16}O$	38	62
"	"	93.8	6.2
Phthalyl Chloride	$C_8H_4O_2Cl_2$	33	67
"	"	96	4
3, 4 - Methyleneedioxybenzaldehyde	$C_8H_6O_3$	45	55
"	"	90	10
Benzyl Cyanide	C_8H_7N	52	48
"	"	87	13
Mandelonitrile	C_8H_7NO	20	80
"	"	98	2
3, 5 - Dimethylphenol	$C_9H_{10}O$	99	1
Phenylethanol	"	15	85
"	"	97	3
p - Ethylphenol	"	8	92
"	"	99	1
3, 4 - Dimethylaniline	$C_8H_{11}N$	33	67
"	"	91	9
N - Ethylaniline	"	35	65
"	"	87	13
Phenylethanolamine	$C_8H_{11}NO$	15	85
"	"	99	1
p - Ethoxyaniline	"	12	88
"	"	99	1
2 - Ethylhexanol	$C_8H_{18}O$	53	47
"	"	83	17
3 - Phenylpropenal	C_9H_8O	20	80
"	"	96	4
Methyl Hydrogen Phthalate	$C_9H_8O_4$	43	57
"	"	94	6
Cinnamic Alcohol	$C_9H_{10}O$	20	80
"	"	95	5
Hydrocinnamic Aldehyde	$C_9H_{10}O$	55	45
"	"	83	17
Ethyl o - Aminobenzoate	$C_9H_{11}NO_2$	40	60
"	"	94	6
1 - Chloronaphthalene	$C_{10}H_7Cl$	15	85
"	"	99	1
1 - Nitronaphthalene	$C_{10}H_7NO_2$	99	1
"	"	99	1
Naphthalene	$C_{10}H_8$	98	2
1 - Naphthylamine	$C_{10}H_9N$	20	80
"	"	99	1
o - Phenylphenol	$C_{10}H_{10}O$	99	1
Benzylideneacetone	"	40	60
"	"	95	5
Ethyl Hydrogen Phthalate	$C_{10}H_{10}O_4$	60	40
"	"	90	10

Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	Solvent
1, 2, 3, 4 - Tetrahydronaphthalene	$C_{10}H_{12}$	41	59
"	"	88	12
Thymol	$C_{10}H_{14}O$	41	59
"	"	91	9
N, N - Diethylaniline	$C_{10}H_{15}N$	45	55
"	"	83	17
Decahydronaphthalene	$C_{10}H_{18}$	42	58
"	"	78	22
1 - Decanol	$C_{10}H_{22}O$	30	70
"	"	99	1
1 - Methylnaphthalene	$C_{11}H_{10}$	30	70
"	"	94	6
2 - Methylnaphthalene	"	29	71
"	"	91	9
1 - Methoxynaphthalene	$C_{11}H_{10}O$	15	85
"	"	99	1
2 - Chloro - 6 - Phenylphenol	$C_{12}H_9OCl$	20	80
"	"	99	1
o - Nitrobiphenyl	$C_{12}H_9NO_2$	15	85
"	"	98	2
Biphenyl	$C_{12}H_{10}$	98	2
Phenoxybenzene	$C_{12}H_{10}O$	35	65
"	"	92	8
Diphenylamine	$C_{12}H_{11}N$	99	1
Dimethylnaphthalene (mixed)	$C_{12}H_{12}$	40	60
"	"	98	2
Butyl Hydrogen Phthalate	$C_{12}H_{14}O_4$	55	45
"	"	92	8
Phenylcyclohexane	$C_{12}H_{16}$	35	65
"	"	92	8
Dodecanoic Acid	$C_{12}H_{24}O_2$	40	60
"	"	99	1
Benzophenone	$C_{13}H_{10}O$	25	75
"	"	96	4
Phenyl o - Hydroxybenzoate	$C_{13}H_{10}O_3$	38	62
"	"	91	9
Diphenylmethane	$C_{13}H_{12}$	30	70
"	"	96	4
2 - Methoxybiphenyl	$C_{13}H_{12}O$	20	80
"	"	95	5
Benzoic Anhydride	$C_{14}H_{10}O_3$	20	80
"	"	97	3
Phenyl Hydrogen Phthalate	$C_{14}H_{10}O_4$	99	1
Benzyl Benzoate	$C_{14}H_{12}O_2$	40	60
"	"	90	10
Bibenzyl	$C_{14}H_{14}$	99	1
N, N' - Diphenylethylenediamine	$C_{14}H_{16}N_2$	99	1

Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	Solvent
n-Tetradecane	$C_{14}H_{30}$	50	50
"	"	84	16
Ethylbenzylaniline	$C_{16}H_{17}N$	33	67
"	"	96	4
Hexadecane	$C_{16}H_{34}$	38	62
"	"	92	8
9-Octadecenoic Acid	$C_{18}H_{34}O_2$	22	78
"	"	98	2
1-Octadecene	$C_{18}H_{36}$	26	74
"	"	90	10
n-Octadecane	$C_{18}H_{38}$	30	70
"	"	97	3
Butyl Octadecanoate	$C_{22}H_{44}O_2$	55	45
"	"	97	3
Castor Oil	—	15	85
"	—	99	1
Olive Oil	—	20	80
"	—	96	4
Transformer Oil	—	14	86
"	—	98	2
Lubricating Oil	—	20	80
"	—	99.3	0.7
Crystal Oil (purified Castor Oil)	—	20	80
"	—	99	1
Fuel Oil	—	42	58
"	—	82	18

TRIFLUOROMETHANE - ETHANE

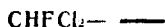


CHLORODIFLUOROMETHANE - VARIOUS SOLVENTS



$$t = 32.2, P_{\text{abs.}} = 5.9$$

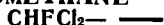
Solvent		Solubility A, Wt. %
A	B	
Diethylene Glycol Monoethyl Ether Acetate	$\text{C}_8\text{H}_{16}\text{O}_4$	53.33
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	52.15
Diethylene Glycol Diethyl Ether	$\text{C}_8\text{H}_{18}\text{O}_3$	52.98



$$t = 32$$

Solvent		Solubility A, g/cc B (at p = 638)
Name	Formula	
Ethylene Glyco Monoethyl Ether Acetate	$\text{C}_8\text{H}_{12}\text{O}_3$	1.00
Diethylene Glycol Monoethyl Ether Acetate	$\text{C}_8\text{H}_{16}\text{O}_4$	0.97
" " Diethyl Ether	$\text{C}_8\text{H}_{18}\text{O}_3$	1.05
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	1.04
" " Diethyl Ether	$\text{C}_{12}\text{H}_{26}\text{O}_5$	0.93
Triethylene Glycol Dimethyl Ether	$\text{C}_8\text{H}_{22}\text{O}_5$	0.98
Diethylene Glycol Monoethyl Ether Methoxyacetate	$\text{C}_9\text{H}_{14}\text{O}_5$	0.89
" " Mono-n-butyl Ether Acetate	$\text{C}_7\text{H}_{14}\text{O}_4$	0.70
" " Diacetate	$\text{C}_8\text{H}_{14}\text{O}_5$	0.88
4-Methyl-2-pentanol Acetate	$\text{C}_8\text{H}_{16}\text{O}_2$	0.72
2,3-Di- β -ethoxy- β -ethoxydioxane	$\text{C}_{12}\text{H}_{24}\text{O}_6$	0.85
1-(3-Chloropropoxy)3-chloropropane	$\text{C}_6\text{H}_{12}\text{OCl}_2$	0.49
2-(1-Chloroisopropoxy)1-chloropropane	$\text{C}_6\text{H}_{12}\text{OCl}_2$	0.49
1-Fluoronaphthalene	$\text{C}_{10}\text{H}_7\text{F}$	0.37
Ethylene Glycol Mono-n-butyl Ether Butanoate	$\text{C}_{11}\text{H}_{22}\text{O}_4$	0.65
" " " " " " Acetate	$\text{C}_8\text{H}_{16}\text{O}_3$	0.75
" " " " " " Dodecanoate	$\text{C}_{18}\text{H}_{36}\text{O}_3$	0.44
" " n-Butyl Ether Tetrahydrofurfuryl Ether	$\text{C}_{11}\text{H}_{22}\text{O}_3$	0.75
Ethylene Glycol Monotetrahydrofurfuryl Ether Acetate	$\text{C}_9\text{H}_{16}\text{O}_4$	0.86
Diethylene Glycol Monomethyl Ether Acetate	$\text{C}_8\text{H}_{14}\text{O}_4$	1.00
" " Mono-n-butyl Ether Chloride	$\text{C}_8\text{H}_{17}\text{O}_2\text{Cl}$	0.63
Triethylene Glycol Monomethyl Ether Acetate	$\text{C}_9\text{H}_{18}\text{O}_5$	0.91
Tetrahydrofurfuryl Dodecanoate	$\text{C}_{17}\text{H}_{32}\text{O}_3$	0.50
" " Acetate	$\text{C}_7\text{H}_{12}\text{O}_3$	0.87
1,3-Dichloro-2-propanol Acetate	$\text{C}_5\text{H}_7\text{O}_2\text{Cl}_2$	0.55
Ethyl Dodecanoate	$\text{C}_{14}\text{H}_{28}\text{O}_2$	0.48
2-Ethyl-1-hexanol Acetate	$\text{C}_{10}\text{H}_{20}\text{O}_2$	0.63
Furfuryl Acetate	$\text{C}_7\text{H}_{10}\text{O}_3$	0.65
Ethyl Furonate	$\text{C}_7\text{H}_{10}\text{O}_3$	0.76
Furfural	$\text{C}_5\text{H}_4\text{O}_2$	0.72
1,2,3,4-Tetrahydronaphthalene	$\text{C}_{10}\text{H}_{12}$	0.46
Decahydronaphthalene	$\text{C}_{10}\text{H}_{18}$	0.24
Phenyltrifluoromethane	$\text{C}_7\text{H}_7\text{F}_3$	0.40
4-Fluoro-1-methoxybenzene	$\text{C}_7\text{H}_7\text{OF}$	0.56
Ethylene Glycol Monoethyl Ether Glycolate	$\text{C}_8\text{H}_{12}\text{O}_4$	0.57
" " " " Succinate	$\text{C}_{12}\text{H}_{22}\text{O}_6$	0.70
" " " " Adipate	$\text{C}_{14}\text{H}_{26}\text{O}_6$	0.75
" " Monobenzyl Ether	$\text{C}_9\text{H}_{12}\text{O}_2$	0.42
" " " " Acetate	$\text{C}_{11}\text{H}_{14}\text{O}_3$	0.65
" " Monomethyl Ether o-Phthalate	$\text{C}_{14}\text{H}_{18}\text{O}_6$	0.59
" " Mono-n-butyl Ether o-Phthalate	$\text{C}_{20}\text{H}_{30}\text{O}_6$	0.51
" " Diacetate	$\text{C}_6\text{H}_{10}\text{O}_4$	0.91
" " Monomethyl Ether Carbonate	$\text{C}_7\text{H}_{14}\text{O}_5$	0.77
Diethylene Glycol Monoethyl Ether Levulinate	$\text{C}_{11}\text{H}_{20}\text{O}_5$	0.75
Ethylene Glycol Diethoxyacetate	$\text{C}_{10}\text{H}_{18}\text{O}_6$	0.75

Solvent		Solubility A, g/cc B (at p = 638)
Name	Formula	
Diethylene Glycol Diethoxyacetate	$C_{12}H_{22}O_7$	0.71
" " Monoethyl Ether Ethoxyacetate	$C_{10}H_{20}O_3$	0.84
" " Dimethoxyacetate	$C_{13}H_{18}O_7$	0.71
" " Monomethyl Ether Methoxyacetate	$C_8H_{16}O_5$	0.93
" " " " Chloride	$C_5H_{11}O_2Cl$	0.80
" " Ditetrahydrofurfuryl	$C_{14}H_{26}O_5$	0.86
Ether		
Ethylene Glycol Monotetrahydrofurfuryl Ether Acetate	$C_5H_{10}O_4$	0.86
Triethylene Glycol Dimethoxyacetate	$C_{12}H_{22}O_3$	0.72
Ethylene Glycol Di- β -chloroethyl Ether	$C_6H_{12}O_2Cl_2$	0.54
Triethylene Glycol Acetate Methoxyacetate	$C_{11}H_{20}O_7$	0.89
" " Diacetate	$C_{10}H_{18}O_6$	0.85
Hexaethylene Glycol Dimethyl Ether	$C_{14}H_{30}O_7$	0.88
2, 3-Di- β' -methoxy- β' -ethoxy- β -ethoxydioxane	$C_{14}H_{28}O_8$	0.74
Triethylene Glycol Monomethyl Ether Chloride	$C_7H_{15}O_3Cl$	0.84
Trimethylene Glycol Diacetate	$C_7H_{12}O_4$	0.90
Trimethylene Glycol Dimethoxyacetate	$C_9H_{16}O_6$	0.77
Tetrahydrofurfuryl Methoxyacetate	$C_8H_{14}O_4$	0.94
" " Benzoate	$C_{12}H_{14}O_3$	0.62
Glycerol Triacetate	$C_9H_{14}O_8$	0.73
" Tripropanoate	$C_{12}H_{20}O_6$	0.67
" Tributanoate	$C_{15}H_{26}O_6$	0.49
" Trihexanoate	$C_{21}H_{38}O_6$	0.51
Ethylene Glycol	$C_2H_6O_2$	0.11
Diethylene Glycol	$C_4H_{10}O_3$	0.32
Triethylene Glycol	$C_6H_{14}O_4$	0.40
Trimethylene Glycol	$C_3H_8O_2$	0.12
Tetrahydrofurfuryl Alcohol	$C_5H_{10}O_2$	0.62
n-Butyl n-Butanoate	$C_8H_{16}O_2$	0.76
Diethyl Phthalate	$C_{12}H_{14}O_4$	0.65
" Acetonedicarboxylate	$C_9H_{14}O_5$	0.66
Ethyl Levulinate	$C_7H_{12}O_3$	0.91
1, 3-Diethoxybenzene	$C_{10}H_{14}O_2$	0.52
1-Menthone	$C_{10}H_{16}O$	0.71
Diphenyl Sulfide	$C_{12}H_{10}S$	0.32



$$t = 4.5$$

Solvent		Solubility A, Mol. %
Name	Formula	
1-Hexanol	$\text{C}_6\text{H}_{14}\text{O}$	29.6
Cyclohexanol	$\text{C}_6\text{H}_{12}\text{O}$	27.4
Phenol	$\text{C}_6\text{H}_6\text{O}$	19.7
Ethylene Glycol	$\text{C}_2\text{H}_6\text{O}_2$	5.5
Trimethylene Glycol	$\text{C}_3\text{H}_8\text{O}_2$	7.3
Methoxycyclohexane	$\text{C}_7\text{H}_{14}\text{O}$	49.8
Methoxybenzene	$\text{C}_7\text{H}_8\text{O}$	41.5
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	70.6
Acetic Acid	$\text{C}_2\text{H}_4\text{O}_2$	28.6
Propanoic Acid	$\text{C}_3\text{H}_6\text{O}_2$	33.0
Ethyl Dodecanoate	$\text{C}_{14}\text{H}_{28}\text{O}_2$	55.6
Ethyl Octanoate	$\text{C}_{10}\text{H}_{20}\text{O}_2$	55.7
Heptanal	$\text{C}_7\text{H}_{14}\text{O}$	51.9
Cyclohexanone	$\text{C}_6\text{H}_{10}\text{O}$	54.8
2, 4 - Pentanedione	$\text{C}_5\text{H}_8\text{O}_2$	49.9
2, 5 - Hexanedione	$\text{C}_6\text{H}_{10}\text{O}_2$	56.3
Cyclohexylamine	$\text{C}_6\text{H}_{13}\text{N}$	50.6
Aniline	$\text{C}_6\text{H}_7\text{N}$	25.8
N, N, - Dimethylcyclohexylamine	$\text{C}_8\text{H}_{17}\text{N}$	50.0
N, N, - Dimethylaniline	$\text{C}_8\text{H}_{11}\text{N}$	42.5
Quinoline	$\text{C}_8\text{H}_7\text{N}$	44.3
N - Methylacetamide	$\text{C}_4\text{H}_7\text{NO}$	40.3
N, N - Dimethylacetamide	$\text{C}_5\text{H}_{11}\text{NO}$	61.4
Pentanenitrile	$\text{C}_5\text{H}_9\text{N}$	55.0
Benzonitrile	$\text{C}_7\text{H}_7\text{N}$	43.8
Nitrobutane	$\text{C}_4\text{H}_9\text{NO}_2$	43.8
Nitrobenzene	$\text{C}_6\text{H}_5\text{NO}_2$	36.0
2 - Butanone Oxime	$\text{C}_4\text{H}_9\text{NO}$	33.8
n - Decane	$\text{C}_{10}\text{H}_{22}$	30.9
Mesitylene	C_9H_{10}	43.7
Bromobenzene	$\text{C}_6\text{H}_5\text{Br}$	33.8
n - Bromohexane	$\text{C}_6\text{H}_{13}\text{Br}$	39.0

CHLOROMETHANE –
CHLOROFORM
 $\text{CH}_3\text{Cl} - \text{CHCl}_3$

Solubility A cc/cc B	t
276.8	-5
202.5	0
158.3	5
119.5	10
93.5	15
72.9	20

CHLOROMETHANE –
CHLOROFORM
 $\text{CH}_3\text{Cl} - \text{CHCl}_3$
t = 25

Solubility A, Mol. %	p
0.00	197.1
2.30	270.7
6.27	404.9
10.74	558.2
14.83	702.3
19.12	855.2
22.32	973.0

№ 4266

CHLORAL HYDRATE – CHLOROFORM

[1862]



Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B	A		B		
3.66	96.34	0	13.43	86.57	20	
3.94	96.06	5	24.81	75.19	25	
4.94	95.06	10	39.39	60.61	27.7	
7.41	92.59	15				

№ 4267

[1520]

**DIMETHYLAMMONIUM
CHLORIDE – CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
14.46	25

№ 4268

[1520]

**ETHYLAMMONIUM
CHLORIDE – CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
0.17	25

№ 4269

[2050]

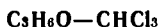
**FORMAMIDINE DISULFIDE
DIHYDROIODIDE – CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
0.7	20

№ 4270

ACETONE – CHLOROFORM

[2115]

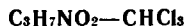


Mutual Solubility, Mol. %			m.p	Mutual Solubility, Mol. %		m.p
A	B	A		B		
100.0	0.0	—96	45.0	55.0	—105	
79.0	21.0	—110	38.0	62.0	—117	
73.0	27.0	—117	34.0	66.0	—100	
66.5	33.5	—110	23.0	77.0	—80	
50.0	50.0	—99.5	0.0	100.0	—62	

№ 4271

ETHYL CARBAMATE – CHLOROFORM

[1862]



Mutual Solubility, Wt. %				Mutual Solubility, Wt. %			
A	B	<i>t</i>	d_4^t	A	B	<i>t</i>	d_4^t
22.12	77.88	0	1.404	53.92	46.08	25	1.240
34.64	65.36	10	1.340	61.83	38.17	30	1.203
39.39	60.61	15	1.310	73.82	26.18	40	1.125
45.95	54.05	20	1.280				

№ 4272

[1520]

**PROPYLAMMONIUM
CHLORIDE – CHLOROFORM**



Solubility A, Wt.%	t
5.0	25

№ 4273

CHLOROFORM – ETHYL ETHER

[1853]



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0.0	100.0	-116.4	50.0	51.0	-91.4
5.13	91.87	-118.3	55.0	45.0	-95.1
10.01	89.99	-119.9	60.0	40.0	-95.4
14.89	85.01	-121.5	61.0	39.0	-96.0
18.65	81.35	-118.4	65.0	35.0	-93.6
21.0	80.0	-117.6	66.66	33.34	-93.5
27.0	73.0	-114.3	68.0	32.0	-93.6
30.65	69.95	-111.4	70.0	30.0	-93.5
33.33	66.67	-108.1	81.77	18.23	-78.7
35.00	65.00	-104.8	90.04	9.96	-72.6
40.00	60.00	-99.7	100.0	0.0	-66.5
45.13	54.87	-95.8			

№ 4274

[1520]

**DIETHYLAMMONIUM
CHLORIDE – CHLOROFORM**



Solubility A, Wt.%	m.p
22.7	25

№ 4275

[1520]

**2-METHYL-1-PROPYLAMMONIUM
CHLORIDE – CHLOROFORM**



Solubility A, Wt.%	m.p
10.36	25

№ 4276

[1520]

**DIETHYLAMMONIUM
BROMIDE – CHLOROFORM**



Solubility A, Wt.%	t
31.8	25

№ 4277

[1520]

**DIETHYLAMMONIUM
IODIDE – CHLOROFORM**



Solubility A, Wt.%	t
41.7	25

№ 4278 [1520]

**3-METHYL-1-BUTYLAMMONIUM
CHLORIDE – CHLOROFORM**
 $C_5H_{13}N \text{ HCl} - CHCl_3$

Solubility A, Wt. %	<i>t</i>
4.85	25

№ 4279 [1772]

**PICRIC ACID –
CHLOROFORM**
 $C_6H_3N_3O_7 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
1.96	15

№ 4280 [409]

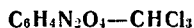
**1, 2, 4-TRINITROBENZENE –
CHLOROFORM**
 $C_6H_3N_3O_6 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
11.40	15.5

№ 4281

m-DINITROBENZENE – CHLOROFORM

[1751]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
22.2	77.8	15	42.0	58.0	40
25.0	75.0	20	52.5	47.5	50
29.0	71.0	25	65.0	35.0	60
33.0	67.0	30			

№ 4282

BENZENE – CHLOROFORM

[2112]



Mutual Solubility Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	−63.5	39.0	61.0	−40
11.8	88.2	−70	47.8	52.2	−30
14.7	85.3	−75	58.3	41.7	−20
18.4	81.6	−81.7	70.8	29.2	−10
22.6	77.4	−70	88.0	12.0	0
26.8	73.2	−60	100.0	0.0	5
32.0	68.0	−50			

№ 4283 [2013]
1, 3 - BENZENEDIOL - CHLOROFORM
 $C_6H_6O_2-CHCl_3$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
0.63	99.37	30
0.84	99.16	40
1.06	98.94	50
1.27	98.73	60
1.48	98.52	70
1.70	98.30	80
5.64	94.36	90
78.50	21.50	100
100.00	0.00	109.4

№ 4284 [2013]
1, 2 - BENZENEDIOL - CHLOROFORM
 $C_6H_6O_2-CHCl_3$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
2.10	97.90	20
2.70	97.30	30
3.30	96.70	40
4.32	95.68	50
7.38	92.62	60
14.70	85.30	70
39.20	60.80	80
67.18	32.82	90
89.45	10.55	100
100.00	0.00	104.5

№ 4285 [1515]
NITROANILINE - CHLOROFORM
 $C_6H_5N_2O_2-CHCl_3$

Solubility A, Wt.%	<i>t</i>
21.77	20

№ 4286 [519]
m - NITROANILINE - CHLOROFORM
 $C_6H_5N_2O_2-CHCl_3$

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
2.6	97.4	25	19.0	81.0	70
3.1	96.9	30	33.1	66.9	80
4.4	95.6	40	54.0	46.0	90
6.6	93.4	50	73.3	26.7	100
10.8	89.2	60	95.5	4.5	110

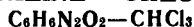
№ 4287 [519]
o - NITROANILINE - CHLOROFORM
 $C_6H_5N_2O_2-CHCl_3$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
23.0	77.0	25
28.4	71.6	30
42.0	58.0	40
60.0	40.0	50
77.3	22.7	60

№ 4288

p-NITROANILINE – CHLOROFORM

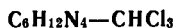
[519]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.8	99.2	25	5.3	94.7	80
1.0	99.0	30	8.8	91.2	90
1.3	98.7	40	16.1	83.9	100
1.8	98.2	50	29.8	70.2	110
2.5	97.5	60	51.0	49.0	120
3.8	96.2	70	86.5	13.5	140

№ 4289

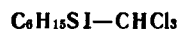
[588]

HEXAMETHYLENETETRAMINE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
7.48	12

№ 4290

[1520]

TRIETHYLSULFONIUM IODIDE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
32.3	25

№ 4291

[1520]

TRIETHYLAMMONIUM CHLORIDE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
14.80	25

№ 4292

[1520]

DIPROPYLAMMONIUM CHLORIDE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
32.1	25

№ 4293

[1520]

TRIETHYLAMMONIUM BROMIDE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
19.0	25

№ 4294

[1520]

TRIETHYLAMMONIUM IODIDE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
47.97	25

№ 4295

[907]

**PERFLUOROMETHYLCYCLO-
HEXANE – CHLOROFORM**

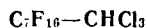


Mutual Solubility, Mol.%		<i>t</i>
A	B	
4.0	96.0	26.3
8.4	91.6	41.0
11.0	89.0	46.6
14.2	85.8	48.9
21.6	78.4	50.2
29.2	70.8	50.1
38.2	61.8	49.0
57.8	42.2	38.6
67.3	32.7	28.9
80.5	19.5	7.2

№ 4296

[909]

**PERFLUOROHEPTANE –
CHLOROFORM**

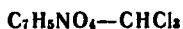


Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.6	96.4	55.8
8.5	91.5	72.8
12.8	87.2	77.3
18.6	81.4	78.4
26.0	74.0	78.2
35.8	64.2	75.7
45.5	54.5	69.9
59.5	40.5	55.8
77.6	22.4	24.6

№ 4297

[520]

**m-NITROBENZOIC
ACID – CHLOROFORM**

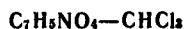


Mutual Solubility, Mol.%		<i>t</i>
A	B	
2.3	97.7	10
2.9	97.1	20
3.7	96.3	30
4.7	95.3	40
6.3	93.7	50
8.8	91.2	60
12.7	87.3	70
18.3	81.7	80
26.8	73.2	90
38.6	61.4	100
53.0	47.0	110
67.0	33.0	120
81.8	18.2	130
100.0	0.0	142.4

№ 4298

[520]

**o-NITROBENZOIC
ACID – CHLOROFORM**



Mutual Solubility, Mol.%		<i>t</i>
A	B	
0.7	99.3	20
1.0	99.0	30
1.2	98.8	40
1.6	98.4	50
1.9	98.1	60
2.7	97.3	70
4.4	95.6	80
7.7	92.3	90
14.8	85.2	100
31.0	69.0	110
49.6	50.4	120
69.3	30.7	130
88.1	11.9	140
100.0	0.0	144

№ 4299 [599, 1930]
2, 4, 6 - TRINITROTOLUENE -
CHLOROFORM
 $C_7H_5N_3O_6 - CHCl_3$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
5:66	94.34	0
7.83	92.17	5
9.91	90.09	10
13.04	86.96	15
15.97	84.03	20
20.00	80.00	25
24.53	75.47	30
31.00	69.00	35
39.76	60.24	40
50.25	49.75	45
60.00	40.00	50
68.55	31.45	55
75.12	24.88	60
81.57	18.43	65

№ 4300 [599, 1930]
TETRYL - CHLOROFORM
 $C_7H_5N_5O_8 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.279	0
0.329	5
0.388	10
0.468	15
0.567	20
0.675	25
0.784	30
0.961	35
1.186	40
1.449	45
1.749	50
2.181	55
2.581	60

№ 4301 [367]
BENZOIC ACID -
CHLOROFORM
 $C_7H_6O_2 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
12.50	25

№ 4302 [1913]
BENZOIC ACID - CHLOROFORM
 (saturated with water)
 $C_7H_6O_2 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
13.5	25

№ 4303 [1913]
o - HYDROXYBENZOIC ACID -
CHLOROFORM (saturated with water)
 $C_7H_6O_3 - CHCl_3$

Solubility A, Wt. %	<i>t</i>
1.84	25

№ 4304

m - AMINO BENZOIC ACID - CHLOROFORM
C₇H₇NO₂ - CHCl₃

[1189]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.05	99.95	25	2.8	97.2	100
0.3	99.7	30	3.1	96.9	110
0.7	99.3	40	3.4	96.6	120
1.1	98.9	50	4.8	95.2	130
1.5	98.5	60	9.5	90.5	140
1.9	98.1	70	23.3	76.7	150
2.2	97.8	80	68.9	31.1	160
2.5	97.5	90	88.0	12.0	170

№ 4305

o - AMINO BENZOIC ACID - CHLOROFORM
C₇H₇NO₂ - CHCl₃

[1189]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
1.57	98.43	25	19.5	80.5	90
2.0	98.0	30	28.5	71.5	100
3.0	97.0	40	41.8	58.2	110
4.4	95.6	50	57.9	42.1	120
6.4	93.6	60	72.0	28.0	130
9.0	91.0	70	90.1	9.9	140
13.0	87.0	80			

№ 4306

p - AMINO BENZOIC ACID - CHLOROFORM
C₇H₇NO₂ - CHCl₃

[1189]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.13	99.87	25	2.4	97.6	110
0.2	99.8	30	2.6	97.4	120
0.4	99.6	40	3.0	97.0	130
0.7	99.3	50	7.2	92.8	140
1.0	99.0	60	18.3	81.7	150
1.2	98.8	70	38.0	62.0	160
1.5	98.5	80	73.8	26.2	170
1.8	98.2	90	92.3	7.7	180
2.1	97.9	100			

№ 4307

[1515]

DIMETHYLPYRONE – CHLOROFORM
 $C_7H_5O_2-CHCl_3$

Solubility A, Wt.%	<i>t</i>
25.58	20

№ 4308

2, 6 - DIMETHYLPYRIDINE – CHLOROFORM
 $C_7H_9N-CHCl_3$

[2049]

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.0	100.0	-62.1	37.2	62.8	-56.7	63.8	36.2	-40.0
4.4	95.6	-63.0	40.2	59.8	-53.8	69.5	30.5	-30.0
6.4	93.6	-63.2	42.8	57.2	-51.5	71.8	28.2	-27.3
8.6	91.4	-65.0	45.7	54.3	-49.1	74.0	26.0	-24.5
12.7	87.3	-67.2	47.9	52.1	-49.0	76.6	23.4	-21.5
17.0	83.0	-71.0	50.1	49.9	-48.3	78.9	21.1	-20.0
21.5	78.5	-74.0	51.3	48.7	-48.3	81.6	18.4	-17.9
23.5	76.5	-76.3	54.1	45.9	-49.5	83.7	16.3	-15.1
24.1	75.9	-77.0	55.7	44.3	-50.5	86.6	13.4	-13.8
25.5	74.5	-74.5	56.2	43.8	-51.5	88.9	11.1	-11.9
27.1	72.9	-72.0	57.6	42.4	-51.0	91.9	8.1	-10.9
31.8	68.2	-64.3	58.8	41.2	-49.0	94.25	5.75	-8.9
33.1	66.9	-62.9	59.6	40.4	-48.0	100.0	0.0	-5.5
36.7	63.3	-57.3	61.6	38.4	-44.5			

№ 4309

[1515]

3, 4 - METHYLENEDIOXYBENZALDEHYDE – CHLOROFORM
 $C_8H_6O_3-CHCl_3$

Solubility A, Wt.%	<i>t</i>
66.7	20

№ 4310

[947]

**d - MANDELIC ACID –
 CHLOROFORM**
 $C_8H_8O_3-CHCl_3$

Solubility A, Wt.%	<i>t</i>
0.943	15
1.31	25
1.91	35

№ 4311

[947]

**d1 - MANDELIC ACID –
 CHLOROFORM**
 $C_8H_8O_3-CHCl_3$

Solubility A, Wt.%	<i>t</i>
0.869	15
1.05	25
1.57	35

№ 4312

ACETANILIDE – CHLOROFORM
 $C_8H_9NO-CHCl_3$

[1862]

Mutual Solubility, Wt.%		<i>t</i>	<i>t</i> ₄	Mutual Solubility, Wt.%		<i>t</i>	<i>d</i> ₄
A	B			A	B		
3.75	96.25	0	1.503	22.48	77.52	40	1.354
6.98	93.02	10	1.475	30.07	69.93	50	1.314
11.50	88.50	20	1.440	39.39	60.61	60	1.272
16.67	83.33	30	1.398				

№ 4313

[1473]

COUMARIN – CHLOROFORM
 $C_9H_6O_2-CHCl_3$

Solubility A, Wt.%	<i>t</i>
33.0	25

№ 4314

[1806]

**PHTHALONIC ACID –
CHLOROFORM**
 $C_8H_4O_4-CHCl_3$

Solubility A, Wt.%	<i>t</i>
1.96	15

№ 4315

[327]

**3 - PHENYLBROMOHYDROXYPROPANOIC
ACIDS – CHLOROFORM**
 $C_8H_7O_3Br-CHCl_3$

A	m.p	Solubility A, Wt.%
Rac. 3-Phenyl-3-bromo-2-hydroxypropanoic Acid	165	0.30
d-3-Phenyl-3-bromo-2-hydroxypropanoic Acid	143	1.0
l-3- " " " " " " " "	143	1.0
Rac. 3-Phenyl-3-bromo-2-hydroxypropanoic Acid	157	0.20
d-3-Phenyl-3-bromo-2-hydroxypropanoic Acid	138	2.53
l- " " " " " " " "	138	2.53
Rac. 3-Phenyl-2-bromo-3-hydroxypropanoic Acid	119	0.37
d-3-Phenyl-2-bromo-3-hydroxypropanoic Acid	69	0.51
l- " " " " " " " "	97	1.74

№ 4316

o - ACETOTOLUIDE – CHLOROFORM
 $C_9H_{11}NO-CHCl_3$

[854]

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B		A	B	
22.1	77.9	25	38.5	61.5	55	63.5	36.5	85
24.2	75.8	30	42.0	58.0	60	69.4	30.6	90
26.5	73.5	35	45.5	54.5	65	75.7	24.3	95
29.1	70.9	40	49.5	50.5	70	82.0	18.0	100
32.1	67.9	45	53.7	46.3	75	90.9	9.1	105
35.2	64.8	50	58.5	41.5	80	100.0	0.0	110.3

№ 4317

p - ACETOTOLUIDE - CHLOROFORM
C₉H₁₁NO-CHCl₃

[1553]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
10.41	89.59	55.2	55.19	44.81	117.4
18.44	81.56	70.9	70.75	29.25	131.9
30.78	69.22	89.5	77.76	22.24	136.7
37.44	62.56	96.9	100.0	0.00	148.5
41.78	58.22	104.4			

№ 4318

[935]

2 - NONANONE - CHLOROFORM
C₉H₁₈O-CHCl₃

Mutual Solubility, Wt. %		<i>t</i>
A	B	
46.5	53.5	-40
54.8	45.2	-30
69.6	30.4	-20
92.2	7.8	-10

№ 4319

NAPHTHALENE - CHLOROFORM
C₁₀H₈-CHCl₃

[1862]

Mutual Solubility, Wt. %		<i>t</i>	<i>d</i> ₄ ^{<i>t</i>}	Mutual Solubility, Wt. %		<i>t</i>	<i>d</i> ₄ ^{<i>t</i>}
A	B			A	B		
20.71	79.29	0	1.393	44.44	55.56	35	
24.24	75.76	10	1.355	48.45	51.55	40	1.205
31.03	68.97	20	1.300	52.83	47.17	45	—
35.06	64.94	25	1.280	58.90	43.10	50	1.150
39.76	60.24	30	1.255	61.63	38.37	55	—

№ 4320

[653]

p - ACETOXYACETANILIDE -
CHLOROFORM
C₁₀H₁₁NO₃-CHCl₃

Solubility A, g/l	<i>t</i>
32.5	25

№ 4321

[1978]

HOMATROPINE HYDROBROMIDE -
CHLOROFORM
C₁₀H₂₁NO₃ · HBr-CHCl₃

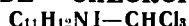
Mutual Solubility Wt. %	<i>t</i>
0.16	25

№ 4322 [1978]

**HYDRASTININE HYDRO-
CHLORIDE – CHLOROFORM**

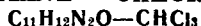
Solubility A, Wt.%	<i>t</i>
0.35	25

№ 4323 [1520]

**N - ETHYLQUINOLINIUM
IODIDE – CHLOROFORM**

Solubility A, Wt.%	<i>t</i>
1.75	25

№ 4324 [1978]

ANTIPYRINE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
50.0	25

№ 4325 [496]

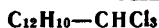
CARBAZOLE – CHLOROFORM

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.6	99.4	30
1.07	98.93	50

№ 4326

ACENAPHTHENE – CHLOROFORM

[1862]

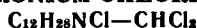


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
12.7	87.3	0	32.0	68.0	40
16.0	84.0	10	40.0	60.0	50
19.5	91.5	20	50.0	50.0	60
25.0	75.0	30			

№ 4327

DODECYLAMMONIUM CHLORIDE – CHLOROFORM

[933]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
0.82	99.18	15.0	38.39	61.61	52.3	48.60	51.40	57.5
2.02	97.98	22.0	43.32	56.68	54.8	48.79	51.21	58.2
4.05	95.95	28.0	43.48	56.52	55.1	49.18	50.82	59.4
6.95	93.05	31.6	45.73	54.27	56.0	50.11	49.89	62.1
12.18	87.82	36.4	46.21	53.79	56.4	50.73	49.27	63.9
18.2	81.80	40.2	47.14	52.86	56.8	53.42	46.58	68.8
25.72	74.28	45.2	47.70	52.30	57.1	53.95	46.05	73.5
30.18	69.82	48.2	48.22	51.78	57.3	59.92	40.08	90.5
34.19	65.81	50.1	48.58	51.42	57.5	66.58	33.42	110.0

№ 4328 [545]

2-BROMO-7-NITRO-9-FLUORENONE - CHLOROFORM
 $C_{13}H_9NO_2Br-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.435	18

№ 4330 [545]

2-CHLORO-7-AMINO-9-FLUORENONE - CHLOROFORM
 $C_{13}H_8NOCl-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.40	18

№ 4332 [545]

2-CHLORO-7-NITROFLUORENE - CHLOROFORM
 $C_{13}H_9NO_2Cl-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.43	18

№ 4334 [545]

2-CHLORO-7-NITRO-9-FLUORENONE - CHLOROFORM
 $C_{13}H_9NO_2Cl-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.26	18

№ 4336 [545]

2-BROMO-7-AMINOFLUORENE - CHLOROFORM
 $C_{13}H_{10}NBr-CHCl_3$

Solubility A, Wt. %	<i>t</i>
3.84	18

№ 4329 [1515]

XANTHONE - CHLOROFORM
 $C_{13}H_8O_2-CHCl_3$

Solubility A, Wt. %	<i>t</i>
10.10	20

№ 4331 [545]

2-BROMO-7-NITRO-9-FLUORENONE OXIME - CHLOROFORM
 $C_{13}H_7N_2O_2Br-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.20	18

№ 4333 [545]

2-BROMO-7-NITROFLUORENE - CHLOROFORM
 $C_{13}H_8NO_2Br-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.36	18

№ 4335 [545]

2-CHLORO-7-AMINOFLUORENE - CHLOROFORM
 $C_{13}H_{10}NCl-CHCl_3$

Solubility A, Wt. %	<i>t</i>
4.76	18

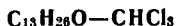
№ 4337 [545]

2-BROMO-7-AMINO-9-FLUORENONE - CHLOROFORM
 $C_{13}H_8NOBr-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.13	18

№ 4338

[935]

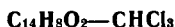
2 - TRIDECANONE - CHLOROFORM

Mutual Solubility, wt. %		<i>t</i>
A	B	
29.1	70.9	-20
36.9	63.1	-10
47.4	52.6	0
61.8	38.2	10
81.7	18.3	20

№ 4339

ANTHRAQUINONE - CHLOROFORM

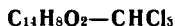
[1973]



Solubility A, Wt. %	<i>t</i>	d_4^t	Solubility A, Wt. %	<i>t</i>	d_4^t
0.339	0	1.5244	0.984	40	1.4461
0.455	10	1.5046	1.240	50	1.4261
0.601	20	1.4850	1.395	55	1.4164
0.774	30	1.4656	1.552	60	1.4070

№ 4340

[1515]

ANTHRAQUINONE - CHLOROFORM

Solubility A, Wt. %	<i>t</i>
0.54	20

№ 4341

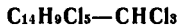
1, 2-[1515]

DIHYDROXYANTHRAQUINONE - CHLOROFORM

Solubility A, Wt. %	<i>t</i>
0.12	20

№ 4342

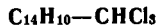
[840]

DICHLORODIPHENYLTRICHLOROETHANE (D.D.T.) - CHLOROFORM

Mutual Solubility, Wt. %		<i>t</i>
A	B	
18.2	81.8	0.0
21.9	78.1	7.2
31.0	69.0	24.0
47.4	52.6	45.0

№ 4343

[496]

ANTHRACENE - CHLOROFORM

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.82	99.18	15.5
1.61	98.39	30
6.63	93.37	50

№ 4344 [496]
PHENANTHRENE – CHLOROFORM
 $C_{14}H_{10}-CHCl_3$

Mutual Solubility, Wt.-%		<i>t</i>
A	B	
15.75	84.25	15.5
22.60	77.40	30

№ 4345 [887]
PHENANTHRENE – CHLOROFORM
 $C_{14}H_{10}-CHCl_3$

Mutual Solubility Wt.-%		<i>t</i>	Mutual Solubility Wt.-%		<i>t</i>
A	B		A	B	
17.49	82.51	-10	28.52	71.48	15
18.50	81.50	-5	31.79	68.21	20
20.32	79.68	0	35.32	64.68	25
22.84	77.16	5	39.10	60.90	30
25.54	74.46	10			

№ 4346 [1515]
DESOXYBENZOIN –
CHLOROFORM
 $C_{14}H_{12}O-CHCl_3$

Solubility A, Wt.-%	<i>t</i>
22.46	20

№ 4347 [1515]
BENZOIN – CHLOROFORM
 $C_{14}H_{12}O_2-CHCl_3$

Solubility A, Wt.-%	<i>t</i>
3.85	20

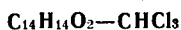
№ 4348 [1515]
BENZYL SULFIDE –
CHLOROFORM
 $C_{14}H_{14}S-CHCl_3$

Solubility A, Wt.-%	<i>t</i>
57.24	20

№ 4349 [1772]
BENZYL SULFIDE –
CHLOROFORM
 $C_{14}H_{14}S-CHCl_3$

Solubility A, Wt.-%	<i>t</i>
57.0	20

№ 4350 [1515]

**HYDROBENZOIN –
CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
1.58	20

№ 4351 [1520]

**DIBENZYLAMMONIUM
CHLORIDE – CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
0.37	25

№ 4352 [1515]

**DITOLYLTHIOUREA –
CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
8.71	20

№ 4353 [263]

**THIOPHOSPHORYL TRIPI-
PERIDIDE – CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
49.87	25

№ 4354 **SALTS OF MORPHINE – CHLOROFORM** [1711]*t* = 25

A		Solubility A, g/l.
Name	Formula	
Diacetylmorphine	$C_{21}H_{23}NO_5$	666
Diacetylmorphine Hydrochloride	$C_{21}H_{24}NO_5Cl$	333
Ethylmorphine Hydrochloride	$C_{19}H_{24}NO_3Cl$	5.26

№ 4355 [1418]

COCAINE – CHLOROFORM

Solubility A, Wt. %	<i>t</i>
50	20

№ 4356 [1978]

**COCAINE HYDROCHLORIDE –
CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
5.1	25

№ 4357 [263]

**PHOSPHORYL TRIANILIDE –
CHLOROFORM**
 $C_{18}H_{18}N_3OP-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.275	25

№ 4358 [1711]

CODEINE – CHLOROFORM
 $C_{18}H_{21}NO_3-CHCl_3$

Solubility A, Wt. %	<i>t</i>
57.1	25

№ 4359 [1711]

**CODEINE PHOSPHATE –
CHLOROFORM**
 $C_{18}H_{21}NO_3 \cdot H_3PO_4-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.015	25

№ 4360 [1711]

**CODEINE SULFATE –
CHLOROFORM**
 $C_{18}H_{21}NO_3 \cdot H_2SO_4-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.007	25

№ 4361 [263]

**PHOSPHORYL TRIPHENYL-
HYDRAZIDE – CHLOROFORM**
 $C_{18}H_{21}N_6OP-CHCl_3$

Solubility A, Wt. %	<i>t</i>
0.064	25

№ 4362

2-UNDECYLBENZOTHAZOLE – CHLOROFORM
 $C_{18}H_{27}NS-CHCl_3$

[637]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.7	98.3	—40	50.0	50.0	0
6.6	93.4	—30	70.1	29.9	10
16.1	83.9	—20	Completely miscible		20
31.3	68.7	—10			

№ 4363

[1868]

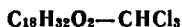
**β - EUCAINE LACTATE -
CHLOROFORM
 $C_{18}H_{27}NO_5 - CHCl_3$**

Solubility A, g/l.	<i>t</i>
200	15

№ 4364

[932]

**9, 12-OCTADECADIENOIC
ACID - CHLOROFORM**

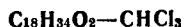


Mutual Solubility, Wt. %		<i>t</i>
A	B	
16.0	84.0	-50
28.6	71.4	-40
46.8	53.2	-30
67.7	32.3	-20
88.5	11.5	-10
Completely miscible		0

№ 4365

[932]

**9-OCTADECENOIC
ACID - CHLOROFORM**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
10.3	89.7	-40
18.9	81.1	-30
31.5	68.5	-20
47.9	52.1	-10
67.2	32.8	0
88.4	11.6	10
Completely miscible		20

№ 4366

[263]

**THIOPHOSPHORYL TRICYCLO-
HEXYLAMIDE - CHLOROFORM**



Solubility A, Wt. %	<i>t</i>
22.02	25

№ 4367

[263]

**PHOSPHORYL TRICYCLO-
HEXYLAMIDE - CHLOROFORM**

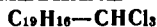


Solubility A, Wt. %	<i>t</i>
40.51	25

№ 4368

TRIPHENYLMETHANE - CHLOROFORM

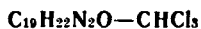
[866]



Mutual Solubility Wt. %			<i>t</i>	Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility Wt. %			<i>t</i>
A	B			A	B			A	B		
10.5	89.5	-50	35.0	65.0	10	71.7	28.3	60			
15.2	84.8	-30	41.5	58.5	20	79.8	20.2	70			
19.0	81.0	-20	48.8	51.2	30	87.2	12.8	80			
23.5	76.5	-10	56.1	43.9	40						
28.9	71.1	0	63.8	36.2	50						

№ 4369

[1099]

CINCHONINE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
0.562	50

№ 4370

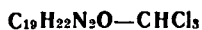
[1711]

CINCHONINE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
0.602	25

№ 4371

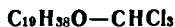
[1711]

CINCHONIDINE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
15.9	25

№ 4372

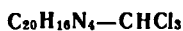
[935]

2-NONADECANONE – CHLOROFORM

Mutual Solubility, Wt.%		<i>t</i>
A	B	
13.2	86.8	0
22.3	77.7	10
33.9	66.1	20
48.5	51.5	30
67.9	32.1	40
89.1	10.9	50

№ 4373

[1515]

NITRON – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
0.03	20

№ 4374

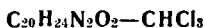
[1711]

QUININE – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
34.0	25

№ 4375

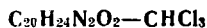
[1418]

QUINIDINE – CHLOROFORM

Solubility A, Wt. %	<i>t</i>
50.0	20

№ 4376

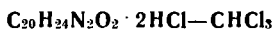
[1711]

QUINIDINE – CHLOROFORM

Solubility A, g/l.	<i>t</i>
250	25

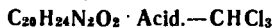
№ 4377

[1368]

**QUININE DIHYDROCHLORIDE –
CHLOROFORM**

Solubility A, g/l.	<i>t</i>
143	15

№ 4378

SALTS OF QUININE – CHLOROFORM [1978]*t* = 25

A		Solubility A, Wt. %
Name	Formula	
Quinine	$C_{20}H_{24}N_2O_2$	34.47
Quinine Hydrate	$C_{20}H_{24}N_2O_2 \cdot 3H_2O$	38.46
Quinine Hydrochloride	$C_{20}H_{24}N_2O_2Cl \cdot 2H_2O$	54.95
Quinine Salicylate	$C_{27}H_{30}N_2O_2 \cdot 1/2H_2O$	2.629
Quinine Sulfate	$C_{40}H_{50}N_4O_8S \cdot 7H_2O$	0.249
" "	$C_{20}H_{26}N_2O_6S \cdot 7H_2O$	0.109

№ 4379

[1530]

SALTS OF QUININE – CHLOROFORM*t* = 20

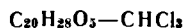
A	Solubility A, Wt. %
Quinine Racemic Lactate	22.24
Quinine Sulfate	0.0333

№ 4380 [2051]

AMYGDALIN – CHLOROFORM

Solubility A, Wt.%	<i>t</i>
0.029	15

№ 4381 [1868]

ELATERIN – CHLOROFORM

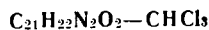
Solubility A, g/l.	<i>t</i>
40	15

№ 4382 [1520]

**TRIBENZYLAMMONIUM
CHLORIDE – CHLOROFORM**

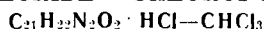
Solubility A, Wt.%	<i>t</i>
10.24	25

№ 4383 [1711]

STRYCHNINE – CHLOROFORM

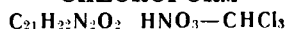
Solubility A, Wt.%	<i>t</i>
9.30	25

№ 4384 [1772]

**STRYCHNINE HYDRO-
CHLORIDE – CHLOROFORM**

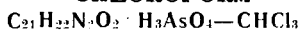
Solubility A, Wt.%	<i>t</i>
0.59	15

№ 4385 [1711]

**STRYCHNINE NITRATE –
CHLOROFORM**

Solubility A, g/l.	<i>t</i>
3.45	25

№ 4386 [1772]

**STRYCHNINE ARSENATE –
CHLOROFORM**

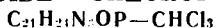
Solubility A, Wt.%	<i>t</i>
0.085	15

№ 4387 [263]

**PHOSPHORYL TRI-*o*-
TOLUIDE – CHLOROFORM**

Solubility A, Wt.%	<i>t</i>
1.84	25

№ 4388 [263]

**PHOSPHORYL TRI-*p*-
TOLUIDE – CHLOROFORM**

Solubility A, Wt.%	<i>t</i>
1.09	25

№ 4389 [263]

**PHOSPHORYL TRIBENZYLAMIDE –
CHLOROFORM**

Solubility A, Wt.%	<i>t</i>
36.10	25

№ 4390 [1711]

BRUCINE – CHLOROFORM

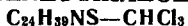
Solubility A, Wt. %	<i>t</i>
11.6	25

№ 4391 [263]

**PHOSPHORYL TRI-*p*-
PHENETIDIDE – CHLOROFORM**

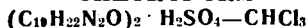
Solubility A, Wt. %	<i>t</i>
2.01	25

№ 4392 2-HEPTADECYLBENZOTHAZOLE – CHLOROFORM [837]



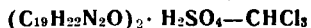
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
<1	>99	-30	35.9	64.1	20
1.9	98.1	-20	53.5	46.5	30
5.7	94.3	-10	73.7	26.3	40
12.2	87.8	0	Completely miscible		50
22.2	77.8	10			

№ 4393 [1711]

**CINCHONINE SULFATE –
CHLOROFORM**

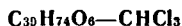
Solubility A, Wt. %	<i>t</i>
0.65	25

№ 4394 [1711]

**CINCHONIDINE SULFATE –
CHLOROFORM**

Solubility A, Wt. %	<i>t</i>
0.10	25

№ 4395 GLYCEROL TRIDODECANOATE – CHLOROFORM [1240]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
15	85	-10	30.7	69.3	5	59.0	41.0	25
20	80	-5	36.7	63.3	10	67.0	33.0	30
25	75	0	43.5	56.5	15	76.5	23.5	35
28.5	71.5	3	50.5	49.5	20	88.0	12.0	40

№ 4396 [1978]

**STRYCHNINE SULFATE –
CHLOROFORM**

Solubility A, g/l.	<i>t</i>
3.1	25

№ 4397 [1772]

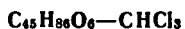
**STRYCHNINE SULFATE –
CHLOROFORM**

Solubility A, g/l.	<i>t</i>
0.5	15

№ 4398 [1711]

**STRYCHNINE SULFATE –
CHLOROFORM**

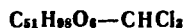
Solubility A, g/l	<i>t</i>
4.3	25

№ 4399 **GLYCEROL TRITETRADECANOATE – CHLOROFORM** [1240]

Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
10.0	0	34.0	20	67.0	40
15.0	5	41.5	25	76.0	45
21.0	10	49.0	30	86.5	50
27.5	15	58.0	35		

№ 4400

[1240]

GLYCEROL TRIHEXADECANOATE – CHLOROFORM

Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
4.5	95.5	5	34.0	66.0	30
8.5	91.5	10	41.5	58.5	35
14.0	86.0	15	50.0	50.0	40
20.0	80.0	20	68.0	32.0	50
27.0	73.0	25	88.0	12.0	60

№ 4401

GLYCEROL TRIOCTADECANOATE – CHLOROFORM

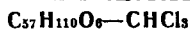
[1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.0	99.0	5	27.0	73.0	35
3.5	96.5	10	34.0	66.0	40
6.7	93.3	15	42.5	57.5	45
10.5	89.5	20	51.0	49.0	50
15.0	85.0	25	71.0	29.0	60
20.0	80.0	30	94.0	6.0	70

№ 4402

[934]

GLYCEROL TRIOCTADECANOATE – CHLOROFORM

Solubility A, Wt. %	<i>t</i>		
	α -form	β' -form	β -form
4.6	18.6	24.6	32.8
16.6	26.9	33.7	41.9
32.0	34.6	42.1	50.7
50.0	40.7	49.2	57.4
72.6	47.1	56.2	64.6
100.0	54.0	64.5	73.0

NOTE: Data taken from the article graph

№ 4403

[142]

**CELLULOSE ACETATE –
CHLOROFORM**

Solubility A, Wt. %		<i>t</i>
Lower layer	Upper layer	
0.09	6.55	0
0.65	6.16	20
1.10	5.55	40
1.67	—	51
Blend in all proportions		57

* Characteristics of A: 54.61% of AcOH, specific viscosity 0.62 (0.25% solution)
0.18% ash content

CHCl₃—*t*=32.2. *P*=74.1

Solvent		Solubility A, Wt.%
Name	Formula	
Diethylene Glycol Monoethyl Ether Acetate	C ₈ H ₁₆ O ₄	44.44
Tetraethylene Glycol	C ₁₀ H ₂₂ O ₅	47.23
Dimethyl Ether		
Diethylene Glycol	C ₈ H ₁₈ O ₃	46.67
Diethyl Ether		

№ 4405

[1192]

DICHLOROBROMOMETHANE –

FORMIC ACID

CHCl₂Br—CH₂O₂

Solubility A, Wt.%	<i>t</i>
76.0	61.3

№ 4406

[806]

TRIBROMOMETHANE –

FORMIC ACID

CHBr₃—CH₂O₂

Solubility A, Wt.%	<i>t</i>
20.2	25

№ 4407

[298]

TRIBROMOMETHANE – TOLUENE

CHBr₃—C₇H₈

Solubility A, Wt.%		<i>t</i>
A	B	
60.3	39.7	—48.5
69.8	30.2	—30.9
75.6	24.4	—22.2
86.6	13.4	—11.4
100.0	0.0	7.7

№ 4408

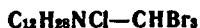
2, 6 - DIMETHYLPIRIDINE – TRIBROMOMETHANE

[2049]

C₇H₈N—CHBr₃

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.0	100.0	8.3	37.8	62.2	—24.2	70.7	29.3	—33.5
2.8	97.2	7.1	40.8	59.2	—23.8	72.3	27.7	—30.9
8.4	91.6	3.1	45.2	54.8	—21.8	73.8	26.2	—30.0
10.8	89.2	1.3	48.6	51.4	—21.5	76.3	23.7	—27.0
12.1	87.9	1.2	49.5	50.5	—21.0	78.9	21.1	—24.1
14.0	86.0	—0.8	50.1	49.9	—21.0	80.8	19.2	—21.5
15.0	85.0	—2.1	54.1	45.9	—21.0	83.2	16.8	—19.3
18.8	81.2	—5.0	56.3	43.7	—22.3	86.8	13.2	—15.9
20.2	79.8	—7.8	57.4	42.6	—22.8	88.7	11.3	—14.2
23.5	76.5	—10.2	61.2	38.8	—23.9	94.1	5.9	—10.1
25.9	74.1	—13.7	64.2	35.8	—26.0	97.9	2.1	—8.0
30.1	69.9	—17.2	65.9	34.1	—27.9	100.0	0.0	—5.5
32.9	67.1	—21.0	66.7	33.3	—29.0			
35.1	64.9	—24.3	68.1	31.9	—30.5			

№ 4409 DODECYLAMMONIUM CHLORIDE – TRIBROMOMETHANE [933]



Mutual Solubility, wt. %		<i>t</i>	Mutual Solubility, wt. %		<i>t</i>
A	B		A	B	
0.50	99.10	39.8	21.92	78.08	57.2
1.27	98.73	40.4	22.70	77.30	57.5
3.04	96.96	45.4	23.40	76.60	58.7
5.00	95.00	48.3	24.63	75.37	60.7
8.05	91.95	50.4	28.96	71.04	68.3
13.74	86.26	53.9	32.23	67.77	74.4
18.23	81.77	55.8	40.77	59.23	93.1
20.26	79.74	56.6	45.96	54.04	104.0
20.59	79.41	56.7	54.54	45.46	122.5

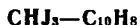
№ 4410 2, 6 - DIMETHYLPYRIDINE – TRIIODOMETHANE [2049]



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
0.0	100.0	121.0	80.3	19.7	-6.3
32.5	67.5	99.0	81.1	18.9	-8.0
44.5	55.5	91.0	81.5	18.5	-8.4
57.5	42.5	74.0	82.8	17.2	-17.5
62.4	37.6	66.0	83.4	16.6	-19.3
65.8	34.2	57.5	84.0	16.0	-18.9
66.3	33.7	57.5	85.4	14.6	-18.1
68.7	31.3	50.8	86.6	13.4	-17.0
71.5	28.5	41.0	89.7	10.3	-15.5
75.9	24.1	21.7	91.42	8.58	-11.9
77.3	22.7	1.3	92.55	7.45	-13.3
77.7	22.3	-0.5	98.22	1.78	-8.0
78.2	21.8	-1.0	100.0	0.0	-5.5
79.2	20.8	-4.5			

№ 4411 [17]

TRIODOMETHANE – NAPHTHALENE



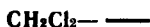
Mutual Solubility, wt. %		<i>t</i>
A	B	
43.53	56.47	70.8



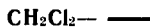
Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.0106	25
Ethanol	C ₂ H ₆ O	2.095	25
"	"	16.11	b.p.
Ethyl Ether	C ₄ H ₁₀ O	16.11	25
Pyridine	C ₅ H ₅ N	63.38	20–25
Lanolin	—	4.943	46
Glycerol	C ₃ H ₈ O ₃	0.122	15
50% water + 50% pyridine	H ₂ O + C ₅ H ₅ N	18.3	20–25

*t* = 32.2, *P* = *P* Monofluoromonochloromethane at 4.5°

Solvent		Solubility A, Wt. %
Name	Formula	
Diethylene Glycol Monethyl Ether Acetate	C ₈ H ₁₆ O ₄	34.98
Tetraethylene Glycol Dimethyl Ether	C ₁₀ H ₂₂ O ₆	36.31
Diethylene Glycol Diethyl Ether	C ₈ H ₁₈ O ₃	36.71

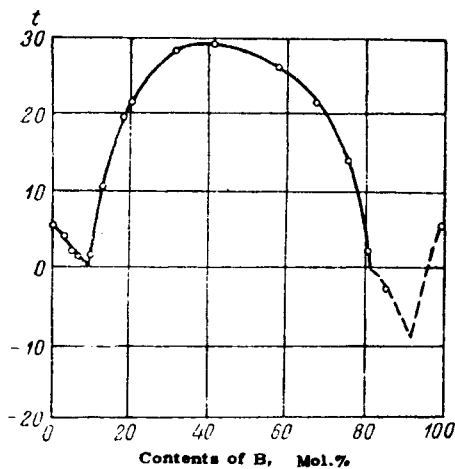
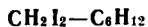
*t* = 32

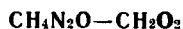
Solvent		Solubility A, g/cc B (at <i>p</i> = 181)
Name	Formula	
Ethylene Glycol Monethyl Ether Acetate	C ₆ H ₁₂ O ₃	0.493
Diethylene Glycol Monoethyl Ether Acetate	C ₈ H ₁₆ O ₄	0.450
Tetraethylene Glycol Diethyl Ether	C ₁₂ H ₂₆ O ₆	0.360

DICHLOROMETHANE – VARIOUS SOLVENTS

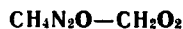
$t = 4.5$

Solvent		Solubility A, Mol. %
Name	Formula	
Phenol	$\text{C}_6\text{H}_6\text{O}$	13.0
Methoxybenzene	$\text{C}_7\text{H}_8\text{O}$	32.8
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	60.2
Acetic Acid	$\text{C}_2\text{H}_4\text{O}_2$	17.4
Propanoic Acid	$\text{C}_3\text{H}_6\text{O}_2$	21.8
1-Heptanal	$\text{C}_7\text{H}_{14}\text{O}$	38.8
Cyclohexanone	$\text{C}_6\text{H}_{10}\text{O}$	42.1
2, 4- Pentanedione	$\text{C}_6\text{H}_8\text{O}_2$	39.4
2, 5- Hexanedione	$\text{C}_6\text{H}_{10}\text{O}_2$	43.4
Cyclohexylamine	$\text{C}_6\text{H}_{13}\text{N}$	37.7
N, Methylacetamide	$\text{C}_3\text{H}_7\text{NO}$	26.9
N, N- Dimethylacetamide	$\text{C}_4\text{H}_9\text{NO}$	45.2
Pentanenitrile	$\text{C}_5\text{H}_9\text{N}$	35.1
2- Butanone Oxime	$\text{C}_4\text{H}_9\text{NO}$	24.4
Mesitylene	C_9H_{12}	31.7

DIODOMETHANE – CYCLOHEXANE

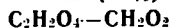


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0	100	7.4	22	78	-16.3	40	60	-1.0
3	97	4.6	25	75	-13.4	50	50	28.0
5	95	3.0	28	72	-12.2	60	40	60.8
8	92	-0.2	30	70	-11.6	70	30	84.1
12	88	-5.4	33	67	-11.5	80	20	105.6
15	85	-8.9	34	66	-12.8	90	10	122.5
18	82	-14.1	35	65	-15.5			
20	80	-20.2	37	63	-8.7			



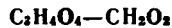
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B		A	B	
0	100	7.4	28	72	-12.2	44.5	55.5	-3.0
5	95	3.0	30	70	-11.6	45	55	-1.6
8	92	-0.2	33.3	66.7	-11.5	46	54	10.7
12	88	-5.4	34	66	-12.8	50	50	32.5
15	85	-8.9	35	65	-15.5	60	40	60.8
18	82	-14.1	38	62	-10.5	70	30	84.1
20	80	-20.2	40	60	-7.4	80	20	105.6
22	78	-16.3	42	58	-5.5	90	10	122.5
25	75	-13.4	44	56	-3.5	100	0	132.5

**OXALIC ACID - FORMIC
ACID (95%)**



Solubility A, Wt. %	<i>t</i>
8.87	16.8

**MALONIC ACID - FORMIC
ACID (95%)**

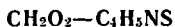


Solubility A, wt. %	<i>t</i>
18.31	19.5

№ 4421

FORMIC ACID - 2-PROPENYL THIOCYANATE

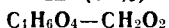
[1772]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.6	93.4	6.5	51.2	48.8	39.1
11.5	88.5	25	55.4	44.6	38.2
25.8	74.2	36	67.7	32.3	35.8
33.8	66.2	39	70.1	29.9	33.5
38.8	61.2	39.7	77.5	22.5	26
45.0	55.0	39.8*	84.0	16.0	10

№ 4422

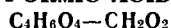
[256]

SUCCINIC ACID - FORMIC ACID (95%)

Solubility A, Wt. %	<i>t</i>
2.02	18.5

№ 4423

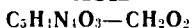
[256]

DIMETHYL OXALATE - FORMIC ACID (95%)

Solubility A, Wt. %	<i>t</i>
18.42	20.2

№ 4424

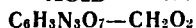
[256]

URIC ACID - FORMIC ACID (95%)

Solubility A, Wt. %	<i>t</i>
0.04	20

№ 4425

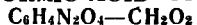
[256]

PICRIC ACID - FORMIC ACID (95%)

Solubility A, Wt. %	<i>t</i>
9.77	19.8

№ 4426

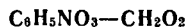
[256]

DINITROBENZENE - FORMIC ACID (95%)

Solubility A, Wt. %	<i>t</i>
10.63	20.8

№ 4427

[256]

NITROPHENOL - FORMIC ACID (95%)

Solubility A, Wt. %		<i>t</i>
ortho	para	
13.84	—	20.8
—	18.98	18.6

crit.pt. of Solubility

FORMIC ACID – BENZENE
 $\text{CH}_2\text{O}_2 - \text{C}_6\text{H}_6$

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
9.2	90.8	21	31.5	68.5	70	74	26	60
10.3	89.7	30	35	65	72	82	18	40
12.2	87.8	40	43–51	57–49	73.2	87	13	20
16.5	83.5	50	60	40	72	89.6	10.4	5
22	78	60	65	35	70			

**BENZENE – FORMIC
ACID**
 $\text{C}_6\text{H}_6 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
13.15	25

1, 4 - BENZENEDIOL –
FORMIC ACID (95%)
 $\text{C}_6\text{H}_4\text{O}_2 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
5.72	20.2

**1, 2, 3 - PROPENETRICARBOXYLIC
ACID – FORMIC ACID (95%)**
 $\text{C}_6\text{H}_5\text{O}_6 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
1.97	20.6

**CITRIC ACID – FORMIC
ACID (95%)**
 $\text{C}_6\text{H}_5\text{O}_7 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
10.91	20

**ADIPIC ACID – FORMIC
ACID (95%)**
 $\text{C}_6\text{H}_{10}\text{O}_4 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
3.88	18.5

**m - HYDROXYBENZOIC ACID –
FORMIC ACID (95%)**
 $\text{C}_7\text{H}_5\text{O}_3 - \text{CH}_2\text{O}_2$

Solubility A, Wt. %	<i>t</i>
2.31	20.8

№ 4435 [256]

**GALLIC ACID – FORMIC
ACID (95%)**
 $C_7H_6O_5-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.56	19.4

№ 4436 [256]

**PHTHALIC ANHYDRIDE –
FORMIC ACID (95%)**
 $C_8H_4O_3-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
4.46	19.8

№ 4437 [256]

**p - PHTHALIC ACID –
FORMIC ACID (95%)**
 $C_8H_6O_4-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.55	20.2

№ 4438 [256]

**TRINITRODIMETHYLBENZENE –
FORMIC ACID (95%)**
 $C_6H_7N_3O_6-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.70	18.5

№ 4439 [256]

**2 - METHYLBENZOIC ACID –
FORMIC ACID (95%)**
 $C_8H_8O_2-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
2.90	20.8

№ 4440 [256]

**MANDELIC ACID –
FORMIC ACID (95%)**
 $C_8H_8O_3-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
40.0	19

№ 4441 [256]

**OCTANEDIOIC ACID –
FORMIC ACID (95%)**
 $C_8H_{14}O_4-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
2.08	19.5

№ 4442 [256]

**CINNAMIC ACID –
FORMIC ACID (95%)**
 $C_9H_8O_2-CH_2O_2$

Solubility A, g/1	<i>t</i>
37.6	20

№ 4143 [256]

**NONANEDIOIC ACID —
FORMIC ACID (95%)**
 $C_9H_{16}O_4-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
3.65	19.4

№ 4444 [256]

**1-NITRONAPHTHALENE —
FORMIC ACID (95%)**
 $C_{10}H_7NO_2-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
3.33	18.5

№ 4445 [256]

**NAPHTHALENE —
FORMIC ACID (95%)**
 $C_{10}H_8-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.30	18.5

№ 4446 [256]

**2-NAPHTHOL —
FORMIC ACID (95%)**
 $C_{10}H_8O-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
3.01	18.6

№ 4447 [256]

**DECANEDIOIC ACID
FORMIC ACID (95%)**
 $C_{10}H_{18}O_4-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
1.03	19

№ 4448 [256]

**BORNYL CHLORIDE —
FORMIC ACID (95%)**
 $C_{10}H_{16} HCl-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
1.18	16.8

№ 4449

CAMPHOR — FORMIC ACID
 $C_{10}H_{16}O-CH_2O_2$

[203]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
0.0	100.0	7.2	40.0	60.0	-0.5	73.0	27.0	-24.5
9.4	90.6	5.4	45.0	55.0	-2.4	75.0	25.0	-27.5
15.0	85.0	4.9	50.0	50.0	-4.4	78.0	22.0	-19.9
20.0	80.0	4.1	55.0	45.0	-6.3	80.0	20.0	3.1
25.0	75.0	3.1	60.0	40.0	-10.1	82.0	18.0	23.7
30.0	70.0	2.1	65.0	35.0	-14.9	84.0	16.0	43.8
35.0	65.0	0.8	70.0	30.0	-20.1			

№ 4450 [256]
**1, 2-DIHYDROXYANTHRA-
 QUINONE - FORMIC ACID (95%)**
 $C_{14}H_8O_4-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.10	20.8

№ 4452 [256]
**BENZON -
 FORMIC ACID (95%)**
 $C_{14}H_{12}O_2-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
2.97	18.5

№ 4454 [256]
 **β -NAPHTHYL BENZOATE -
 FORMIC ACID (95%)**
 $C_{17}H_{12}O_2-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.25	18.6

№ 4451 [256]
**PHENANTHRENE -
 FORMIC ACID (95%)**
 $C_{14}H_{10}-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.46	20.8

№ 4453 [256]
**INDIGOTIN -
 FORMIC ACID (95%)**
 $C_{16}H_{10}O_2-CH_2O_2$

Solubility A, Wt. %	<i>t</i>
0.14	19.8

№ 4455 [806]
**COTTON SEED OIL -
 FORMIC ACID**
 — — CH_2O_2

Solubility A, Wt. %	<i>t</i>
0.77	25

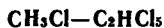
№ 4456 [806]
FORMIC ACID - VARIOUS SOLVENTS
 CH_2O_2- — —
t = 25

Solvent		Mutual Solubility, Wt. %	
Name	Formula	A	B
Benzene	C_6H_6	12.59	87.41
"	"	86.86	13.14
Tribromomethane	$CHBr_3$	2.39	97.61
"	"	79.81	20.19
Carbon Disulfide	CS_2	1.26	98.74
"	"	95.55	4.45
Carbon Tetrachloride	CCl_4	3.32	96.68
"	"	93.50	6.50
Cotton Seed Oil	"	7.99	92.01
" " "	—	99.24	0.76
Kerosene	—	0.89	99.11
"	—	98.47	1.53
Toluene	C_7H_8	9.94	90.06
"	"	91.68	8.32
Dimethylbenzene	C_8H_{10}	8.04	91.96
"	"	93.21	6.79

№ 4457

[1772]

**CHLOROMETHANE –
PENTACHLOROETHANE**

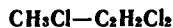


Solubility A cc/cc B	<i>t</i>
168.1	-5
125.2	0
98.7	5
79.0	10
65.1	15
54.1	20

№ 4458

[1772]

**CHLOROMETHANE –
DICHLOROETHYLENE**

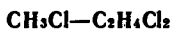


Solubility A cc/cc B	<i>t</i>
239.4	-5
174.8	0
130.7	5
101.2	10
76.9	15
58.6	20

№ 4459

CHLOROMETHANE – DICHLOROETHANE

[69]

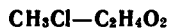


Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>	Solubility A cc/cc B	<i>t</i>	<i>p</i>
28	-10	100	10	0	100	8	20	100
58	-10	200	25	0	200	16	20	200
92	-10	300	42	0	300	24	20	300
130	-10	400	60	0	400	33	20	400
170	-10	500	82	0	500	42	20	500
228	-10	600	106	0	600	54	20	600
294	-10	700	134	0	700	67	20	700
336	-10	760	152	0	760	76	20	760

№ 4460

[116]

**CHLOROMETHANE –
ACETIC ACID**

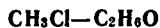


Solubility A cc/cc B	<i>t</i>
36.79	20

№ 4461

[116]

**CHLOROMETHANE –
ETHANOL**



Solubility A cc/cc B	<i>t</i>
34.70	20

№ 4462

[964]

**CHLOROMETHANE —
ACETONE**
CH₃Cl—C₂H₆O

t=25

Solubility A, Mol.%	<i>P</i>
0.00	229.2
1.82	292.1
5.22	412.7
8.91	540.6
12.55	674.2
16.37	808.8
21.95	1014.3

№ 4463

[964]

**CHLOROMETHANE —
METHYL ACETATE**
CH₃Cl—C₂H₆O₂

t=25

Solubility A, Mol.%	<i>P</i>
0.00	213.4
2.27	294.9
5.60	410.8
8.86	526.9
11.76	631.0
15.75	773.9
21.19	979.0

№ 4464

[964]

**CHLOROMETHANE —
CHLOROBENZENE**
CH₃Cl—C₆H₅Cl

t=25

Solubility A, Mol.%	<i>P</i>
0.00	11.6
3.37	151.7
7.19	311.7
11.80	503.5
15.72	669.9
21.21	908.6
24.79	1060.9

№ 4465

[964]

**CHLOROMETHANE —
BENZENE**
CH₃Cl—C₆H₆

t=25

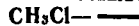
Solubility A, Mol.%	<i>P</i>
0.00	93.7
2.48	190.2
6.08	329.0
9.55	463.8
13.73	626.6
17.58	776.6
23.49	1012.7

№ 4466

[116]

**CHLOROMETHANE —
BENZENE**
CH₃Cl—C₆H₆

Solubility A cc/cc B	<i>t</i>
47.23	20



t = 32

Solvent		Solubility A, g/cc B (at p = 2205)
Name	Formula	
Ethylene Glycol Monomethyl Ether Acetate	C ₆ H ₁₂ O ₃	0.364
Diethylene Glycol Monomethyl Ether Acetate	C ₈ H ₁₆ O ₄	0.322
" " Diethyl Ether	C ₈ H ₁₈ O ₃	0.324
Tetraethylene Glycol Diethyl Ether	C ₁₂ H ₂₆ O ₅	0.302
" " Dimethyl Ether	C ₁₀ H ₂₂ O ₅	0.344
Diethylene Glycol Mono-n-butyl Ether Acetate	C ₁₀ H ₂₁ O ₄	0.294
Diethylene Glycol Diacetate	C ₈ H ₁₄ O ₅	0.248
4-Methyl-2-pentanol Acetate	C ₈ H ₁₆ O ₂	0.304
1-(3-Chloropropoxy)3-chloropropane	C ₆ H ₁₂ OCl ₂	0.282
2-(1-Chloroisopropoxy)1-chloropropane	"	0.294
1-Fluoronaphthalene	C ₁₀ H ₇ F	0.262
Trichlorobenzene	C ₆ H ₃ Cl ₃	0.194
1, 1, 2, 2-Tetrachloroethane	C ₂ H ₂ Cl ₄	0.35
Ethylene Glycol Mono-n-butyl ether Butanoate	C ₁₀ H ₂₁ O ₃	0.29
" " " " " Acetate	C ₈ H ₁₆ O ₃	0.32
" " " " " Dodecanoate	C ₁₈ H ₃₆ O ₃	0.206
" " n-Butyl Ether	C ₁₁ H ₂₂ O ₃	0.282
Tetrahydrofurfuryl Ether	"	"
Ethylene Glycol Monotetrahydrofurfuryl Ether Acetate	C ₈ H ₁₆ O ₄	0.304
Diethylene Glycol Monomethyl Ether Acetate	C ₇ H ₁₄ O ₄	0.308
" " Mono-n-butyl Ether Chloride	C ₈ H ₁₇ O ₂ Cl	0.28
Triethylene Glycol Monomethyl Ether Acetate	C ₉ H ₁₈ O ₅	0.30
Tetrahydrofurfuryl Dodecanoate	"	"
" " Acetate	C ₁₇ H ₃₂ O ₃	0.204
1, 3-Dichloro-2-propanol Acetate	C ₇ H ₁₂ O ₃	0.342
Ethyl Dodecanoate	C ₈ H ₈ O ₂ Cl ₂	0.266
2-Ethyl-1-hexanol Acetate	C ₁₄ H ₂₈ O ₂	0.212
Furfuryl Acetate	C ₁₀ H ₂₀ O ₂	0.272
Ethyl Furoate	C ₇ H ₈ O ₃	0.263
Furfural	"	0.302
1, 2, 3, 4-Tetrahydronaphthalene	C ₈ H ₄ O ₂	0.276
Decahydronaphthalene	C ₁₀ H ₁₂	0.228
Phenyltrifluoromethane	C ₁₀ H ₅ F ₃	0.142
4-Fluoro-1-methoxybenzene	C ₇ H ₅ F ₃	0.300
Ethylene Glycol Monobutyl Ether	C ₇ H ₇ OF	0.304
Diethylene Glycol Monobutyl Ether	C ₆ H ₁₄ O ₂	0.23
1-Dodecanol	C ₈ H ₁₈ O ₃	0.228
1, 3-Dichloro-2-propanol	C ₁₂ H ₂₆ O	0.116
1, 3-Dibromo-2-Propanol	C ₃ H ₆ OCl ₂	0.208
Ethylene Glycol Mono-n-butyl Ether Methoxyacetate	C ₈ H ₆ OBr ₂	0.162
1, 3-Dichloro-2-propanol Butanoate	C ₉ H ₁₈ O ₄	0.30
1, 3- " " " Adipate	C ₇ H ₁₂ O ₂ Cl ₂	0.258
1, 3-Dibromo-2-propanol Acetate	C ₁₂ H ₁₈ O ₄ Cl ₄	0.178
3, 3'-Bis(dichloropropyl)Carbonate	C ₈ H ₈ O ₂ Br ₂	0.27
3, 3'-Bis(dichloroethyl)Carbonate	C ₇ H ₁₂ O ₃ Cl ₂	0.244
	C ₅ H ₈ O ₃ Cl ₂	0.238

Solvent		Solubility A, g/cc B (at p = 2203)
Name	Formula	
Di-β-chloroethyl Phthalate	C ₁₂ H ₁₂ O ₄ Cl ₂	0.172
Di-n-butyl o-Dichlorophthalate	C ₁₈ H ₂₀ O ₄ Cl ₂	0.17
Di-n-butyl o-Phthalate	C ₁₈ H ₂₂ O ₄	0.194
β-Bromoethoxy-β'-bromoethane	C ₄ H ₈ OBr ₂	0.266
4-Chloro-1-ethoxybenzene	C ₈ H ₉ OCl	0.25
4-Bromo-1-ethoxybenzene	C ₈ H ₉ OBr	0.248
Phenoxybenzene	C ₁₂ H ₁₀ O	0.202
4,4'-Dibromophenoxybenzene	C ₁₂ H ₉ OBr	0.170
β-Bromoethoxybenzene	C ₈ H ₉ OBr	0.228
Pentachloroethane	C ₂ HCl ₅	0.316
Heptachloropropane (asymmetric)	C ₃ HCl ₇	0.212
1,2,3-Tribromopropane	C ₃ H ₂ Br ₃	0.19
1-Chloronaphthalene	C ₁₀ H ₇ Cl	0.192
1-Bromonaphthalene	C ₁₀ H ₇ Br	0.184
o-Dichlorobenzene	C ₆ H ₄ Cl ₂	0.256
2-Chlorobiphenyl	C ₁₂ H ₉ Cl	0.183
Tri-o-cresol Phosphate	C ₂₁ H ₂₁ O ₄ P	0.178
N-n-butylbenzenesulfonylanilide	C ₁₆ H ₁₉ O ₂ SN	0.188

№ 4468

FORMAMIDE - METHANOL
CH₂NO-CH₄O

[1057]

Mutual Solubility, wt. %		t	Mutual Solubility, wt. %		t
A	B		A	B	
0.0	100.0	-98.4	49.1	50.9	-44.2
12.9	87.1	-103.1	59.9	40.1	-34.6
25.6	74.4	-75.3	83.8	16.2	-12.7
31.7	68.3	-65.6	100.0	0.0	2.5
34.7	65.3	-61.5			

№ 4469

FORMAMIDE - NITROBENZENE
CH₂NO-C₆H₅NO₂

[1057]

Mutual Solubility, wt. %		t	Mutual Solubility, wt. %		t
A	B		A	B	
5.2	94.8	60	44.7	55.3	107.6
8.1	91.9	84	45.6	54.4	107.0
16.8	83.2	102.8	70.4	29.6	81
18.7	81.3	104.2	76.0	24.0	19.2
36.8	63.2	108.2*			
43.1	56.9	107.6			

* crit.pt. of Solubility

№ 4470 [1192]

**NITROMETHANE -
1 - BUTANOL**
CH₃NO₂-C₄H₁₀O

Mutual Solubility, Wt. %		<i>t</i>
A	B	
56.5	43.5	17.0

№ 4471 [1192]

**NITROMETHANE -
3 - METHYL - 1 - BUTANOL**
CH₃NO₂-C₅H₁₂O

Mutual Solubility, Wt. %		<i>t</i>
A	B	
87.5	12.5	13.5

№ 4472 [1192]

**NITROMETHANE -
2 - METHYL - 2 - BUTANOL**
CH₃NO₂-C₅H₁₂O

Mutual Solubility, Wt. %		<i>t</i>
A	B	
49.5	50.5	3

№ 4473 [932]

**9 - OCTADECENOIC ACID -
NITROMETHANE**
C₁₈H₃₄O₂-CH₃NO₂

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.1	99.9	-40
0.2	99.8	-30
0.4	99.6	-20
0.6	99.4	-10
0.8	99.2	0
1.0	99.0	10
1.1	98.9	20
Completely miscible		>94.5

№ 4474 [1215]

**METHANE -
METHANOL**
CH₄-CH₄O

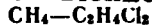
Solubility A (l),* cc/cc B	<i>t</i>
0.5644	0
0.5144	10
0.4564	20
0.3904	30
0.3164	40
0.2344	50
0.1444	60
0.0464	70

№ 4475 [1662]

**METHANE -
METHANOL**
CH₄-CH₄O

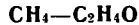
Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.4032	25	760

* $t = 0.5644 - 0.0046 t - 0.00004 P$.



$t = 0$

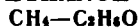
Solubility A cc ($t=0, p=760$)/cc B	P	Solubility A cc ($t=0, p=760$)/cc B	P
0.020	50	0.205	500
0.045	100	0.245	600
0.080	200	0.285	700
0.125	300	0.310	760
0.165	400		



Mutual Solubility, Mol. %		t	$P_{\text{abs.}}$ at	Mutual Solubility, Mol. %		t	$P_{\text{abs.}}$ at	Mutual Solubility, Mol. %		t	$P_{\text{abs.}}$ at
A	B			A	B			A	B		
2.2	97.8	1	10	4.6	95.4	20	20	5.9	94.1	40	30
4.9	95.1	1	20	6.7	93.3	20	30	7.7	92.3	40	40
7.0	93.0	1	30	8.6	91.4	20	40	9.4	90.6	40	50
9.1	90.1	1	40	10.6	89.4	20	50	11.2	88.8	40	60
11.1	88.9	1	50	12.3	87.7	20	60	12.7	87.3	40	70
13.0	87.0	1	60	14.1	85.9	20	70	14.1	85.9	40	80
14.7	85.3	1	70	15.6	84.4	20	80	15.5	84.5	40	90
16.2	83.8	1	80	17.2	82.8	20	90	16.2	83.8	40	100
18.2	81.8	1	90	19.0	81.0	20	100	18.2	81.8	40	110
95.35	4.65	1	10	93.5	6.5	20	20	92.50	7.50	40	40
96.70	3.30	1	20	94.6	5.4	20	30	93.78	6.22	40	50
97.50	2.50	1	30	95.58	4.42	20	40	94.78	5.22	40	60
97.92	2.08	1	40	96.25	3.75	20	50	94.82	5.18	40	70
98.16	1.84	1	50	96.60	3.40	20	60	94.95	5.05	40	80
98.30	1.70	1	60	96.83	3.17	20	70	94.98	5.02	40	90
98.38	1.62	1	70	96.87	3.13	20	80	95.00	5.00	40	100
98.41	1.59	1	80	96.90	3.10	20	90	95.03	4.97	40	110
98.44	1.56	1	90	2.0	98.0	40	10				
2.15	97.85	20	10	4.0	96.0	40	20				

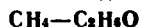
METHANE -

ETHANOL



Solubility A (t^*), cc ($t=0, p=760$)/cc B	t
0.51721	2
0.50382	6.4
0.49264	11
0.48255	15
0.4729	19
0.4629	23.5

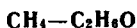
* $t = 0.522745 - 0.00295882t - 0.0000177t^2$.

*t*=25

Solubility A cc/cc B	<i>P</i> _{abs.} at	Solubility A cc/cc B	<i>P</i> _{abs.} at
4	10	28	70
8	20	32	80
12	30	37	90
16	40	41	100
20	50	46	110
24	60	50	120

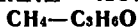
NOTE: Data taken from the article graph

METHANE - ETHANOL



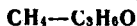
Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.4196	25	760

METHANE - ACETONE



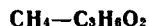
Solubility A (<i>t</i>),* cc/cc B	<i>t</i>	Solubility A (<i>t</i>),* cc/cc B	<i>t</i>
0.5906	0	0.2718	40
0.5247	10	0.1691	50
0.4496	20	0.0572	60
0.3653	30		

METHANE - ACETONE



Solubility A cc/cc B	<i>t</i>
0.8726	-76.7
0.7699	-60.6
0.6943	-41.6
0.6513	-21.8
0.6232	0
0.6165	20
0.6101	40

METHANE - METHYL ACETATE



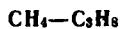
Solubility A cc/cc B	<i>t</i>
0.7571	-76.7
0.6926	-60.6
0.6454	-41.6
0.6203	-20.4
0.6068	0
0.6032	20
0.5987	40

* *t* = 0.5906 - 0.00613*t* - 0.000046*t*².

№ 4484

METHANE – PROPANE

[749]

 $t=25$

Solubility A cc/cc B	$P_{\text{abs.}}$ at	Solubility A cc/cc B	$P_{\text{abs.}}$ at
20	10	128	60
40	20	151	70
60	30	174	80
83	40	208	89.5
105	50		

NOTE: Data taken from the article graph

№ 4485

[1662]

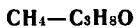
METHANE – 1-PROPANOL

Solubility A cc/cc B	t	P
0.4113	25	760

№ 4486

METHANE – 2-PROPANOL

[749]

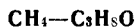
 $t=25$

Solubility A cc/cc B	$P_{\text{abs.}}$ at	Solubility A cc/cc B	$P_{\text{abs.}}$ at
4	10	31	60
9	20	37	70
14	30	43	80
19	40	49	90
25	50		

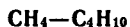
NOTE: Data taken from the article graph

№ 4487

[1662]

**METHANE –
2-PROPANOL**

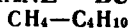
Solubility A cc/cc B	t	P
0.4193	25	760



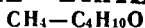
t=25

Solubility A cc/cc B	<i>P</i> _{abs.} at	Solubility A cc/cc B	<i>P</i> _{abs.} at
18	10	89	50
36	20	107	60
53	30	125	70
71	40		

NOTE: Data taken from the article graph



Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at
2.5	21.1	17.5	40.0	37.8	129.6	5.0	87.8	47.4
5.0	21.1	31.3	2.5	51.4	22.8	7.5	87.8	57.7
7.5	21.1	43.9	5.0	54.4	38.7	10.0	87.8	75.5
10.0	21.1	55.7	7.5	54.4	53.3	12.5	87.8	86.4
12.5	21.1	66.4	10.0	54.4	66.6	15.0	87.8	95.8
15.0	21.1	76.3	12.5	54.4	78.2	20.0	87.8	110.2
20.0	21.1	94.5	15.0	54.4	88.9	25.0	87.8	115.5
25.0	21.1	109.1	20.0	54.4	106.4	2.5	104.4	35.5
30.0	21.1	118.7	25.0	54.4	118.0	5.0	104.4	51.8
40.0	21.1	128.7	30.0	54.4	124.6	7.5	104.4	66.2
2.5	37.8	18.7	2.5	71.1	25.7	10.0	104.4	79.4
5.0	37.8	35.0	5.0	71.1	42.7	12.5	104.4	88.9
7.5	37.8	48.7	7.5	71.1	57.7	15.0	104.4	96.7
10.0	37.8	61.4	10.0	71.1	71.3	2.5	121.1	40.8
12.5	37.8	73.0	12.5	71.1	83.5	5.0	121.1	56.1
15.0	37.8	83.5	15.0	71.1	93.6	7.5	121.1	69.6
20.0	37.8	101.0	20.0	71.1	109.5	10.0	121.1	79.8
25.0	37.8	113.6	25.0	71.1	119.5	12.5	121.1	85.3
30.0	37.8	122.1	2.5	87.8	30.6			

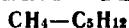


Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
2.220	-80.4	1.275	-20.4
2.119	-76.7	1.157	0
1.754	-61.6	1.078	-20
1.476	-41.6		

№ 4491

[749]

METHANE - PENTANE

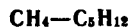
*t*=25

Solubility A cc/cc B	<i>P</i> abs. at
15	10
31	20
46	30
62	40
78	50
96	60
114	70
131	80
149	90
168	100

№ 4492

[1687]

METHANE - PENTANE

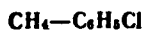


Solubility A, Wt. %	<i>t</i>	<i>P</i> abs. at
7.15	37.8	58.1
20.31	37.8	132.3
27.06	37.8	151.5
7.15	71.1	65.8
20.31	71.1	140.2
27.06	71.1	158.2
7.15	104.4	70.9
20.31	104.4	137.8
27.06	104.4	146.3

NOTE: Data taken from the article graph

№ 4493

[964]

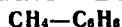
METHANE -
CHLOROBENZENE

Solubility A cc/cc B	<i>t</i>
0.5703	-40.8
0.5259	-20.4
0.4976	0
0.4808	20
0.4728	40
0.4748	99.6

№ 4494

METHANE - BENZENE

[749]

*t*=25

Solubility A cc/cc B	<i>P</i> abs. at	Solubility A cc/cc B	<i>P</i> abs. at
5	10	52	70
11	20	61	80
18	30	71	90
26	40	81	100
34	50	91	110
43	60		

NOTE: Data taken from the article graph

№ 4495

[964]

METHANE - BENZENE
CH₄-C₆H₆

Solubility A cc/cc B	<i>t</i>
0.5687	13.1
0.5680	20
0.5697	40
0.5787	60

№ 4496

[1687]

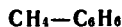
METHANE - BENZENE
CH₄-C₆H₆

Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
4.31	37.8	98.5
7.57	37.8	162.5
4.31	71.1	99.0
7.57	71.1	160.1
4.31	104.4	97.3
7.57	104.4	157.1

№ 4497

METHANE - BENZENE

[1730]

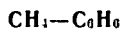
*t*=21.1

Solubility A, Wt. %	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>P</i> _{abs.} at
4.72	103.7	15.31	277.4
6.25	135.1	19.03	310.5
8.17	170.9	25.76	346.0
10.15	204.9	29.13	350.7
10.51	211.7	39.39	353.5
12.36	239.0		

№ 4498

[1662]

METHANE - BENZENE



Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.3645	50	760

№ 4499

[749]

METHANE - CYCLOHEXANE
CH₄-C₆H₁₂

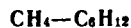
t=25

Solubility A cc/cc B	<i>P</i> _{abs.} at
6	10
14	20
23	30
34	40
45	50
57	60
69	70

№ 4500

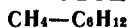
[1687]

METHANE - CYCLOHEXANE



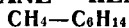
Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
10.01	37.8	139.1
13.44	37.8	174.6
10.01	71.1	149.0
13.44	71.1	183.4
10.01	104.4	152.3
13.44	104.4	185.9

NOTE: Data taken from the article graph



Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
2.50	37.9	40.9	40.47	37.9	259.7	40.87	71.1	265.5
4.99	37.9	76.0	2.48	71.1	41.1	2.51	104.4	46.4
7.54	37.9	110.2	5.00	71.1	83.5	5.03	104.4	86.4
10.59	37.9	146.1	6.27	71.1	103.4	7.55	104.4	122.5
13.78	37.9	178.2	9.03	71.1	138.0	10.68	104.4	159.8
16.65	37.9	202.1	11.98	71.1	171.1	16.01	104.4	205.5
18.57	37.9	216.0	15.03	71.1	199.6	20.73	104.4	231.5
21.32	37.9	231.2	20.02	71.1	234.8	27.12	104.4	247.2
24.74	37.9	247.2	24.97	71.1	253.7	32.62	104.4	249.9
30.18	37.9	254.8	29.94	71.1	264.6	39.69	104.4	249.4
35.34	37.9	258.7	35.00	71.1	267.0			

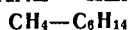
METHANE - HEXANE

*t*=25

Solubility A cc/cc B	<i>P</i> _{abs.} at
13	10
27	20
42	30
58	40
73	50
89	60
105	70
122	80
138	90

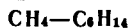
NOTE: Data taken from the article graph

METHANE - HEXANE



Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
4.24	37.8	44.5
12.33	37.8	110.4
19.20	37.8	164.0
4.24	71.1	50.2
12.33	71.1	120.7
19.20	71.1	171.9
4.24	104.4	54.1
12.33	104.4	126.1
19.20	104.4	170.5

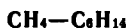
METHANE - HEXANE



Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
4.00	37.9	42.2	40.06	37.9	195.3	34.06	71.1	197.0
5.00	37.9	51.5	3.35	71.1	40.0	37.78	71.1	198.1
7.49	37.9	74.0	5.00	71.1	58.3	3.54	104.4	45.8
10.02	37.9	93.4	7.51	71.1	81.9	6.99	104.4	81.3
13.30	37.9	116.1	9.93	71.1	102.9	9.71	104.4	105.5
16.88	37.9	137.8	13.18	71.1	127.4	12.79	104.4	129.2
20.17	37.9	154.6	16.60	71.1	148.6	16.40	104.4	149.7
24.95	37.9	173.4	19.90	71.1	165.0	21.57	104.4	170.0
30.25	37.9	186.6	24.65	71.1	181.6	28.39	104.4	182.4
34.65	37.9	192.2	30.15	71.1	192.8	36.44	104.4	187.2

№ 4505

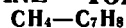
[1662]

METHANE – HEXANE

Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.6035	22	760

№ 4506

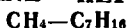
[1662]

METHANE – TOLUENE

Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.454	50	760

№ 4507

[1662]

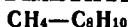
METHANE – HEPTANE

Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.7242	22	760

№ 4508

METHANE – DIMETHYLBENZENE

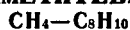
[75]



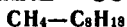
Solubility A cc (<i>t</i> =0, <i>p</i> =760) /cc B	<i>t</i>	<i>P</i>	Solubility A cc (<i>t</i> =0, <i>p</i> =760) /cc B	<i>t</i>	<i>P</i>	Solubility A cc (<i>t</i> = <i>C</i> , <i>p</i> =760) /cc B	<i>t</i>	<i>P</i>
0.050	-20	50	0.555	-10	600	0.220	20	300
0.100	-20	100	0.645	-10	700	0.295	20	400
0.195	-20	200	0.700	-10	760	0.370	20	500
0.290	-20	300	0.040	0	50	0.445	20	600
0.390	-20	400	0.085	0	100	0.520	20	700
0.485	-20	500	0.217	0	200	0.565	20	760
0.580	-20	600	0.260	0	300	0.030	40	50
0.680	-20	700	0.350	0	400	0.055	40	100
0.740	-20	760	0.435	0	500	0.110	40	200
0.045	-10	50	0.520	0	600	0.160	40	300
0.090	-10	100	0.610	0	700	0.220	40	400
0.185	-10	200	0.660	0	760	0.270	40	500
0.275	-10	300	0.035	20	50	0.320	40	600
0.370	-10	400	0.070	20	100	0.375	40	700
0.460	-10	500	0.150	20	200	0.410	40	760

№ 4509

[1662]

1, 3-DIMETHYLBENZENE

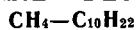
Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.497	50	760



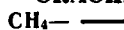
t=25

Solubility A cc/cc B	P _{abs.} at	Solubility A cc/cc B	P _{abs.} at
11	10	80	60
23	20	95	70
36	30	110	80
51	40	125	90
65	50	140	100

NOTE: Data taken from the article graph



Solubility A, Wt.%	t	P _{abs.} at	Solubility A, Wt.%	t	P _{abs.} at	Solubility A, Wt.%	t	P _{abs.} at
1.174	21.1	27.6	12.18	37.8	187.3	5.07	104.4	108.0
1.830	21.1	29.9	14.45	37.8	214.6	11.35	104.4	196.2
5.07	21.1	84.7	1.174	71.1	32.3	12.18	104.4	206.7
11.35	21.1	169.7	1.830	71.1	35.2	14.45	104.4	231.2
12.18	21.1	179.2	5.07	71.1	101.3	1.174	121.1	37.3
14.45	21.1	205.7	11.35	71.1	189.9	1.830	121.1	40.0
1.174	37.8	29.1	12.18	71.1	199.9	5.07	121.1	110.8
1.830	37.8	31.9	14.45	71.1	226.0	11.35	121.1	197.1
5.07	37.8	91.8	1.174	104.4	35.4	12.18	121.1	206.9
11.35	37.8	177.1	1.830	104.4	38.4	14.45	121.1	231.2



Solubility A cc (t=0, p=760) /cc B	t	P	Solubility A cc (t=0, p=760) /cc B	t	P	Solubility A cc (t=0, p=760) /cc B	t	P
0.065	-20	50	0.675	-10	600	0.250	20	300
0.130	-20	100	0.790	-10	700	0.340	20	400
0.255	-20	200	0.855	-10	760	0.425	20	500
0.385	-20	300	0.050	0	50	0.505	20	600
0.515	-20	400	0.100	0	100	0.590	20	700
0.640	-20	500	0.205	0	200	0.640	20	760
0.770	-20	600	0.305	0	300	0.020	40	50
0.895	-20	700	0.405	0	400	0.060	40	100
0.975	-20	760	0.510	0	500	0.125	40	200
0.060	-10	50	0.610	0	600	0.180	40	300
0.130	-10	100	0.710	0	700	0.250	40	400
0.260	-10	200	0.770	0	760	0.310	40	500
0.340	-10	300	0.040	20	50	0.370	40	600
0.450	-10	400	0.080	20	100	0.435	40	700
0.565	-10	500	0.170	20	200	0.470	40	760



Solubility A cc (t=0, p=760) /cc B	t	p	Solubility A cc (t=0, p=760) /cc B	t	p	Solubility A cc (t=0, p=760) /cc B	t	p
0.040	-20	50	0.498	-10	600	0.180	20	300
0.085	-20	100	0.562	-10	700	0.240	20	400
0.170	-20	200	0.610	-10	760	0.300	20	500
0.255	-20	300	0.035	0	50	0.365	20	600
0.340	-20	400	0.070	0	100	0.425	20	700
0.425	-20	500	0.145	0	200	0.460	20	760
0.515	-20	600	0.220	0	300	0.015	40	50
0.595	-20	700	0.300	0	400	0.040	40	100
0.650	-20	760	0.375	0	500	0.085	40	200
0.035	-10	50	0.455	0	600	0.130	40	300
0.080	-10	100	0.530	0	700	0.175	40	400
0.155	-10	200	0.575	0	760	0.220	40	500
0.240	-10	300	0.030	20	50	0.265	40	600
0.320	-10	400	0.060	20	100	0.310	40	700
0.400	-10	500	0.120	20	200	0.340	40	760

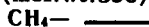


t=0

Solubility A cc (t=0, p=760)/cc B	p	Solubility A cc (t=0, p=760)/cc B	p
0.025	50	0.230	500
0.050	100	0.280	600
0.095	200	0.325	700
0.140	300	0.355	760
0.190	400	—	—

METHANE - PARAFFIN

(mol.wt.350)



t=72.2

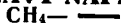
Solubility A,		p
cm ³ /g	Mol. %	
0.113	0.177	217.5
0.174	0.272	339.5
0.248	0.388	479.3
0.320	0.500	616.5
0.404	0.632	776.2

* Kerosine from BAKU oil field; d_4^{20} 0.834, b.p. 140 - 210° at p 737 mm.

** Heavy solvent; b.p. 150 - 250°, containing approximately equal quantities of olefin, aromatic and naphthenic hydrocarbons.

№ 4516 METHANE -HYDROCARBON BLENDS* [749]

(HEAVY NAPHTHA)



t=25

Solubility A cc/cc B	P _{abs.} at	Solubility A cc/cc B	P _{abs.} at
6	10	28	50
12	20	33	60
18	30	39	70
23	40	45	80

NOTE: Data taken from the article graph

№ 4517 METHANE - HYDROCARBON BLENDS [749]

(GAS OIL)**



t=25

Solubility A cc/cc B	P _{abs.} at	Solubility A cc/cc B	P _{abs.} at
4	10	34	80
8	20	39	90
12	30	44	100
16	40	49	110
20	50	54	120
24	60	59	130
29	70	64	140

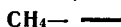
NOTE: Data taken from the article graph

№ 4518

METHANE - HYDROCARBON BLENDS***

[1681]

(CRYSTAL OIL, MOL.WT.337)



Solubility A, Wt.%	t	P _{abs.} at	Solubility A, Wt.%	t	P _{abs.} at	Solubility A, Wt.%	t	P _{abs.} at
0.36	21.1	13.6	2.78	37.8	102	5.40	54.4	187
0.83	21.1	27.2	3.32	37.8	119	0.33	71.1	13.6
1.10	21.1	40.8	3.92	37.8	136	0.73	71.1	27.2
1.48	21.1	54.4	4.54	37.8	153	0.98	71.1	40.8
1.88	21.1	68.0	5.22	37.8	170	1.31	71.1	54.4
2.40	21.1	85.0	0.34	54.4	13.6	1.66	71.1	68.0
2.93	21.1	102	0.75	54.4	27.2	2.09	71.1	85.0
3.50	21.1	119	1.02	54.4	40.8	2.54	71.1	102
4.14	21.1	136	1.36	54.4	54.4	3.01	71.1	119
4.86	21.1	153	1.72	54.4	68.0	3.51	71.1	136
0.35	37.8	13.6	2.17	54.4	85.0	4.03	71.1	153
0.79	37.8	27.2	2.65	54.4	102	4.59	71.1	170
1.06	37.8	40.8	3.15	54.4	119	5.20	71.1	187
1.42	37.8	54.4	3.69	54.4	136	5.80	71.1	204
1.79	37.8	68.0	4.26	54.4	153	0.31	87.8	13.6
2.27	37.8	85.0	4.88	54.4	170	0.70	87.8	27.2

* Hydrocarbon blend; d 0.8003 and vapor pressure 8 mm at 25^o.

** Hydrocarbon blend; d 0.8319 and vapor pressure 2 mm at 25^o.

*** Hydrocarbon blend known as crystalline or heavy hydrocarbon oil, colorless fluid; viscosity 284 millipoise at 37.8^o, specific gravity 0.8663 at 37.8^o and vapor pressure 0.005 mm at room temperature.

Solubility A, Wt.%	<i>t</i>	<i>P</i> abs. at	Solubility A, Wt.%	<i>t</i>	<i>P</i> abs. at	Solubility A, Wt.%	<i>t</i>	<i>P</i> abs. at
0.94	87.8	40.8	4.35	87.8	170	1.94	104.4	85.0
1.27	87.8	54.4	4.90	87.8	187	2.35	104.4	102
1.62	87.8	68.0	5.50	87.8	204	2.77	104.4	119
2.01	87.8	85.0	0.30	104.4	13.6	3.21	104.4	136
2.44	87.8	102	0.67	104.4	27.2	3.66	104.4	153
2.88	87.8	119	0.91	104.4	40.8	4.13	104.4	170
3.35	87.8	136	1.23	104.4	54.4	4.64	104.4	187
3.83	87.8	153	1.65	104.4	68.0	5.16	104.4	204

№ 4519

METHANE -- VARIOUS SOLVENTS

[1263]

CH₄—

Solvent		Solubility A cc/cc B	<i>t</i>
Name	Formula		
Methanol 99%	CH ₃ O	0.4436	22.1
" "	"	0.4278	30.2
" "	"	0.3938	40.0
" "	"	0.2695	49.8
Ethanol 99.8%	C ₂ H ₅ O	0.4628	22.2
" "	"	0.4503	30.1
" "	"	0.4323	40
2-Propanol	C ₃ H ₇ O	0.4620	21.5
" "	"	0.4532	29.9
" "	"	0.4400	40.0
" "	"	0.4244	60.3
1-Pentanol	C ₅ H ₁₂ O	0.4532	22
" "	"	0.4444	30.1
Benzene	C ₆ H ₆	0.4954	22.1
" "	"	0.4484	35.0
" "	"	0.4198	40.1
" "	"	0.3645	49.9
Toluene	C ₇ H ₈	0.4852	25
" "	"	0.4778	30
" "	"	0.4675	40.1
" "	"	0.4545	50.2
" "	"	0.4502	60.0
1,3-Dimethylbenzene	C ₈ H ₁₀	0.5146	21.1
" "	"	0.5028	30.5
" "	"	0.4972	50
" "	"	0.4870	60
Hexane	C ₆ H ₁₄	0.6035	22.2
" "	"	0.5320	40.2
" "	"	0.5180	49.7
" "	"	0.4964	60
Heptane	C ₇ H ₁₆	0.7242	22.2
" "	"	0.6906	30.1
" "	"	0.6675	40
Pinene	C ₁₀ H ₁₆	0.4888	20
" "	"	0.4620	30.1
" "	"	0.4472	39.1
" "	"	0.4440	45
" "	"	0.3694	55.2

№ 4520

[1797]

**THIOUREA –
METHANOL**
CH₄N₂S—CH₄O

Mutual Solubility Wt. %		<i>t</i>
A	B	
11.95	88.05	25.11
16.37	83.63	40.80
22.01	77.99	53.76
24.56	75.44	62.00

№ 4521

UREA – METHANOL
CH₄N₂O—CH₄O

[175]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
0.319	99.681	-78.0	3.503	96.497	-17.0	14.14	85.86	15.23
2.809	97.191	-24.9	3.781	96.219	-15.2	15.05	84.95	16.63
3.073	96.927	-21.3	4.653	95.347	-9.85	16.36	83.64	18.14
3.148	96.852	-20.2	7.158	92.842	0.25	16.85	83.15	18.79
3.368	96.632	-18.1	9.894	90.106	7.33			
3.624	96.376	-17.45	10.15	89.85	8.03			

№ 4522

UREA – METHANOL
CH₄N₂O—CH₄O

[1862]

Mutual Solubility Wt. %		<i>t</i>	d_4^t	Mutual Solubility Wt. %		<i>t</i>	d_4^t
A	B			A	B		
13.04	86.96	0	0.861	21.69	78.31	30	0.876
15.04	84.96	10	0.863	26.09	73.91	40	0.890
18.03	81.97	20	0.869	31.51	68.49	50	0.908
19.68	80.32	25	0.872	38.57	61.43	60	0.928

№ 4523

[414]

UREA – METHANOL
CH₄N₂O—CH₄O

Solubility A, Wt. %	<i>t</i>
17.9	19.5

№ 4524

[2020]

UREA – METHANOL
CH₄N₂O—CH₃O

Mutual Solubility Wt. %		<i>t</i>
A	B	
9.91	90.09	-12
12.43	87.57	0
17.29	82.71	19
26.69	73.31	40
39.98	60.02	62
51.78	48.22	71

№ 4525

[1327, 1328]

**UREA PHOSPHATE –
METHANOL**
CO(NH₂)₂ · H₂PO₄—CH₃O

Solubility A, Wt. %	<i>t</i>	<i>d</i> ₄ ^t
25.5	10	0.925
27.4	13	0.93
30.2	18	0.94
34.6	21.5	0.98
40.9	32	1.00
52.9	46	1.07

№ 4526

[175]

**OXALIC ACID –
METHANOL**
C₂H₂O₄—CH₃O

Mutual Solubility Wt. %		<i>t</i>
A	B	
34.2	65.8	-1.5
39.8	60.2	20.2

№ 4527

[1702]

**METHANOL –
ETHANOL**
CH₃O—C₂H₅O

Mutual Solubility Wt. %		<i>t</i>
A	B	
0:0	100.0	-114
10.2	89.8	-122.5
16.9	83.1	-129.6
71.4	28.6	-120.9
80.0	20.0	-111.8
91.7	8.3	-103.1
100.0	0.0	-97.8

№ 4528

[175]

**MALONIC ACID –
METHANOL**
C₃H₄O₄—CH₃O

Mutual Solubility Wt. %		<i>t</i>
A	B	
42.7	57.3	-18.5
43.5	56.5	-15
47.3	52.7	0
52.5	47.5	19
53.3	46.7	19.5

№ 4529

[1275]

**FORMYLGLYCINE —
METHANOL**
 $C_3H_5NO_2-CH_2O$

Solubility A, g/l.	<i>t</i>	d_4^{33}
73.1	25	0.8280

№ 4530

METHANOL — ACETONE
 $CH_2O-C_3H_6O$

[1702]

Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	-95.6	50.3	49.7	-115.7
13.3	86.7	-104.1	59.2	40.8	-111.7
27.5	72.5	-108.3	71.2	28.8	-108.7
27.7	72.3	-111.0	84.1	15.9	-103.0
36.1	63.9	-113.7			

№ 4531

METHANOL — PROPANOL
 $CH_2O-C_3H_7O$

[1269]

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.0	100.0	-80.05	60.6	39.4	-75.49
9.4	90.6	-96.15	70.6	29.4	-101.1
15.1	84.9	-112.20	79.3	20.7	-132.9
24.9	75.1	-91.17	85.9	14.1	-114.0
35.3	64.7	-74.84	98.2	1.8	-99.53
50.2	49.8	66.75	100.0	0.0	-98.02

№ 4532 TRINITROTRIMETHYLENETRIAMINE — [1976]

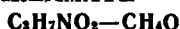
METHANOL
 $C_3H_6N_6O_6-CH_2O$

Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
0.140	0	0.480	40
0.180	10	0.735	50
0.235	20	1.060	60
0.325	30	1.250	64.5

№ 4533

ETHYL CARBAMATE — METHANOL

[1862]

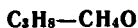


Mutual Solubility Wt. %		<i>t</i>	d_4^t	Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B			A	B		
55.75	44.25	0	0.956	83.33	16.67	25	1.013
65.52	34.48	10	0.977	89.47	10.53	30	1.024
70.59	29.41	15	0.989	95.74	4.26	40	1.045
76.74	23.26	20	1.000				

№ 4534

PROPANE — METHANOL

[1143]



Solubility A, Mol. %	<i>t</i>	<i>P</i>	Solubility A, Mol. %	<i>t</i>	<i>P</i>
0.000	0.0	30.4	0.7040	25.0	598.1
2.039	0.0	756.4	0.9569	25.0	759.6
0.0000	25.0	126.9	0.0000	50.0	416.1
0.4988	25.0	464.0	0.3232	50.0	758.4

№ 4535

[174]

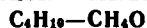
SUCCINIC ACID —
METHANOL

Solubility A, Wt. %	<i>t</i>
9.51	—1
16.24	21.5
22.30	39

№ 4536

[1143]

BUTANE — METHANOL



Solubility A, Mol. %	<i>t</i>	<i>P</i>
1.651	25.0	494.6
2.410	25.0	635.6
3.171	25.0	762.0
0.000	35.0	209.6
1.920	35.0	750.6
0.8075	50.0	756.8

№ 4537. 2-METHYLPROPANE [1143]

METHANOL
 $C_4H_{10}-CH_2O$

Solubility A, Mol. %	<i>t</i>	<i>P</i>
0.710	25.0	364.0
1.316	25.0	548.2
2.103	25.0	764.3
1.370	35.0	57.7
0.600	50.0	758.1

№ 4538

[1702]

**METHANOL —
ETHYL ETHER**
 $\text{CH}_3\text{O} - \text{C}_2\text{H}_5\text{O}$

Mutual Solubility, Wt. %		m.p
A	B	
0.0	100.0	-116.4
6.2	93.8	-118.0
10.1	89.9	-118.9
15.4	84.6	-119.0
31.1	68.9	-121.2
50.1	49.9	-117.4
62.8	37.2	-113.4
82.0	18.0	-106.3

№ 4539

[1977]

**1,2,3,4 - TETRAHYDROXY-PENTANE
TETRANITRATE — METHANOL**
 $\text{C}_5\text{H}_8\text{N}_4\text{O}_{12} - \text{CH}_3\text{O}$

Solubility A, Wt. %	t
0.190	0
0.234	10
0.453	20
0.705	30
1.147	40
1.807	50
2.534	60
3.134	65.1

№ 4540

[1275]

**FORMYL - β - AMINO-BUTANOIC
ACID**
 $\text{C}_5\text{H}_9\text{NO}_2 - \text{CH}_3\text{O}$

Solubility A, g/l.	t	d_{25}^{25}
84.6	25	0.8222

№ 4541

[1526]

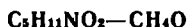
**d - GLUTAMIC ACID —
METHANOL**
 $\text{C}_5\text{H}_9\text{NO}_4 - \text{CH}_3\text{O}$

Solubility A, g/l	t
0.058	25

№ 4542

BETAINE — METHANOL

[1889]



Mutual Solubility, Wt. %		t	Mutual Solubility, wt. %		t
A	B		A	B	
27.54	72.46	-10	39.39	60.61	40
30.07	69.93	0	41.18	58.82	50
32.89	67.11	10	42.86	57.14	60
35.06	64.94	20	44.44	55.56	70
37.50	62.50	30			

№ 4543

[1772]

**HEXABROMOBENZENE —
METHANOL**
 $\text{C}_6\text{Br}_6 - \text{CH}_3\text{O}$

Solubility A, g/l.	t
0.76	20

№ 4544

[175]

**PICRIC ACID —
METHANOL**
 $\text{C}_6\text{H}_3\text{N}_3\text{O}_7 - \text{CH}_3\text{O}$

Solubility A, Wt. %	t
18.35	22

№ 4545

[409]

**1, 2, 4 - TRINITROBENZENE -
METHANOL**

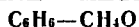


Solubility A, Wt. %	<i>t</i>
10.78	15.5

№ 4546

BENZENE - METHANOL

[1525]

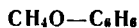


Solubility A, Mol. %		m.p	Solubility A, Mol. %		m.p	Solubility A, Mol. %		m.p
A	B		A	B		A	B	
0.00	100.0	-94.0	22.98	77.02	-7.6	63.08	36.92	2.10
4.93	95.07	-67.0	27.18	72.82	-4.9	75.00	25.00	2.40
7.07	92.93	-46.0	31.00	69.00	-3.2	84.22	15.78	3.00
9.86	90.14	-23.0	36.67	63.33	-1.35	92.16	7.84	3.25
13.67	86.33	-17.0	42.57	57.43	-0.1	100.0	0.00	5.40
16.45	83.55	-11.5	49.39	50.61	1.4			
19.39	80.61	-9.7	57.32	42.68	1.85			

№ 4547

METHANOL - BENZENE

[2070]

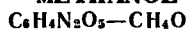


Mutual Solubility, Wt. %		<i>t</i>
A	B	
76.9	23.1	-6.8
69.9	30.1	-3.8
62.1	37.9	-1.6
57.2	42.8	-0.6
40.3	59.7	2.0
37.1	62.9	2.3

№ 4548

**DINITROPHENOL -
METHANOL**

[410]

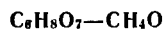


Solubility A, wt. %	<i>t</i>
5.93	19.5

№ 4549

**CITRIC ACID -
METHANOL**

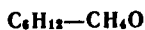
[175]



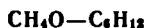
Solubility A, Wt. %	<i>t</i>
66.3	19

d - MANNONIC LACTONE – METHANOL

d-Mannonic - γ -lactone		d-Mannonic - δ -lactone	
Solubility Mol.%	<i>t</i>	Solubility Mol.%	<i>t</i>
0.806	40.0	0.234	35.8
1.071	47.9	0.339	45.3
1.308	53.4	0.505	54.9
1.765	60.9	0.773	63.4
2.312	67.4	0.948	66.9

**CYCLOHEXANE –
METHANOL**

<i>P</i> _{abs.} at	Critical temperature of Solubility
50	59.45
100	61.02
200	63.98
400	69.10
700	75.26
1000	81.0

METHANOL – CYCLOHEXANE

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
2.70	97.30	6.10	28.00	72.00	45.60*
4.50	95.50	30.60	29.20	70.80	45.58
6.60	93.40	32.30	30.14	69.86	45.56
8.53	91.47	37.50	30.85	69.15	45.52
13.07	86.93	42.80	33.82	66.18	45.45
18.75	81.25	45.10	40.51	59.49	44.62
19.36	80.64	45.32	46.40	53.60	42.68
20.74	79.26	45.45	51.04	48.96	40.05
22.40	77.60	45.53	60.60	39.40	30.40
27.19	72.81	45.58	66.77	33.23	17.10

* crit.pt. of Solubility

**METHANOL —
CYCLOHEXANE**
 $\text{CH}_3\text{O} - \text{C}_6\text{H}_{12}$

Solubility A, Wt. %	<i>t</i>
37.2	47.2

CYCLOHEXANE — METHANOL
 $\text{C}_6\text{H}_{12} - \text{CH}_3\text{O}$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
38.94	61.06	29.19	66.81	33.19	45.06	85.98	14.02	42.05
39.95	60.05	30.46	69.91	30.09	45.14	88.98	11.02	39.05
42.91	57.09	34.01	71.88	28.12	45.14	90.92	9.08	35.95
47.88	52.12	38.62	73.85	26.15	45.14	91.80	8.20	34.13
53.94	46.06	42.29	75.94	24.06	45.09	92.11	7.89	33.19
59.76	40.24	44.24	78.83	21.17	44.81	92.83	7.17	31.30
63.84	36.16	44.87	79.28	20.72	44.15			

METHANOL
 $\text{C}_6\text{H}_{12}\text{O}_5 \cdot \text{H}_2\text{O} - \text{CH}_3\text{O}$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
14.31	85.69	35.9
19.61	80.39	42.6
26.20	73.80	49.1
30.75	69.25	53.3
33.28	66.72	56.0
38.04	61.96	60.5

METHANOL
 $\text{C}_6\text{H}_{12}\text{O}_6 - \text{CH}_3\text{O}$
t = 17

A	Solubility A, g/l
d-Sorbose	17.0
l-Sorbose	16.8
l-Gulose	17.2

№ 4557

GLUCOSE – METHANOL

[777]

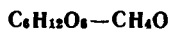


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B		A	B	
1.5	98.5	0.0	24.43	75.57	98.0	69.8	30.2	113.0
2.3	97.7	25.0	27.6	72.4	99.5	74.9	25.1	117.2
3.4	96.6	35.0	40.0	60.0	104.2	78.3	21.7	119.2
4.9	95.1	50.0	49.5	50.5	105.0	83.2	16.8	122.8
9.96	90.04	76.1	54.6	45.4	106.6	87.2	12.8	125.9
15.3	84.7	87.5	64.8	35.2	108.6	92.0	8.0	128.5

№ 4558

d-MANNOSE – METHANOL

[1975]

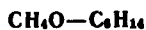


<i>α</i> -d-mannose			<i>β</i> -d-mannose		
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
2.13	97.87	44.8	1.81	98.19	41.5
2.24	97.76	46.1	2.14	97.86	45.0
2.76	97.24	50.2	2.74	97.26	51.3
3.27	96.73	53.9	3.16	96.84	55.0
4.05	95.95	58.9	3.80	96.20	59.1
4.82	95.18	62.6	4.73	95.27	64.2

№ 4559

METHANOL – HEXANE

[1670]

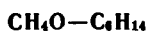


Mutual Solubility, Wt. %				<i>t</i>
Layer of A		Layer of B		
A	B	A	B	
73.5	26.5	3.2	96.8	10
68.4	31.6	4.1	95.9	20
61.7	38.3	6.3	93.7	30
56.4	43.6	8.8	91.2	33
47.3	52.7	14.5	85.5	40
31.1	68.9	31.1	68.9	42.6*

* crit.pt. of Solubility

№ 4560

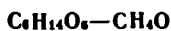
[76]

METHANOL – HEXANE

Composition of phases at equilibrium Wt.%				<i>t</i>
Layer of A		Layer of B		
A	B	A	B	
74.92	25.08	4.14	95.86	2
72.11	27.89	4.92	95.08	10

№ 4561

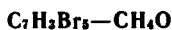
[1975]

d - MANNITOL – METHANOL

Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0766	47.0	0.210	69.7
0.0874	49.7	0.255	72.9
0.136	60.8	0.315	77.3
0.173	66.0	0.366	80.5

№ 4562

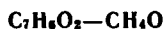
[1757]

**PENTABROMOTOLUENE –
METHANOL**

Solubility A, g/l.	<i>t</i>
0.108	20

№ 4563

[175]

**BENZOIC ACID –
METHANOL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
23.1	76.9	--18
24.3	75.7	--13
33.5	66.5	3
40.1	59.9	19.2
41.7	58.3	23

№ 4564

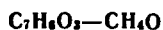
[1705]

**m - HYDROXYBENZOIC
ACID - METHANOL**

Solubility A, g/l.	<i>t</i>
535.8	15

№ 4565

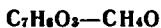
[1705]

**o - HYDROXYBENZOIC
ACID - METHANOL**

Solubility A, Wt. %	<i>t</i>
39.87	15

№ 4566

[1705]

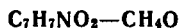
**p - HYDROXYBENZOIC
ACID - METHANOL**

Solubility A, Wt. %	<i>t</i>
36.22	15

№ 4567

m - AMINO BENZOIC ACID - METHANOL

[1189]



Mutual Solubility, Mol. %			<i>t</i>	Mutual Solubility, Mol. %			<i>t</i>	Mutual Solubility, Mol. %			<i>t</i>
A	B			A	B			A	B		
1.7	98.3	25	8.6	91.4	80	48.7	51.3	140			
2.2	97.8	30	10.8	89.2	90	61.0	39.0	150			
3.4	96.6	40	15.0	85.0	100	73.9	26.1	160			
4.6	95.4	50	20.3	79.7	110	88.0	12.0	170			
5.7	94.3	60	27.9	72.1	120						
7.0	93.0	70	37.5	62.5	130						

№ 4568

[1189]

o - AMINO BENZOIC ACID - METHANOL

Mutual Solubility, Mol. %			<i>t</i>	Mutual Solubility, Mol. %			<i>t</i>	Mutual Solubility, Mol. %			<i>t</i>
A	B			A	B			A	B		
7.62	92.38	25	22.1	77.9	70	66.7	33.3	120			
8.6	91.4	30	27.8	72.2	80	70.4	29.6	130			
10.8	89.2	40	35.0	65.0	90	92.2	7.8	140			
13.5	86.5	50	43.5	56.5	100						
17.2	82.8	60	53.9	46.1	110						

p - AMINO BENZOIC ACID - METHANOL



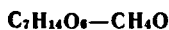
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B ¹⁴		A	B		A	B	
5.94	94.06	25	15.8	84.2	80	49.8	50.2	140
6.6	93.4	30	19.0	81.0	90	59.6	40.4	150
8.2	91.8	40	22.9	77.1	100	70.1	29.9	160
9.6	90.4	50	27.7	72.3	110	80.9	19.1	170
11.4	88.6	60	33.8	66.2	120	97.0	3.0	180
13.4	86.6	70	41.1	58.9	130			

№ 4570

α - METHYL - d - MANNOSIDE -

[1975]

METHANOL

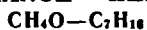


Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.456	40.2	0.867	58.4
0.520	43.7	1.000	62.4
0.648	49.8	1.082	64.6
0.760	54.9	1.190	66.8

№ 4571

METHANOL - HEPTANE

[76]



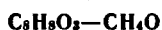
Composition of phases at equilibrium Wt.%				<i>t</i>
Layer of A		Layer of B		
A	B	A	B	
81.90	18.10	3.36	96.64	2
78.91	21.09	3.75	96.25	10
77.60	22.40	6.60	93.40	20
67.40	32.60	9.19	90.81	40

№ 4572

[175]

d1 - MANDELIC ACID -

METHANOL



Mutual Solubility, Wt.%		<i>t</i>
A	B	
51.1	48.9	0
64.9	35.1	16.5

№ 4573

[175]

p - METHOXYBENZOIC

ACID - METHANOL

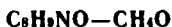


Mutual Solubility, Wt.%		<i>t</i>
A ¹⁵	B ¹⁶	
51.1	48.9	0
64.9	35.1	16.5

№ 4574

ACETANILIDE — METHANOL

[1862]



Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B		
19.35	80.65	0	0.860
23.08	76.92	10	0.864
29.58	70.42	20	0.875
38.27	61.73	30	0.892
47.37	52.63	40	0.911
57.80	42.20	50	0.932
68.25	31.75	60	0.957

№ 4575

[175]

OCTANEDIOIC ACID —
METHANOL

Solubility A, Wt. %	<i>t</i>
20.32	4

№ 4576

METHANOL — OCTANE

[76]



Composition of phases at equilibrium Wt. %				<i>t</i>
Layer of A		Layer of B		
A	B	A	B	
85.67	14.33	2.79	97.21	2
84.25	15.75	2.20	97.80	10
80.60	19.40	4.90	95.10	25
74.88	25.12	7.13	92.87	45

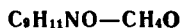
№ 4577

o-ACETOTOLUIDE — METHANOL

[854]



Mutual Solubility, Mol. %			Mutual Solubility, Mol. %			Mutual Solubility, Mol. %		
A	B	<i>t</i>	A	B	<i>t</i>	A	B	<i>t</i>
15.6	84.4	25	31.4	68.6	55	61.9	38.1	85
17.7	82.3	30	35.4	64.6	60	68.2	31.8	90
19.8	80.2	35	39.7	60.3	65	74.7	25.3	95
22.2	77.8	40	44.6	55.4	70	82.1	17.9	100
24.7	75.3	45	50.2	49.8	75	90.6	9.4	105
27.9	72.1	50	56.0	44.0	80	100.0	0.0	110.3



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
4.904	95.096	39.1	40.60	59.40	105.3
10.01	89.99	59.1	41.24	55.76	109.3
10.35	89.65	60.3	59.05	40.95	123.3
22.75	77.25	83.7	88.95	11.05	142.7
27.67	72.33	91.7	100.0	0.0	148.5

2 - NONANONE -
METHANOL



Mutual Solubility, Wt.%		<i>t</i>
A	B	
10.8	89.2	-40
19.4	80.6	-30
50.7	49.3	-20
94.3	5.2	-10

METHANOL - NONANE



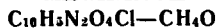
Composition of phases at equilibrium Wt.%				<i>t</i>
Layer of A		Layer of B		
A	B	A	B	
86.17	13.87	1.91	98.09	2
82.80	17.20	1.91	98.09	20
79.93	20.07	3.77	96.23	40
78.48	21.52	8.80	91.20	60

1 - CHLORO 2, 4, 5 - TRINITRO-
NAPHTHALENE - METHANOL



Solubility A, g/l.	<i>t</i>
5.25	25

1 - CHLORO - 2, 4 - DINITRO-
NAPHTHALENE -
METHANOL



Solubility A, g/l.	<i>t</i>
1.056	0
2.378	25

№ 4583 [183]
1, 5-DINITRONAPHTHALENE -
METHANOL
 $C_{10}H_6N_2O_4-CH_3O$

Solubility A, Wt. %	<i>t</i>
0.115	0
0.219	18
0.536	55

№ 4584 [183]
1, 8-DINITRONAPHTHALENE -
METHANOL
 $C_{10}H_6N_2O_4-CH_3O$

Solubility A, Wt. %	<i>t</i>
0.213	0
0.415	18
1.64	55

№ 4585 **NAPHTHALENE - METHANOL** [1862, 2024]
 $C_{10}H_8-CH_3O$

Mutual Solubility, Wt. %		<i>t</i>	d_4^t	Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B			A	B		
3.85	96.15	0	0.8194	37.89	62.11	60	0.837
5.30	94.70	10	0.812	54.54	45.46	65	0.870
7.83	92.17	20	0.807	67.21	32.79	67.5	0.902
9.09	90.91	25	0.805	82.14	17.86	70	—
10.71	89.29	30	0.804	86.30	13.70	71	—
15.25	84.75	40	0.805	90.00	10.00	72	—
23.37	76.63	50	0.813	92.31	7.69	73	—
29.33	70.67	55	0.820	94.44	5.56	74	—

№ 4586 **NAPHTHALENE - METHANOL** [1901]
 $C_{10}H_8-CH_3O$

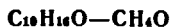
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
13.45	86.55	37.6	31.32	68.68	57.4
14.83	85.17	40.1	32.21	67.79	57.9
19.81	80.19	47.8	31.24	68.76	58.4
19.98	80.02	48.9	71.94	28.06	68.6

№ 4587 **N-PROPENYL-N'-PHENYLTHIOUREA - METHANOL** [205]
 $C_{10}H_{12}N_2S-CH_3O$

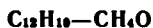
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.57	95.43	40.0	48.70	51.30	77.2
6.99	93.01	46.0	57.63	42.37	81.5
19.24	80.76	59.5	70.79	29.21	86.5
28.13	71.87	65.7	77.45	22.55	91.0
38.37	61.63	71.7	100.00	0.0	99.0

**N-PHENYLTARTRIMIDE AND RELATED COMPOUNDS -
METHANOL
— —CH₃O**

A		Solubility A, Wt. %	t
Name	Formula		
d-N-Phenyltartramide	C ₁₀ H ₉ NO ₄	2.84	18
d-N-Phenyltartraminc Acid	C ₁₀ H ₁₁ NO ₅	15.66	14
d-N-Monophenyltartramide	C ₁₀ H ₁₂ N ₂ O ₅	1.031	21.5
d-N, N - Diphenyltartramide	C ₁₆ H ₁₆ N ₂ O ₄	0.2151	20
N-p-Ethoxyphenyltartramide	C ₁₂ H ₁₃ NO ₅	1.504	14
N-p-Ethoxyphenyltartraminc Acid Methyl Ester	C ₁₃ H ₁₇ NO ₆	1.88	15
N-p-Ethoxyphenyltartraminc Acid Ethyl Ester	C ₁₄ H ₁₉ NO ₆	4.496	15
N-p-Hydroxyphenyltartramide	C ₁₀ H ₉ NO ₅	2.913	13
N-Mono-p-hydroxyphenyltartramide	C ₁₀ H ₁₂ N ₂ O ₅	1.58	15
N-p-Hydroxyphenyl-N - phenyltartramide	C ₁₆ H ₁₆ N ₂ O ₅	1.582	15

CAMPHOR - METHANOL

Mutual Solubility Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
41.2	58.8	-26.7	58.0	42.0	4.4
45.0	55.0	-19.3	62.0	38.0	11.5
50.0	50.0	-10.1	66.0	34.0	19.3
54.0	46.0	-3.3	70.0	30.0	27.7

BIPHENYL - METHANOL

Solubility A, Wt. %	t
6.16	19.5

№ 4591

ACENAPHTHENE - METHANOL

[1862]



Mutual Solubility, wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.39	99.61	0	1.20	98.80	40
0.38	99.62	10	1.77	98.23	50
0.48	99.52	20	2.35	97.65	60
0.72	99.28	30	2.90	97.10	70

№ 4592

[410]

DIPHENYLAMINE -

METHANOL



Solubility A, Wt. %	<i>t</i>
36.5	19.5

№ 4593

[1401]

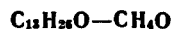
FLUORENE - METHANOL



Mutual Solubility, Mol. %		<i>t</i>
A	B	
0.35	99.65	20
0.58	99.42	40
1.10	98.90	60

№ 4594

[935]

2-TRIDECANONE -
METHANOL

Mutual Solubility, Mol. %		<i>t</i>
A	B	
1.4	98.6	-10
5.1	94.9	0
17.6	82.4	10
78.1	21.9	20

№ 4595

PHENANTHRENE - METHANOL

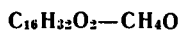
[887]



Mutual Solubility; Wt. %		<i>t</i>	Mutual Solubility, wt. %		<i>t</i>
A	B		A	B	
0.0	100.0	-10	2.91	97.09	15
0.60	99.40	-5	3.47	96.53	20
1.19	98.81	0	4.04	95.96	25
1.77	98.23	5	4.58	95.42	80
2.34	97.66	10			

№ 4596 [880]

**HEXADECANOIC ACID –
METHANOL (94.1%)**



Solubility A, g/l.	<i>t</i>
11.7	0.2

№ 4597

**SALTS OF MORPHINE –
METHANOL**

[1711]



t = 25

A		Solubility A, g/l.
Name	Formula	
Diacetylmorphine	$C_{21}H_{23}NO_5$	40
Diacetylmorphine Hydrochloride	$C_{21}H_{24}NO_5Cl$	111
Ethylmorphine Hydrochloride	$C_{17}H_{21}NO_3Cl$	666

№ 4598

[10]

**TRIPHENYLAMINE –
METHANOL (98.5%)**



Solubility A, Wt. %	<i>t</i>
0.72	20
3.2	74

№ 4599

[1711]

**CODEINE –
METHANOL**

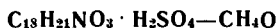


Solubility A, Wt. %	<i>t</i>
38.6	25

№ 4600

[1711]

**CODEINE SULFATE –
METHANOL**



Solubility A, Wt. %	<i>t</i>
0.56	25

№ 4601

2-UNDECYL.BENZOTHAZOLE – METHANOL

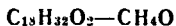
[637]



Mutual Solubility, wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
<1	>99	-10	11.5	88.5	30
4.3	95.7	0	15.7	84.3	40
6.3	93.7	10	23.3	76.7	50
8.6	91.4	20	Completely miscible		56

№ 4602

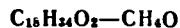
[932]

**9, 12-OCTADECADIENOIC
ACID – METHANOL**

Mutual Solubility, Wt.%		<i>t</i>
A	B	
3.2	96.8	-50
9.0	91.0	-40
32.5	67.5	-30
70.0	30.0	-20
94.9	5.1	-10
Completely miscible		0

№ 4603

[932]

**9, OCTADECENOIC ACID –
METHANOL**

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.3	99.7	-40
0.9	99.1	-30
3.8	96.2	-20
24.0	76.0	-10
71.4	28.6	0
94.8	5.2	10
Completely miscible		20

№ 4604

**CINCHONINE –
METHANOL**

[1711]



Solubility A, Wt.%	<i>t</i>
0.783	25

№ 4605

[1825]

**CINCHONIDINE –
METHANOL**

Solubility A, Wt.%	<i>t</i>
6.88	25

№ 4606 [935]

**2-NONADECANONE –
METHANOL**
 $C_{19}H_{38}O-CH_4O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
4.1	95.9	40
82.1	17.9	50

№ 4607 [1711]

**QUININE –
METHANOL**
 $C_{20}H_{24}N_2O_2-CH_4O$

Solubility A, g/l.	<i>t</i>
1333	25

№ 4608 [1711]

**QUINIDINE –
METHANOL**
 $C_{20}H_{24}N_2O_2-CH_4O$

Solubility A, g/l.	<i>t</i>
6.6	25

№ 4609 [1711]

**STRYCHNINE –
METHANOL**
 $C_{21}H_{22}N_2O_2-CH_4O$

Solubility A, Wt.%	<i>t</i>
0.48	25

№ 4610 [1711]

**STRYCHNINE NITRATE –
METHANOL**
 $C_{21}H_{22}N_2O_2 \cdot HNO_3-CH_4O$

Solubility A, g/l.	<i>t</i>
12.5	25

№ 4611 [1711]

**BRUCINE –
METHANOL**
 $C_{23}H_{26}N_2O_4-CH_4O$

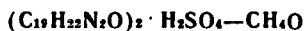
Solubility A, Wt.%	<i>t</i>
55.6	25

№ 4612 [637]

**2-HEPTADECYLBENZOTHAZOLE –
METHANOL**
 $C_{24}H_{30}NS-CH_4O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.6	99.4	20
0.7	99.3	30
0.9	99.1	40
1.2	98.8	50
Completely miscible		65

№ 4613 [1711]

**CINCHONINE SULFATE –
METHANOL**


Solubility A, Wt. %	<i>t</i>
45.6	25

№ 4614 [1711]

**CINCHONIDINE SULFATE –
METHANOL**


Solubility A, Wt. %	<i>t</i>
26.4	25

№ 4615 [1711]

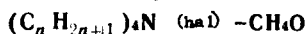
**STRYCHNINE SULFATE –
METHANOL**


Solubility A, g/l.	<i>t</i>
83.3	25

№ 4616

**TETRA - ALKYLAMMONIUM HALIDES –
METHANOL**

[1992]

*t* = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Tetramethylammonium Chloride	$C_4H_{12}NCl$	40.62
Tetramethylammonium Bromide	$C_4H_{12}NBr$	4.14
Tetramethylammonium Iodide	$C_4H_{12}NI$	0.39
Tetraethylammonium Bromide	$C_8H_{21}NBr$	59.85
Tetraethylammonium Iodide	$C_8H_{21}NI$	11.03
Tetrapropylammonium Bromide	$C_{12}H_{29}NBr$	72.88
Tetrapropylammonium Iodide	$C_{12}H_{29}NI$	57.28
Tetrabutylammonium Iodide	$C_{16}H_{36}NI$	71.95

№ 4617 [142]

**CELLULOSE ACETATE –
METHANOL**


Solubility A, Wt. %	<i>t</i>
0.03	0
0.13	50
1.5	100
3.0	110

№ 4618 [2113]

**COTTON SEED OIL –
METHANOL**


Mutual Solubility Wt. %		<i>t</i>
A	B	
95.02	4.98	25
7.93	92.07	25

* Characteristics of A: 54.61% of AcOH, specific viscosity 0.62
(0.25% solution), 0.18% ash content

 $t=4.5$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylenetetramine	C ₆ H ₁₈ N ₄	60.5
Trimethyltriethylenetetramine	C ₉ H ₂₄ N ₄	58.8
Tetramethyltriethylenetetramine	C ₁₀ H ₂₆ N ₄	52.3
Trimethyltriacetyltriethylenetetramine	C ₁₅ H ₂₀ N ₄ O ₃	52.0
Hexamethylenediamine	C ₆ H ₁₆ N ₂	57.8
N, N - Dimethylacetamide	C ₄ H ₉ NO	36.9
N - Methylacetamide	C ₃ H ₇ NO	29.7
Hexanedinitrile	C ₆ H ₈ N ₂	10.9
Decanedinitrile	C ₁₀ H ₁₆ N ₂	11.4
Ethylene Glycol	C ₂ H ₆ O ₂	18.8
Triethyl Phosphate	C ₆ H ₁₅ O ₄ P	39.0
n - Tributyl Borate	C ₁₂ H ₂₇ O ₃ B	18.6

№ 4620

[1797]

THIOUREA — ETHANOL



Mutual Solubility, Wt. %		<i>t</i>
A	B	
3.61	96.39	20.25
4.69	95.31	31.99
5.40	94.60	37.69
6.33	93.67	45.14
7.21	92.79	51.22
8.48	91.52	58.05
9.81	90.19	64.77

№ 4621

[585]

THIOUREA PYRIDINE

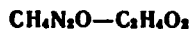


Solubility A, Wt. %	<i>t</i>
11.1	20

№ 4622

UREA – ACETIC ACID

[21]



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
3	97	15.3	46	54	53.0	70	30	101.5
5	95	13.0	48	52	59.0	80	20	110.5
8	92	19.7	50	50	65.5	86	14	116.8
15	85	30.8	52	48	71.0	90	10	121.5
25	75	39.9	54	46	76.0	95	5	125.0
33.3	66.7	41.5	56	44	81.5	100	0	132.6
36	64	40.7	60	40	90.5			
42	58	39.0	65	35	92.5			

№ 4623

UREA – ACETIC ACID

[6]

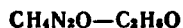


Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p	Mutual Solubility Wt.%		m.p
A	B		A	B		A	B	
0	100	16.6	25	75	37.0	64	36	90.5
3	97	14.5	30	70	38.8	73	27	103.5
5	95	12.6	33	67	39.0	80	20	109.9
8	92	17.5	35	65	38.6	84	16	114.5
12	88	24.0	40	60	36.9	89	11	119.7
15	85	27.3	45	55	51.0	95	5	125.9
20	80	34.0	55	45	71.5			

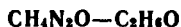
№ 4624

[175]

UREA – ETHANOL

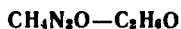


Mutual Solubility, Wt.%		<i>t</i>
A	B	
2.619	97.381	-9
3.157	96.843	0
4.762	95.238	18
8.634	91.366	41
14.02	85.98	60
23.55	76.45	81



Mutual Solubility, Wt. %		<i>t</i>	d_4^t	Mutual Solubility Wt. %		<i>t</i>	d_4^t
A	B			A	B		
2.534	97.466	0	0.8213	8.509	91.491	40	0.804
3.846	96.154	10	0.814	10.47	89.53	50	0.803
5.123	94.877	20	0.804	13.12	86.88	60	—
5.838	94.162	25	0.805	16.80	83.20	70	—
6.716	93.284	30	0.806				

UREA - ETHANOL



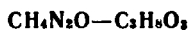
Solubility A, Wt. %	<i>t</i>
4.82	19.5

UREA - PROPANOIC ACID

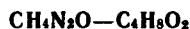


Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B		A	B	
0	100	-22.4	22	78	6.4	40	60	44.5
3	97	-24.3	25	75	11.5	46	54	68.1
5	95	-25.5	28	72	14.6	52	48	83.4
8	92	-21.9	30	70	17.5	71	29	104.5
12	88	-14.9	32	68	20.1	81	19	112.5
15	85	-13.6	33	67	22.4	90	10	122.2
18	82	-1.5	34	66	22.6			
20	80	2.6	37	63	32.4			

UREA - GLYCEROL



Solubility A, Wt. %	<i>t</i>
33.3	15



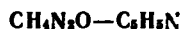
Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0	100	-8.3	20	80	5.3	50	50	92.5
3	97	-10.4	25	75	25.4	60	40	107.3
5	95	-11.4	30	70	41.5	70	30	114.8
8	92	-13.3	33	67	51.0	80	20	118.5
12	88	-15.2	35	65	57.0	90	10	126.2
15	85	-18.0	40	60	68.5			
18	82	-18.9	45	55	81.5			

UREA – ETHYL ETHER



Solubility A, g/l.	<i>t</i>
0.004	20

UREA – PYRIDINE



Solubility A, Wt.%	<i>t</i>
0.95	20

UREA – PENTANOIC ACID

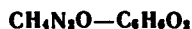


Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0	100	-33.6	33	67	60.0
5	95	-36.0	35	65	64.6
8	92	-40.0	40	60	80.2
12	88	-26.2	45	55	91.3
15	85	-21.1	50	50	96.9
18	82	-5.5	55	45	104.5
20	80	14.5	60	40	108.5
25	75	37.2	70	30	116.5
30	70	52.2	80	20	122.3

№ 4633

UREA - 1, 4 - BENZENEDIOL

[39]

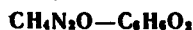


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0	100	171	42	58	127	77.5	22.5	112.6
10	90	161.3	45	55	128	78	22	111
20	80	151	50	50	129.2	79	21	110.5
30	70	140.1	55	45	127.5	80	20	111.3
35	65	134.3	60	40	126	82.5	17.5	114
37.5	62.5	130	65	35	122.7	85	15	116.5
40	60	127.1	70	30	120	90	10	122.1
41	59	126.4	75	25	115	100	0	133

№ 4634

UREA - 1, 3 - BENZENEDIOL

[39]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0	100	110	30	70	91	73	27	87.5
10	90	101	40	60	99.4	74	26	86.5
15	85	95	45	55	101	75	25	88
20	80	88.6	50	50	103.5	80	20	115
21	79	86.1	55	45	101.5	90	10	122.5
22.5	77.5	84.8	60	40	99	100	0	133
24	76	86	70	30	92.8			
25	75	87	72	28	89			

№ 4635

PHENYLACETIC ACID - UREA

[11]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
19.20	80.80	118.0	41.85	58.15	97.0	66.78	33.22	37.0
22.73	77.27	115.0	45.02	54.98	91.0	71.41	28.59	46.5
26.52	73.48	112.1	48.39	51.61	84.0	79.87	20.13	57.9
30.61	69.39	109.2	50.70	49.30	77.0	83.54	16.46	61.0
34.12	65.88	105.9	53.15	46.85	69.0	89.34	10.66	67.0
35.96	64.04	105.0	56.95	43.05	29.0	100.00	0.00	74.0
37.86	62.14	102.0	59.63	40.37	18.0			
39.81	60.19	100.0	63.81	36.19	30.0			

№ 4636

UREA - NONANOIC ACID

[6]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0	100	10.7	15	85	57.0	50	50	122.5
3	97	9.6	20	80	72.5	60	40	126.8
4	96	8.0	25	75	84.7	70	30	129.3
5	95	13.9	30	70	93.5	80	20	131.7
8	92	18.7	33	67	96.3	90	10	132.3
10	90	37.0	35	65	101.7			
12	88	44.0	40	60	111.3			

№ 4637

UREA - DODECANOIC ACID

[6]

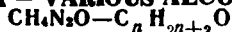


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0	100	44.0	15	85	81.6	33	67	115.5
3	97	43.9	18	82	90.1	40	60	121.5
6	94	43.5	20	80	95.5	45	55	127.5
8	92	61.0	25	75	106.5	50	50	129.0
12	88	74.5	30	70	112.5	55	45	130.0

№ 4638

UREA - VARIOUS ALCOHOLS

[175]



B		Solubility A, Wt.%	t
Name	Formula		
1-Propanol	$\text{C}_3\text{H}_8\text{O}$	1.623	0
"	"	2.496	20
"	"	4.871	40
"	"	7.167	60
"	"	10.94	80
"	"	15.30	98
2-Propanol	"	5.446	19.4
"	"	5.811	20
"	"	19.00	81
2-Methyl-1-propanol	$\text{C}_4\text{H}_{10}\text{O}$	1.0	0
"	"	1.623	19
"	"	3.026	41
"	"	4.214	60
"	"	5.962	80
"	"	9.091	98
3-Methyl-1-butanol	$\text{C}_5\text{H}_{12}\text{O}$	1.17	20
"	"	3.30	60
"	"	4.65	80
"	"	4.98	83
"	"	5.79	98
1-Octanol	$\text{C}_8\text{H}_{18}\text{O}$	0.56	19.4
"	"	1.96	98

**UREA PHOSPHATE —
ETHANOL**
 $\text{CO}(\text{NH}_2)_2 \cdot \text{H}_3\text{PO}_4 - \text{C}_2\text{H}_5\text{O}$

Solubility A, Wt. %	<i>t</i>	d_4^t
8.3	10	0.83
9.1	13	0.835
10.4	18	0.85
13.0	24.5	0.85
16.6	32	0.86
28.1	46	0.91

**METHYLAMINE —
VARIOUS SOLVENTS**

$\text{CH}_5\text{N} - \text{---}$

$t=4.5$

Solvent		Solubility A, Mol. %
Name	Formula	
Water	H_2O	45.7
Ethylene Glycol	$\text{C}_2\text{H}_6\text{O}_2$	66.2
Glycerol	$\text{C}_3\text{H}_8\text{O}_3$	65.2
Diethylene Glycol	$\text{C}_4\text{H}_{10}\text{O}_3$	65.3

№ 4641 **DICHLOROTETRAFLUOROETHANE — [2131]**
VARIOUS SOLVENTS

$\text{C}_2\text{Cl}_2\text{F}_4 - \text{---}$

$t=32$

Solvent		Solubility A, g/cc B (at $p = 736$)
Name	Formula	
Diethylene Glycol Monoethyl Ether Acetate	$\text{C}_8\text{H}_{16}\text{O}_4$	0.162
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	0.138

№ 4642 **TRICHLOROTRIFLUOROETHANE — [2131, 2132]**
VARIOUS SOLVENTS

$\text{C}_2\text{Cl}_3\text{F}_3 - \text{---}$

$t=32.2, P=132.5$

Solvent		Solubility A, Wt. %
Name	Formula	
Diethylene Glycol Monoethyl Acetate	$\text{C}_8\text{H}_{16}\text{O}_4$	24.81
Tetraethylene Glycol Dimethyl Ether	$\text{C}_{10}\text{H}_{22}\text{O}_5$	21.57
Diethylene Glycol Diethyl Ether	$\text{C}_8\text{H}_{18}\text{O}_3$	31.74

№ 4643

[1772]

**MALEIC ACID –
DICHLOROACETYLENE**

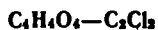


Solubility A, Wt. %		<i>t</i>
in trans - B	in cis - B	
0.076	0.049	40

№ 4644

[1772]

**FUMARIC ACID –
DICHLOROACETYLENE**



Solubility A in trans - B or cis - B, Wt. %	<i>t</i>
0.002	40

№ 4645

[1772]

**METHYLFUMARIC ACID –
DICHLOROACETYLENE**

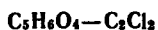


Solubility A, Wt. %		<i>t</i>
in trans - B	in cis - B	
0.046	0.006	40

№ 4646

[1772]

**METHYLMALEIC ACID –
DICHLOROACETYLENE**

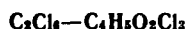


Solubility A, Wt. %		<i>t</i>
in trans - B	in cis - B	
0.047	0.68	40

№ 4647

HEXACHLOROETHANE – ETHYL TRICHLOROACETATE

[168]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
3.4	96.6	–18.0	31.6	68.4	50.5
14.9	85.1	15.3	33.4	66.6	53.0
19.5	80.5	26.0	38.2	61.8	60.5
23.6	76.4	35.2	43.7	56.3	67.5
24.1	75.9	36.5	45.9	54.1	71.0
25.1	74.9	38.0	47.8	52.2	74.8
26.0	74.0	40.0	56.1	43.9	98.0
27.1	72.9	42.0	67.2	32.8	124.0
27.5	72.5	43.0	75.6	24.4	140.5
28.3	71.7	44.5	90.6	9.4	163.0

№ 4648

HEXACHLOROETHANE-DICHLOROBENZENE

[168]

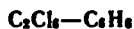


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.0	100.0	53.0	26.9	73.1	42.0	43.4	56.6	65.8
11.1	88.9	47.6	29.0	71.0	46.0	45.2	54.8	68.0
16.7	83.3	44.0	30.0	70.0	47.0	49.9	50.1	76.0
20.0	80.0	42.0	32.2	67.8	50.0	50.0	50.0	77.4
23.0	77.0	40.0	33.4	66.6	53.4	60.1	39.9	107.0
25.3	74.7	38.0	36.7	63.3	58.0	70.0	30.0	130.0
26.6	73.4	41.0	40.5	59.5	62.0	79.2	20.8	149.0

№ 4649

HEXACHLOROETHANE - BENZENE

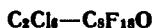
[168]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	5.5	28.0	72.0	43.0
2.9	97.1	4.5	29.0	71.0	45.0
4.8	95.2	3.0	29.4	70.6	46.0
6.8	93.2	1.4	29.8	70.2	47.0
10.9	89.1	4.0	34.0	66.0	53.5
12.1	87.9	7.0	36.0	64.0	57.0
15.9	84.1	16.5	42.5	57.5	64.0
17.0	83.0	19.0	44.8	55.2	67.6
20.5	79.5	26.0	46.6	53.4	71.0
23.0	77.0	32.0	47.8	52.2	73.4
24.5	75.5	36.0	49.8	50.2	78.0
24.8	75.2	37.5	53.8	46.2	90.0
26.9	73.1	41.0			

№ 4650

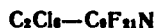
[1830]

HEXACHLOROETHANE -
PERFLUOROBUTOXYBUTANE

Solubility A, Mol.%	<i>t</i>
0.901	25
1.48	35

№ 4651

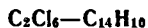
[1830]

HEXACHLOROETHANE -
PERFLUOROTRIPROPYLAMINE

Solubility A, Mol.%	<i>t</i>
1.11	25
1.60	35



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.0	100.0	80.0	38.1	61.9	60.0	54.2	45.8	85.0
10.0	90.0	74.1	42.0	58.0	64.0	55.1	44.9	94.0
17.7	82.3	71.0	45.1	54.9	68.5	60.6	39.4	107.0
26.7	73.3	63.3	48.7	51.3	73.0	70.2	29.8	130.0
33.0	67.0	59.0	50.1	49.9	78.0	85.3	14.7	157.0
35.1	64.9	57.7	52.0	48.0	83.0			



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0.0	100.0	213.0	68.2	31.8	149.0
24.2	75.8	194.0	73.8	26.2	140.0
33.9	66.1	182.9	83.0	17.0	154.0
49.6	50.4	170.0	91.8	8.2	164.0
60.0	40.0	160.0			

**m - NITROANILINE –
DIBROMOACETYLENE**



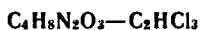
Mutual Solubility, Mol.%		t
A	B	
7.8	92.2	50
12.5	87.5	60
20.0	80.0	70
33.0	67.0	80
50.8	49.2	90
72.7	27.3	100
95.6	4.6	110

**p - NITROANILINE –
DIBROMOACETYLENE**



Mutual Solubility, Mol.%		t
A	B	
6.5	93.5	80
11.0	89.0	90
18.8	81.2	100
30.9	69.1	110
46.2	53.8	120
84.8	15.2	140

№ 4656 [2051]

**ASPARAGINE –
TRICHLOROETHYLENE**

Solubility A, Wt. %	<i>t</i>
0.018	15

№ 4657 [2051]

**CITRIC ACID –
TRICHLOROETHYLENE**

Solubility A, Wt. %	<i>t</i>
0.012	15

№ 4658 [2051]

**d - GLUCOSE –
TRICHLOROETHYLENE**

Solubility A, Wt. %	<i>t</i>
0.006	15

№ 4659 [2051]

**SACCHARINE –
TRICHLOROETHYLENE**

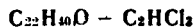
Solubility A, Wt. %	<i>t</i>
0.012	15

№ 4660 [2051]

**o - HYDROXYBENZOIC ACID –
TRICHLOROETHYLENE**

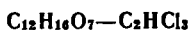
Solubility A, Wt. %	<i>t</i>
0.28	15

№ 4661 [2051]

**AGARIC ACID –
TRICHLOROETHYLENE**

Solubility A, Wt. %	<i>t</i>
0.014	15

№ 4662 [2051]

**ARBUTIN –
TRICHLOROETHYLENE**

Solubility A, Wt. %	<i>t</i>
0.011	15

№ 4663 **SUCROSE —** [2051]
TRICHLOROETHYLENE
 $C_{12}H_{22}O_{11} - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
0.004	15

№ 4664 **m-DIGALLIC ACID —** [2051]
TRICHLOROETHYLENE
 $C_{14}H_{18}O_5 - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
0.012	15

№ 4665 **PIPERINE —** [2051]
TRICHLOROETHYLENE
 $C_{17}H_{19}NO_3 - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
8.95	15

№ 4666 **CODEINE** [2051]
HYDROCHLORIDE —
TRICHLOROETHYLENE
 $C_{18}H_{21}NO_3 \cdot HCl - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
0.014	15

№ 4667 **NARCOTINE —** [2051]
TRICHLOROETHYLENE
 $C_{20}H_{23}NO_7 - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
6.1	15

№ 4668 **BRUCINE —** [2051]
TRICHLOROETHYLENE
 $C_{23}H_{26}N_2O_4 - C_2HCl_3$

Solubility A, Wt. %	<i>t</i>
2.5	15

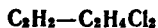
№ 4669 [205]
N-2-PROPENYL-N'-PHENYL-
THIOUREA — TRICHLOROACETIC ACID
 $C_{10}H_{12}N_2S - C_2HO_2Cl_3$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
44.69	55.31	50
58.81	41.19	69
68.66	31.34	74.5
75.57	24.43	81.8

№ 4670

[74]

ACETYLENE – DICHLOROETHANE



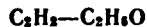
$t = 0$

Solubility A cc ($t=0, p=760$)/cc B	p
1.3	100
2.6	200
3.9	300
5.2	400
6.4	500
7.7	600
9.0	700
9.8	760

№ 4671

[74]

ACETYLENE – ETHANOL



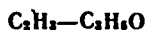
$t = 0$

Solubility A cc ($t=0, p=760$)/cc B	p
1.1	100
2.2	200
3.3	300
4.4	400
5.5	500
6.7	600
7.8	700
8.5	760

№ 4672

[964]

ACETYLENE – ACETONE

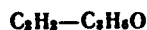


Solubility A cc/cc B	t
38.60	0
34.40	5
30.68	10
27.33	15
24.47	20
22.00	25
19.80	30
16.19	40

№ 4673

[1662]

ACETYLENE – ACETONE



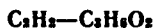
$P = 760$

Solubility A cc/g B	t
23.71	20
22.42	22
21.26	24
20.10	26
19.32	28
18.06	30

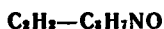
№ 4674

ACETYLENE – METHYL ACETATE

[964]



P	Solubility A cc/cc B	t	Solubility A cc/cc B	t
	38.04	0	23.82	20
	33.90	5	21.25	25
	30.13	10	18.97	30
	26.80	15	13.03	40



Solubility A, g/100g B	t	$P_{abs.}$ at	Solubility A, g/100g B	t	$P_{abs.}$ at
0.51	15	0.1	17.9	25	5.84
1.02	15	0.2	17.6	25	5.84
1.52	15	0.3	29.8	25	10.67
2.03	15	0.4	42.8	25	15.52
2.54	15	0.5	56.5	25	20.32
0.38	25	0.1	70.8	25	25.20
0.76	25	0.2	0.25	40	0.1
1.14	25	0.3	0.49	40	0.2
1.52	25	0.4	0.74	40	0.3
1.9	25	0.5	0.98	40	0.4
3.02	25	0.8	1.23	40	0.5

№ 4676

[1662]

ACETYLENE —
N, N - DIMETHYLFORMAMIDE

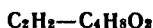
$P = 760$

Solubility A cc/g B	t
35.12	20
32.95	22
30.94	24
29.14	26
27.34	28
25.90	30

№ 4677

[1662]

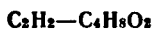
ACETYLENE — DIOXANE



Solubility A cc/g B	t	P
18.62	20	760

№ 4678

[944]

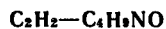
ACETYLENE —
ETHYL ACETATE

$t = 25$

Solubility A, g/100g B	$P_{abs.}$ at
1.93	1.00
11.21	5.84
21.36	10.68

№ 4679

[944]

ACETYLENE —
N, N - DIMETHYLACETAMIDE

$t = 25$

Solubility A, g/100g B	$P_{abs.}$ at
2.52	0.6
17.75	5.84
27.00	10.68
26.60	10.68
37.40	15.52

№ 4680 [944]
ACETYLENE —
N - METHYLPYRROLIDINE
 $C_2H_2-C_4H_7NO$
 $t = 25$

Solubility A, g/100g B	$P_{abs.}$ at
3.68	1.00
6.75	1.97
9.08	2.92
9.28	2.92
11.35	3.88
17.20	6.80
17.12	6.80
23.7	10.67
24.4	10.67
42.6	20.35

№ 4681 [964]
ACETYLENE —
CHLORO BENZENE
 $C_2H_2-C_6H_5Cl$

Solubility A cc/cc B	t
5.186	0
4.772	5
4.399	10
4.082	15
3.800	20
3.540	25
3.316	30
2.930	40
2.628	50
2.386	60
2.180	70

№ 4682 [964]
ACETYLENE — BENZENE
 $C_2H_2-C_6H_6$

Solubility A cc/cc B	t
6.184	10
5.661	15
5.202	20
4.816	25
4.449	30
3.849	40

№ 4683 [944]
ACETYLENE — 4 - METHYL -
3 - PENTEN - 2 - ONE
 $C_2H_2-C_6H_{10}O$
 $t = 25$

Solubility A, g/100g B	$P_{abs.}$ at
1.54	1.00
8.94	5.84
16.33	10.68

№ 4684 [944]
ACETYLENE —
ACETOACETIC ESTER
 $C_2H_2-C_6H_{10}O_2$
 $t = 25$

Solubility A, g/100g B	P
1.21	1.00
7.18	5.84
13.83	10.68
20.65	15.52
27.80	20.32
36.30	25.20

№ 4685 [23]
ACETYLENE —
ETHENYLOXYBUTANE
 $C_2H_2-C_6H_{12}O$

Solubility A, Mol. %	t
3.93	0
3.57	10
3.25	20
2.81	30
2.42	40
2.04	60
1.54	80

№ 4686 [944]

**ACETYLENE - 4 - HYDROXY - 4 -
METHYL - 2 - PENTANONE**



$t = 25$

Solubility A, g/100g B	P
1.06	1.00
5.60	5.84
9.08	10.68

№ 4687 [944]

**ACETYLENE - BUTYL
2 - HYDROXYPROPANOATE**



$t = 25$

Solubility A, g/100g B	$P_{\text{abs.}}$ at
1.49	1.00
10.65	7.78
22.55	15.52
22.65	15.52
30.85	20.32
40.30	25.20

№ 4688

ACETYLENE - KEROSENE *

[74]



Solubility A cc ($t=0, p=760$)/cc B	t	P	Solubility A cc ($t=0, p=760$)/cc B	t	P
0.35	-20	100	1.3	0	500
0.7	-20	200	1.6	0	600
1.1	-20	300	1.9	0	700
1.5	-20	400	2.05	0	760
1.9	-20	500	0.35	20	100
2.35	-20	600	0.45	20	200
2.9	-20	700	0.70	20	300
3.3	-20	760	0.90	20	400
0.2	0	100	1.15	20	500
0.5	0	200	1.35	20	600
0.8	0	300	1.60	20	700
1.05	0	400	1.70	20	760

* Kerosine from BAKU oil field; d_4^{20} 0.834, b.p. 140 - 210° at p 737 mm.

ACETYLENE – HEAVY SOLVENT*



$t = 0$

Solubility A cc ($t=0, p=760$)/cc B	p	Solubility A cc ($t=0, p=760$)/cc B	p
0.6	100	2.6	500
1.0	200	3.1	600
1.6	300	3.7	700
2.1	400	4.0	760

№ 4690 ACETYLENE – VARIOUS SOLVENTS [1014]



$t = 10$

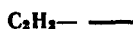
Solvent		Solubility A cc ($t=0, p=760$)/cc B
Name	Formula	
1, 1-Diethoxyethane	$C_6H_{14}O_2$	28.8
Acetaldehyde	C_2H_4O	60.2
Ethyl Acetate	$C_4H_8O_2$	44.5
Ethyl Formate	$C_3H_6O_2$	42.2
3-Methyl-1-butanol Acetate	$C_7H_{14}O_2$	29.3
3- " -1- " Formate	$C_6H_{12}O_2$	17.5
Methyl Acetate	$C_3H_6O_2$	52.3
Dimethoxymethane (b.p. = 45.5)	$C_3H_8O_2$	54.3

ACETYLENE – VARIOUS SOLVENTS,



Solvent		Solubility A, Wt. % ($P=760$)	t
Name	Formula		
Benzene	C_6H_6	0.743	4
Nitrobenzene	$C_6H_5NO_2$	0.570	3
Dimethylaniline	$C_8H_{11}N$	0.740	2.1
Cyclohexanol	$C_6H_{12}O$	0.954	2.6

* Heavy solvent; b.p. 150 – 250°, containing approximately equal quantities of olefin, aromatic and naphthenic hydrocarbons.



t = 25

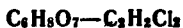
Solvent		Solubility A cc (t=0, p=760) /cc B
Name	Formula	
Phosphoryl Hexamethyltriamide	[(CH ₃) ₂ N] ₃ PO	43
N, N - Dimethylformamide	C ₃ H ₇ NO	33.5
Methyl Tetramethyldiamidophosphite	[(CH ₃) ₂ N] ₂ CH ₃ PO	33
Dimethylsulfoxide	C ₂ H ₆ OS	32
Tetramethylenesulfoxide	C ₄ H ₈ OS	30.7
N, N, N', N' - Tetramethylurea	C ₅ H ₁₂ N ₂ O	25.6
N, N - Dimethyl Acetamide	C ₄ H ₉ NO	24.4
Acetylpyrrolidine	C ₆ H ₁₁ NO	24.2
Acetaldehyde	C ₂ H ₄ O	24.1
Phosphoryl Tritetramethylenetriamide	(C ₄ H ₈ N) ₃ PO	22.3
Dimethoxymethane	C ₃ H ₈ O ₂	22.3
Methylnaphthodioxane	C ₇ H ₁₂ O ₄	22
Methyl Formate	C ₂ H ₄ O ₂	20
Methyl Acetate	C ₃ H ₆ O ₂	19.5
Methyl Phosphite	C ₂ H ₆ O ₃ P	19
Ethyl Phosphate	C ₆ H ₁₅ O ₄ P	19
Fluorophosphoryl Tetramethyldiamide	[(CH ₃) ₂ N] ₂ POF	19
Tetraethylene Glycol Dimethyl Ether	C ₁₀ H ₂₂ O ₅	19
Acetone	C ₃ H ₆ O	18.9
Ethyl Acetate	C ₄ H ₈ O ₂	18.2
N, N - Diethylformamide	C ₅ H ₁₁ NO	18.1
Ethyl Formate	C ₃ H ₆ O ₂	17.5
Methyl N, N - Dimethylcarbamate	C ₄ H ₉ NO ₂	16.8
Formylpyrrolidine	C ₅ H ₉ NO	16.8
Bromoethane	C ₂ H ₅ Br	16.2
4 - Hydroxybutanoic Acid Lactone	C ₄ H ₆ O ₂	15
N, N, N', N' - Tetramethyldiaminoacetamide	CH ₃ CON[N(CH ₃) ₂] ₂	14.8
1, 2 - Epoxyethane	C ₂ H ₄ O	14.2
1, 1, 2 - Tetramethoxyethane	CH(OCH ₃) ₂ CH(OCH ₃) ₂	14.2
Acetonitrile	C ₂ H ₃ N	14
Ethyl Dimethoxyethoxyacetate	C(OCH ₃) ₂ (OC ₂ H ₅)CO ₂ C ₂ H ₅	14
1, 1, 1 - Trimethoxyethane	CH ₃ C(OCH ₃) ₃	13.6
Trimethyl Trithiophosphate	(CH ₃ S) ₃ PO	13
2 - Methyl - 2 - Methoxy - 1, 3 - Dioxolane	CH ₂ OC(OCH ₃)CH ₂ OCH ₂	13
Methyl Borate	C ₃ H ₉ BO ₃	12
1, 1 - Diethoxyethane	C ₆ H ₁₄ O ₂	11.9
N - Nitrosopyrrolidine	C ₄ H ₈ N ₂ O	11
Methyl Benzoate	C ₈ H ₈ O ₂	10.2
Propanal	C ₃ H ₆ O	9.8
Ethyl Perfluorobutyrate	C ₆ H ₅ O ₂ F ₇	8.5
n - Propyl Carbonate	C ₇ H ₁₄ O ₃	8.3
Triethoxymethane	CH(OC ₂ H ₅) ₃	7.7
Tetraethyl Silicate	(C ₂ H ₅ O) ₄ Si	6.2
Benzophenone	C ₁₃ H ₁₀ O	6.0

Solvent		Solubility A cc ($t=0$, $p=760$) /cc B
Name	Formula	
N, N - Dimethylaniline	$C_8H_{11}N$	6.1
2 - Pentanone	$C_7H_{14}O$	6.0
Acetic Acid	$C_2H_4O_2$	5.8
Ethanol	C_2H_6O	5.8
1 - Pentanol	$C_5H_{12}O$	3.4
Benzene	C_6H_6	5.6
Chloroform	$CHCl_3$	3.9
Dimethyldisulfide	$C_2H_6S_2$	3.8
Iodoethane	C_2H_5I	3.6
Carbon Disulfide	CS_2	1.0
Carbon Tetrachloride	CCl_4	0.23

№ 4693

[2051]

**CITRIC ACID –
DICHLOROETHYLENE**



Solubility A, Wt.%	t
0.005	15

№ 4694

[2051]

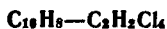
**o - HYDROXYBENZOIC ACID –
DICHLOROETHYLENE**



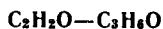
Solubility A, Wt.%	t
0.751	15

№ 4695 NAPHTHALENE – [510]

TETRACHLOROETHANE

 $t = 30$

Mutual Solubility, Wt.%		$P_{abs.}$ at
A	B	
35.07	64.93	0
30.26	69.74	250
26.40	73.60	500
23.33	76.67	750
20.89	79.11	1000

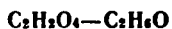


Solubility A, * Vol. %	t	P	Solubility A, Vol. %	t	P
0.70	7	64	10.75	25	302
1.15	7	86	2.02	0	126
1.46	7	121	2.71	0	170
1.80	7	146	3.89	0	246
2.86	7	226	4.61	0	291
3.25	7	251	5.25	0	325
4.08	7	308	6.06	0	367
0.90	3	69	9.30	0	526
1.41	3	96	1.33	-5	79
2.34	3	162	2.28	-5	142
3.42	3	236	3.63	-5	223
4.61	3	307	4.41	-5	289
5.38	3	354	5.43	-5	305
6.74	3	421	6.32	-5	353
0.84	-10	54	7.31	-5	388
1.30	-10	65	2.50	-28	78
2.40	-10	130	3.80	-28	112
3.40	-10	174	6.70	-28	184
5.00	-10	238	7.48	-28	202
7.40	-10	353	18.65	-28	227
11.2	-10	473	10.3	-28	258
0.90	-15	50	2.7	-28	297
2.50	-15	116	1.55	-30	46
4.70	-15	210	2.49	-30	70
5.30	-15	227	5.00	-30	130
6.97	-15	297	7.50	-30	185
7.64	-15	335	8.80	-30	220
9.16	-15	367	0.67	-32	17
1.85	-20	75	1.24	-32	26
3.64	-20	147	3.15	-32	73
5.05	-20	192	3.65	-32	90
6.67	-20	248	4.97	-32	117
6.95	-20	257	7.48	-32	167
8.05	-20	304	9.05	-32	198
11.0	-20	365	11.52	-32	236
1.00	-25	36	1.30	-36	26
2.50	-25	79	2.80	-36	56
2.80	-25	96	4.35	-36	84
4.50	-25	146	6.25	-36	118
6.00	-25	191	8.40	-36	148
6.80	-25	212	10.5	-36	178
9.16	-25	265	11.9	-36	192

$$* \text{ Solubility A} = \left(\frac{P}{1.367 - 301.3} \right)^{1.093} \text{ g/100 mg of solution.}$$

№ 4697 [175]

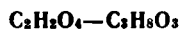
**OXALIC ACID —
ETHANOL**



Mutual Solubility, Wt.%		<i>t</i>
A	B	
22.4	77.6	-1.5
26.2	73.8	18.5
26.9	73.1	20.2

№ 4698 [1476, 1477]

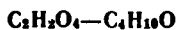
**OXALIC ACID —
GLYCEROL**



Solubility A, Wt.%	<i>t</i>
13.0	15.5

№ 4699 [175]

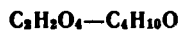
**OXALIC ACID —
2 - METHYL - 1 - PROPANOL**



Solubility A, Wt.%	<i>t</i>
10.9	20.2

№ 4700 [344]

**OXALIC ACID —
ETHYL ETHER**



Solubility A, Wt.%	<i>t</i>
1.45	25

№ 4701 [1719]

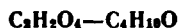
**OXALIC ACID —
ETHYL ETHER**



Solubility A, g/l.	<i>t</i>
13.7	23.5

№ 4702 [1772]

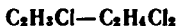
**OXALIC ACID —
ETHYL ETHER**



Solubility A, Wt.%	<i>t</i>
1.32	20

№ 470^o [74]

**CHLOROETHYLENE —
DICHLOROETHANE**

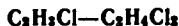


$$t = 0$$

Solubility A cc (<i>t</i> = 0, <i>p</i> = 760)/cc B	<i>P</i>
24	100
48	200
76	300
106	400

№ 4704 [1278]

**CHLOROETHYLENE —
1, 1 - DICHLOROETHANE**



Solubility A, Mol./l.	<i>t</i>
4.0	20
2.0	30
1.5	40
0.95	50

№ 4705 CHLOROETHYLENE— [74]

ETHANOL



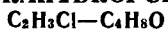
$t = 0$

Solubility A cc ($t=0$, $p=760$)/cc B	P
10	100
22	200
33	300
47	400

№ 4707 [1278]

CHLOROETHYLENE —

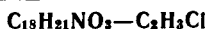
TETRAHYDROFURAN



Solubility A, mol/l	t
5.5	20
3.0	30
1.7	40
0.85	50

№ 4709

CODEINE — CHLOROETHYLENE

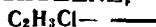


Solubility A, Wt. %	t
	10
	7
	15

№ 4710

CHLOROETHYLENE; — KEROSENE *

[74]



Solubility A cc ($t=0$, $p=760$) /cc B	t	P	Solubility A cc ($t=0$, $p=760$) /cc B	t	P	Solubility A cc ($t=0$, $p=760$) /cc B	t	P
37	-20	100	62	0	500	19	20	400
77	-20	200	85	0	600	25	20	500
125	-20	300	110	0	700	31	20	600
8	0	100	125	0	760	37	20	700
18	0	200	4.5	20	100	40	20	760
29	0	300	9	20	200			
43	0	400	13.5	20	300			

* Kerosine from BAKU oil field; d_4^{20} 0.834, b.p. 140 — 210° at p 737 mm.

№ 4706 [1278]

CHLOROETHYLENE

N, N - DIMETHYLFORMAMIDE

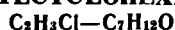


Solubility A, mol/l	t
4.0	20
2.5	30
1.9	40
1.25	50

№ 4708 [1278]

CHLOROETHYLENE —

METHYLCYCLOHEXANONE



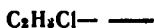
Solubility A, mol/l	t
3.8	20
1.7	30
1.2	40
0.85	50

[2051]

№ 4711

[74]

**CHLOROETHYLENE —
SOLAR OIL**



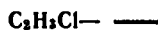
$$t = 0$$

Solubility A cc ($t=0$, $p=760$)/cc B	p
8	100
16	200
24	300
33	400
44	500
60	600

№ 4712

[74]

**CHLOROETHYLENE —
HEAVY SOLVENT***



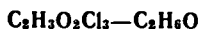
$$t = 0$$

Solubility A cc ($t=0$, $p=760$)/cc B	p
13	100
28	200
48	300
67	400

№ 4713

CHLORAL HYDRATE — ETHANOL

[1862]



Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
65.26	34.72	0	85.92	14.08	25
66.67	33.33	5	90.48	9.52	30
68.75	31.25	10	94.08	5.92	35
75.61	24.39	15	96.53	3.47	40
80.95	19.05	20	98.24	1.76	45

№ 4714

[1589]

**CHLORAL HYDRATE —
ETHANOL**

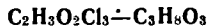


Solubility A, Wt. %	t
68.2	20

№ 4715

[1868]

**CHLORAL HYDRATE —
GLYCEROL**



Solubility A, Wt. %	t
66.7	20

№ 4716

[1868]

**CHLORAL HYDRATE —
ETHYL ETHER**



Solubility A, Wt. %	t
66.7	20

№ 4717

[585]

CHLORAL HYDRATE — PYRIDINE



Solubility A, Wt. %	t
44.7	20

* Heavy solvent; b.p. 150 — 250°, containing approximately equal quantities of olefin, aromatic and naphthenic hydrocarbons.

№ 4718

CHLORAL HYDRATE — TOLUENE

[1862]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
3.15	96.85	0	23.66	76.34	25
5.21	94.79	5	33.33	66.67	30
7.41	92.59	10	43.50	56.50	35
11.50	88.50	15	55.35	44.65	40
17.36	82.64	20	66.67	33.33	45

№ 4719

[1569]

CHLORAL HYDRATE — QUINOLINE

Solubility A, Wt. %	<i>t</i>
11.16	20

№ 4720

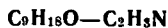
[1868]

**CHLORAL HYDRATE —
OLIVE OIL**

Solubility A, Wt. %	<i>t</i>
50	20

№ 4721

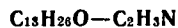
[935]

2 - NONANONE — ACETONITRILE

Mutual Solubility Wt. %		<i>t</i>
A	B	
3.2	96.8	-40
21.4	78.6	-30
68.9	31.1	-20
95.9	4.1	-10

№ 4722

[935]

2 - TRIDECANONE — ACETONITRILE

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.7	99.3	-10
3.4	96.6	0
14.0	86.0	10
84.0	16.0	20

№ 4723

[637]

**2 - UNDECYLBENZOTHAZOLE —
ACETONITRILE**

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
0.1	99.9	0	12.3	87.7	40
2.5	97.5	10	16.1	83.9	50
6.7	93.3	20	Completely miscible		79
9.2	90.8	30			

№ 4724

**9, 12 - OCTADECADIENOIC ACID —
ACETONITRILE**
 $C_{18}H_{32}O_2 - C_2H_3N$

[933]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
<0.1	>99.9	—40	7.0	93.0	0
0.2	99.8	—30	10.1	89.9	10
0.4	99.6	—20	15.0	85.0	20
4.7	95.3	—10	Completely miscible		<39.5

№ 4725

9 - OCTADECENOIC ACID — ACETONITRILE
 $C_{18}H_{34}O_2 - C_2H_3N$

[932]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.1	99.9	—40	1.8	98.2	0
0.3	99.7	—30	7.1	92.9	10
0.7	99.3	—20	8.3	91.7	20
1.1	98.9	—10	Completely miscible		>61

№ 4726

**2 - NONADECANONE —
ACETONITRILE**
 $C_{19}H_{38}O - C_2H_3N$

[935]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.2	99.8	30
3.8	96.2	40
87.6	12.4	50

№ 4727

**2 - HEPTADECYLBENZOTHAZOLE —
ACETONITRILE**
 $C_{24}H_{30}NS - C_2H_3N$

[637]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
<1	>99	40
1.0	99.0	50
Completely miscible		>82

№ 4728

ETHYLENE — DICHLOROETHANE
 $C_2H_4 - C_2H_4Cl_2$
t = 0

[73]

Solubility A cc/cc B	<i>P</i>	Solubility A cc/cc B	<i>P</i>
0.25	50	3.00	500
0.55	100	3.55	600
1.15	200	4.15	700
1.80	300	4.50	760
2.40	400		

№ 4729 ETHYLENE — [2092]
 ETHANOL
 $C_2H_4-C_2H_6O$

Solubility A cc/cc B	<i>t</i>
0.3595	0
0.3375	4
0.3086	10
0.2882	15
0.2713	20

№ 4730 ETHYLENE — ACETONE [1263]
 $C_2H_4-C_3H_6O$

Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
2.290	20
2.046	35

№ 4731 ETHYLENE — ACETONE [964]
 $C_2H_4-C_3H_6O$

Solubility A cc/cc B	<i>t</i>
4.843	0
4.572	5
4.308	10
4.074	15
3.847	20
3.640	25
3.473	30
3.285	35
3.142	40

№ 4732 ETHYLENE — METHYL ACETATE [964]
 $C_2H_4-C_3H_6O_2$

Solubility A cc/cc B	<i>t</i>
4.618	0
4.379	5
4.156	10
3.914	15
3.709	20
3.521	25
3.348	30
3.185	35
3.049	40

№ 4733 ETHYLENE — CHLOROBENZENE [964]
 $C_2H_4-C_6H_5Cl$

Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
3.882	0	2.887	25	2.084	60
3.640	5	2.714	30	1.932	70
3.425	10	2.576	35	1.815	80
3.221	15	2.460	40	1.707	90
3.018	20	2.265	50		

№ 4734 [1263]
 ETHYLENE — BENZENE
 $C_2H_4-C_6H_6$

Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
2.786	22
2.353	35
2.100	50

№ 4735

ETHYLENE - BENZENE

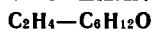
[964]



Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
4.268	5	3.241	30
4.017	10	3.087	35
3.796	15	2.955	40
3.591	20	2.708	50
3.403	25		

№ 4736

[470]

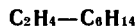
ETHYLENE -
CYCLOHEXANOL

<i>t</i>	Solubility A cc/cc B	<i>t</i>
	0.299	26

№ 4737

[1263]

ETHYLENE - HEXANE



Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
2.814	22
2.505	35
2.219	45

№ 4738

[1662]

ETHYLENE - HEXANE

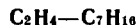


Solubility A cc/cc B	<i>t</i>	<i>P</i>
2.83	35	760

№ 4739

[1263]

ETHYLENE - HEPTANE

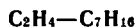


Solubility A cc (<i>t</i> =0, <i>p</i> =760)/cc B	<i>t</i>
3.207	22.4
2.824	35
2.722	39

№ 4740

[1662]

ETHYLENE - HEPTANE

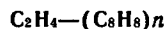


Solubility A cc/cc B	<i>t</i>	<i>P</i>
3.19	35	760

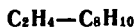
№ 4741

[1447]

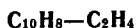
ETHYLENE - POLYSTYRENE

*t*=170

Solubility A cc (<i>t</i> =0, <i>p</i> =760)/g B	<i>p</i> _{abs.} at
5.27	49
8.05	77.5
9.20	92.5
10.30	92.5



Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>
0.85	-21	50	4.10	0	500
1.35	-21	100	4.80	0	600
2.60	-21	200	5.50	0	700
3.82	-21	300	5.95	0	760
5.00	-21	400	0.30	20	50
6.15	-21	500	0.45	20	100
7.35	-21	600	0.90	20	200
8.45	-21	700	1.45	20	300
9.10	-21	760	1.95	20	400
0.70	-10	50	2.50	20	500
1.20	-10	100	3.00	20	600
2.40	-10	200	3.50	20	700
3.25	-10	300	3.80	20	760
4.10	-10	400	0.25	40	50
5.00	-10	500	0.40	40	100
5.95	-10	600	0.85	40	200
6.90	-10	700	1.30	40	300
7.50	-10	760	1.75	40	400
0.55	0	50	2.25	40	500
0.90	0	100	2.60	40	600
1.80	0	200	2.80	40	700
2.30	0	300	3.03	40	760
3.40	0	400			



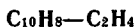
Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt. %	<i>t</i>	<i>P</i> _{abs.} at
0.130	12	38.0	3.003	12	89.1
0.273	12	47.3	3.034	12	89.1
0.409	12	52.0	3.209	12	93.8
0.913	12	52.9	3.459	12	98.5
1.191	12	53.8	3.463	12	98.8
1.430	12	55.7	3.503	12	103.1
1.460	12	56.6	0.016	25	47.8
1.616	12	58.4	0.083	25	56.6
1.899	12	61.2	0.117	25	57.4
2.367	12	70.4	0.344	25	62.3
2.649	12	75.1	0.603	25	64.6
2.810	12	79.8	0.711	25	65.8
3.071	12	84.5	0.985	25	67.0

Solubility A, Wt. %	<i>t</i>	P abs. at	Solubility A, Wt. %	<i>t</i>	P abs. at
0.992	25	67.0	0.118	35	54.8
1.026	25	67.0	0.251	35	63.1
1.767	25	71.7	0.419	35	65.8
2.474	25	76.4	0.677	35	72.3
2.954	25	83.1	1.410	35	79.1
3.119	25	84.5	2.254	35	84.5
3.338	25	87.8	2.320	35	84.5
3.404	25	89.1	3.546	35	93.8
3.827	25	92.3	4.141	35	99.4
3.776	25	93.8	4.762	35	103.1
3.890	25	95.3	5.186	35	105.7
3.987	25	98.0	5.565	35	109.0
4.014	25	98.0	6.140	35	112.9
4.084	25	98.5			

№ 4744

NAPHTHALENE — ETHYLENE

[609]

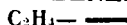


Solubility A, Mol. %	<i>t</i>	P abs. at	Solubility A, Mol. %	<i>t</i>	P abs. at
1.06	12	140.2	3.51	45	156.4
1.19	12	169.6	4.71	45	185.1
1.33	12	189.8	5.75	45	208.8
1.57	12	237.4	6.76	45	237.4
1.15	25	111.4	7.66	45	270.3
1.41	25	126.3	0.139	50	46.6
1.72	25	150.6	0.156	50	65.2
2.09	25	189.8	0.188	50	75.1
2.53	25	255.9	0.339	50	84.7
1.70	35	126.3	0.614	50	94.2
2.04	35	142.2	0.980	50	103.9
2.17	35	145.7	1.575	50	113.6
3.01	35	189.8	2.20	50	123.0
3.66	35	237.4	2.94	50	132.4
4.01	35	270.3	3.78	50	142.2
0.048	45	40.6	4.61	50	151.8
0.034	45	45.4	5.63	50	161.0
0.070	45	52.0	7.39	50	175.5
0.083	45	61.2	9.13	50	183.2
0.098	45	70.4	10.75	50	189.8
0.239	45	79.8	12.98	50	194.7
0.854	45	98.5	14.32	50	199.4
1.522	45	112.3	15.34	50	204.2
1.682	45	117.4	16.54	50	218.3
1.915	45	121.2	17.37	50	237.4
2.57	45	137.2	17.98	50	270.3
2.86	45	142.2	48.2	60	270.3

№ 4745

ETHYLENE - BENZENE HEADS*

[73]

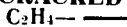


Solubility A cc/cc B	p	Solubility A cc/cc B	p	Solubility A cc/cc B	p
0.30	50	1.90	300	3.85	600
0.60	100	2.60	400	4.45	700
1.25	200	3.25	500	4.80	760

№ 4746

ETHYLENE - CRACKED BENZENE**

[73]

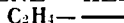


Solubility A cc/cc B	t	p	Solubility A cc/cc B	t	p	Solubility A cc/cc B	t	p
1.35	-21	100	6.95	-10	700	3.70	20	500
2.75	-21	200	7.40	-10	760	4.20	20	600
3.95	-21	300	0.95	0	100	4.50	20	700
5.15	-21	400	1.95	0	200	4.60	20	760
6.30	-21	500	2.95	0	300	0.65	40	100
7.45	-21	600	3.80	0	400	1.30	40	200
8.45	-21	700	4.55	0	500	1.80	40	300
9.05	-21	760	5.30	0	600	2.30	40	400
1.10	-10	100	5.95	0	700	2.70	40	500
2.20	-10	200	6.40	0	760	3.05	40	600
3.30	-10	300	0.75	20	100	3.40	40	700
4.30	-10	400	1.50	20	200	3.60	40	760
5.25	-10	500	2.30	20	300			
6.25	-10	600	3.05	20	400			

№ 4747

ETHYLENE - KEROSENE***

[73]



Solubility A cc/cc B	t	R	Solubility A cc/cc B	t	p	Solubility A cc/cc B	t	p
1.00	-21	100	5.65	-10	700	2.30	20	500
2.00	-21	200	6.15	-10	760	2.70	20	600
3.05	-21	300	0.70	0	100	3.10	20	700
4.10	-21	400	1.40	0	200	3.32	20	760
5.10	-21	500	2.05	0	300	0.35	40	100
6.10	-21	600	2.65	0	400	0.65	40	200
7.10	-21	700	3.25	0	500	0.95	40	300
7.65	-21	760	3.85	0	600	1.30	40	400
0.80	-10	100	4.50	0	700	1.65	40	500
1.60	-10	200	4.90	0	760	1.95	40	600
2.40	-10	300	0.55	20	100	2.20	40	700
3.25	-10	400	1.10	20	200	2.35	40	760
4.10	-10	500	1.55	20	300			
4.90	-10	600	1.95	20	400			

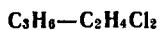
* Top-product had b.p. 50 - 90°, the greater part had been distilled at 60 - 70°.

** Cracked gasoline contained 30% unsaturated hydrocarbons, and had b.p. 61.8 - 200° at p 750 mm.

*** Kerosine from BAKU oil field; d₄²⁰ 0.834, b.p. 140 - 210° at p 737 mm.

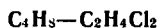


Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>
50	-10	100	25	20	100
112	-10	150	38	20	150
190	-10	200	52	20	200
300	-10	240	67	20	240
37	0	100	85	20	300
70	0	150	125	20	400
107	0	200	182	20	500
150	0	240	272	20	600
227	0	300	340	20	640



$$t = 0$$

Solubility A cc/cc B	<i>P</i>	Solubility A cc/cc B	<i>P</i>
2.8	50	17.3	500
3.6	100	20.2	600
7.1	200	23.2	700
10.6	300	25.2	760
14.1	400		



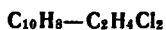
$$t = 0$$

Solubility A cc/cc B	<i>P</i>
6.0	50
12.0	100
18.0	150
24.0	200
37.0	250
50.0	300

№ 4751

NAPHTHALENE – DICHLOROETHANE

[1904]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
31.8	68.2	25	62.0	38.0	55
36.0	64.0	30	68.6	31.4	60
40.5	59.5	35	75.6	24.4	65
45.2	54.8	40	83.1	16.9	70
50.3	49.7	45	91.1	8.9	75
56.0	44.0	50			

№ 4752

[1904]

NAPHTHALENE – 1, 1-
DICHLOROETHANE
 $C_{10}H_8 - C_2H_4Cl_2$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
35.0	65.0	30
39.1	60.9	35
43.7	56.3	40
48.8	51.2	45
54.5	45.5	50
60.8	39.2	55
67.4	32.6	60
74.5	25.5	65
82.5	17.5	70
90.9	9.1	75

№ 4753

[67]

ANTIPYRINE –
DICHLOROETHANE
 $C_{11}H_{12}N_2O - C_2H_4Cl_2$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
20.0	80.0	12.5
21.0	79.0	15.5
23.2	76.8	20.5
26.5	73.5	26.5
30.9	69.1	36.0
35.1	64.9	44.0
40.0	60.0	55.0
46.0	54.0	64.0
52.0	48.0	71.0

№ 4754

[1401]

FLUORENE – DICHLOROETHANE



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
7.1	92.9	0	35.6	64.4	60
12.9	87.1	20	54.1	45.9	80
22.0	78.0	40	78.4	21.6	100

№ 4755 [20]

**DICHLOROETHANE —
SCARLET DYE J FOR
SILK ACETATE**
 $C_2H_4Cl_2 - C_{16}H_{18}N_4O_3$

Solubility A, Wt. %	<i>t</i>
1.15	20

№ 4757 [20]

**DICHLOROETHANE —
SUDAN YELLOW DYE U**
 $C_2H_4Cl_2 - C_{18}H_{18}N_4O$

Solubility A Wt. %	<i>t</i>
2.84	20

№ 4759 [20]

**DICHLOROETHANE —
SUDAN BLUE DYE U**
 $C_2H_4Cl_2 - C_{22}H_{16}N_2O_2$

Solubility A, Wt. %	<i>t</i>
1.28	20

№ 4761 [20]

**DICHLOROETHANE —
ACID DYE BRIGHT GREEN J**
 $C_2H_4Cl_2 - C_{27}H_{24}N_2O_6S_2Na$

Solubility A, Wt. %	<i>t</i>
0.004	20

№ 4756 [20]

**DICHLOROETHANE —
BLUE DYE K FOR SILK
ACETATE**
 $C_2H_4Cl_2 - C_{17}H_{16}N_2O_3$

Solubility A, Wt. %	<i>t</i>
0.19	20

№ 4758 [932]

**9 - OCTADECENOIC ACID —
DICHLOROETHANE**
 $C_{18}H_{34}O_2 - C_2H_4Cl_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
< 0.1	> 99.9	-30
1.3	98.7	-20
20.9	79.1	-10
56.5	43.5	0
87.0	13.0	10
Completely miscible		20

№ 4760 [20]

**DICHLOROETHANE —
SUDAN RED DYE 7B**
 $C_2H_4Cl_2 - C_{24}H_{21}N_5$

Solubility A, Wt. %	<i>t</i>
12.7	20

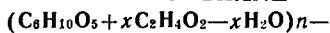
№ 4762 [20]

**DICHLOROETHANE —
CYANINE DYE GREEN 5G**
 $C_2H_4Cl_2 - C_{28}H_{22}N_2O_4$

Solubility A, Wt. %	<i>t</i>
0.81	20

№ 4763 [142]

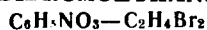
**CELLULOSE ACETATE* —
DICHLOROETHANE**



Solubility A, Wt. %		<i>t</i>
Upper layer	Lower layer	
0.27	—	0
0.77	—	10
1.16	6.5	20
1.37	—	30
1.87	—	40
Miscible in all proportions		57

№ 4764 [1816]

**o-NITROPHENOL —
DIBROMOETHANE**

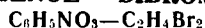


Mutual Solubility Wt. %		<i>t</i>
A	B	
40	60	15
47.8	52.2	20
56.8	43.2	25
67.2	32.8	30
79.0	21.0	35
90.6	9.4	40

№ 4765

[1816]

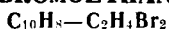
p-NITROPHENOL — DIBROMOETHANE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
31	69	70
52	48	80
73.2	26.8	90
88.5	11.5	100
98	2	110

№ 4766 [1904]

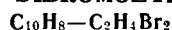
**NAPHTHALENE —
DIBROMOETHANE**



Mutual Solubility, Mol. %		<i>t</i>
A	B	
26.2	73.8	20
30.2	69.8	25
34.4	65.6	30
38.9	61.1	35
43.9	56.1	40
49.3	50.7	45
55.2	44.8	50
61.5	38.5	55
68.2	31.8	60
75.2	24.8	65
82.8	17.2	70
91.0	9.0	75

№ 4767 [1904]

1, 1-DIBROMOETHANE*



Mutual Solubility, Mol. %		<i>t</i>
A	B	
28.6	71.4	20
32.4	67.6	25
36.6	63.4	30
40.9	59.1	35
45.6	54.4	40
50.6	49.4	45
56.2	43.8	50
62.1	37.9	55
68.5	31.5	60
75.5	24.5	65
83.0	17.0	70
91.0	9.0	75

* Characteristics of A: 54.61% of AcOH, specific viscosity 0.62 (0.25% solution)
0.18% ash content

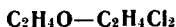
**TRIAZOTHIONTHIOCYANATE —
VARIOUS SOLVENTS**



$$t = 0$$

Solvent		Solubility A, g/l.
Name	Formula	
Water	H ₂ O	1.5
Carbon Tetrachloride	CCl ₄	2.2
Carbon Disulfide	CS ₂	2.9
Ethyl Ether	C ₄ H ₁₀ O	11.1
Ethanol	C ₂ H ₆ O	26.1
Chloroform	CHCl ₃	31.7
Methanol	CH ₄ O	62.7
Ethyl Acetate	C ₄ H ₈ O ₂	131.9
Acetone	C ₃ H ₆ O	246.9

1, 2 - EPOXYETHANE — DICHLOROETHANE



Mutual Solubility Wt. %		t	P	Mutual Solubility Wt. %		t	P
A	B			A	B		
9.73	90.27	0	116.8	37.99	62.01	10	365.8
25.49	74.51	0	191.3	46.24	53.76	10	433.3
28.65	71.35	0	208.3	54.32	45.68	10	486.4
37.99	62.01	0	265.7	9.73	90.27	20	214.6
46.24	53.76	0	320.6	25.49	74.51	20	381.7
54.32	45.68	0	339.4	28.65	71.35	20	418.0
9.73	90.27	10	154.9	37.99	62.01	20	518.6
25.49	74.51	10	271.5	46.24	53.76	20	608.8
28.65	71.35	10	296.3	54.32	45.68	20	687.0

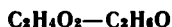
ACETALDEHYDE — ETHANOL



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B		A	B	
100	0.0	-123.3	67.0	33.0	-124.3	30.2	69.8	-126.8
90.7	9.3	-125.4	60.8	39.2	-123.5	17.9	82.1	-130.6
84.5	15.5	-127.6	51.8	48.2	-122.3	10.2	89.8	-120.6
80.9	19.1	-132	45.6	54.4	-125.3	0.0	100.0	-114.9
78.1	21.9	-126	40.6	59.4	-128			
75.2	24.8	-126	35.3	64.7	-123.2			

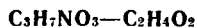


Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
0.0	100.0	80.2	53.6	46.4	+0.5	78.9	21.1	0.0
8.0	92.0	75.8	55.8	44.2	-0.6	81.8	18.2	3.0
11.5	88.5	72.5	57.9	42.1	-1.8	87.0	13.0	7.7
14.3	85.7	69.6	60.3	39.7	-2.6	89.0	11.0	8.9
16.2	83.8	68.0	62.5	37.5	-3.9	94.2	5.8	12.9
20.9	79.1	63.0	68.2	31.8	-9.2	95.3	4.7	13.4
30.0	70.0	51.9	69.9	30.1	-11.7	96.4	3.6	14.2
40.2	59.8	35.6	70.0	30.0	-11.1	97.5	2.5	14.9
51.0	49.0	8.0	71.8	28.2	-9.4	100.0	0.0	16.6
51.9	48.1	-0.2	76.7	23.3	-2.2			



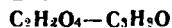
Mutual Solubility Wt.%		m.p	Mutual Solubility Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B		A	B	
26.0	74.0	-75	50.2	49.8	-30	85.2	14.8	5
27.7	72.3	-70	58.0	42.0	-20	91.5	8.5	10
33.0	67.0	-60	67.7	32.3	-10	98.0	2.0	15
38.2	61.8	-50	73.2	26.8	-5	100	0	16.6
43.7	56.3	-40	79.1	20.9	0	—	—	—

**DL-SERINE –
ACETIC ACID**



Solubility A, g/l	t
0.88	18

**OXALIC ACID –
1-PROPANOL**

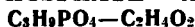


Mutual Solubility Wt.%		t
A	B	
12.2	87.8	-1.5
16.7	83.3	18.5
17.5	82.5	20.2

№ 4775

TRIMETHYL PHOSPHATE – ACETIC ACID

[1481]

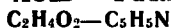


Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B		A	B	
0.0	100.0	16.6	25.0	75.0	-8.3	55.2	44.8	-87.5
0.7	99.3	16.2	29.1	70.9	-15.2	58.4	41.6	-82.8
1.1	98.9	15.8	33.6	66.4	-22.9	62.9	37.1	-72.9
4.0	96.0	13.9	37.0	63.0	-30.0	71.2	28.8	-60.6
6.6	93.4	11.9	41.2	58.8	-41.3	80.9	19.1	-55.4
8.6	91.4	10.4	46.9	53.1	-61.8	88.7	11.3	-50.4
10.3	89.7	8.7	48.6	51.4	-70.2	100.0	0.0	-46.1
13.3	86.7	5.8	51.3	48.7	-83.8			
19.2	80.8	0.7	52.9	47.1	-89.9			

№ 4776

ACETIC ACID – PYRIDINE

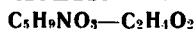
[1908]



Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B		A	B	
0.00	100.0	-43.5	50.004	49.996	-48.2	77.722	22.278	-26.9
6.345	93.655	-47.1	54.890	45.110	-49.1	80.771	19.229	-17.7
12.566	87.434	-50.6	59.594	40.406	-52.3	83.720	16.280	-9.2
18.529	81.471	-55.3	63.927	36.073	-56.7	84.773	15.227	-5.9
24.359	75.641	-62.3	66.000	34.000	-59.0	86.790	13.210	0.0
29.943	70.057	-67.5	68.202	31.798	-52.9	88.568	11.432	3.7
35.225	64.775	-57.4	72.438	27.562	-47.5	90.710	9.290	6.6
40.268	59.732	-51.6	74.790	25.210	-44.5	94.834	5.166	10.9
45.440	54.560	-48.6	76.256	23.744	-31.8	100.000	0.000	13.3

№ 4777

[1568]

**HYDROXYPROLINE –
ACETIC ACID**

Solubility A, g/l.	t
16.7	18

№ 4778

[1568]

**METHIONINE –
ACETIC ACID**

Solubility A, g/l.	t
17.5	18

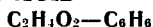
№ 4779

ACETIC ACID – NITROBENZENE

[860]



Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
100.0	0.0	16.3	60.43	39.57	52.0
93.0	7.0	16.0	44.69	55.31	57.7
88.94	11.06	27.5	41.18	58.82	58.5
79.51	20.49	41.0	30.58	69.42	62.0
70.84	29.16	47.0			



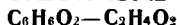
Mutual Solubility Wt. %		m.p	Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B		A	B	
0.0	100.0	5.49	41.2	58.8	-5.13	72.8	27.2	6.30
3.6	96.4	3.94	41.7	58.3	-4.90	73.4	26.6	6.45
7.3	92.7	2.32	43.6	56.4	-4.09	74.1	25.9	6.72
9.3	90.7	1.54	44.1	55.9	-3.96	76.2	23.8	6.94
13.8	86.2	-0.24	47.2	52.8	-2.64	77.0	23.0	7.16
17.7	82.3	-1.74	49.0	51.0	-1.92	78.1	21.9	7.25
22.6	77.4	-3.55	50.4	49.6	-1.42	78.4	21.6	7.28
26.0	74.0	-4.87	56.7	43.3	0.83	78.8	21.2	7.66
27.9	72.1	-5.59	59.0	41.0	1.63	80.3	19.7	8.17
28.7	71.3	-5.88	60.8	39.2	2.35	80.6	19.4	8.36
31.0	69.0	-6.76	63.9	36.1	3.35	81.8	18.2	8.80
33.0	67.0	-7.66	65.0	35.0	3.75	82.6	17.4	9.14
34.7	65.3	-8.20	65.1	34.9	3.75	83.6	16.4	9.48
34.9	65.1	-8.13	66.7	33.3	4.37	84.6	15.4	9.89
37.4	62.6	-7.04	67.6	32.4	4.50	85.9	14.1	10.51
38.2	61.8	-6.78	70.8	29.2	5.60	91.0	9.0	12.53
38.7	61.3	-6.45	72.1	27.9	6.04	96.2	3.8	14.62
40.4	59.6	-5.68	72.2	27.8	6.12	100.0	0.0	16.60

№ 4781

[1401]

1, 3 - BENZENEDIOL -

ACETIC ACID

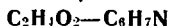


Mutual Solubility Wt. %		t
A	B	
28.12	71.88	20
40.99	59.01	40
54.36	45.64	60
70.23	29.77	80
88.65	11.35	100

№ 4782

ACETIC ACID - ANILINE

[1464]

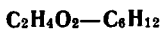


Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B		A	B	
100.0	0.0	16.6	85.5	14.5	-8.0	22.5	77.5	-10.0
97.0	3.0	15.0	84.7	15.3	-5.0	18.2	81.8	-15.6
91.5	8.5	10.0	83.3	16.7	0.0	17.5	82.5	-17.0
88.2	11.8	5.0	81.5	18.5	5.0	40.0	60.0	-20.0
85.5	14.5	0.0	79.0	21.0	10.0	22.0	78.0	-17.5
84.2	15.8	-2.4	67.0	33.0	16.7	16.5	83.5	-15.0
83.5	16.5	-5.0	46.5	53.5	10.0	11.0	89.0	-12.5
81.8	18.2	-10.0	38.7	61.3	5.0	6.5	93.5	-10.0
80.4	19.6	-15.0	32.2	67.8	0.0	2.2	97.8	-7.5
79.7	20.3	-18.2	27.0	73.0	-5.0	0.0	100.0	-6.0

№ 4783

[1046]

**ACETIC ACID —
CYCLOHEXANE**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
34.5	65.5	1.0
42.3	57.7	3.2
54.6	45.4	4.2
67.03	32.97	2.8
76.0	24.0	-2.8

№ 4784

p-TOLUIDINE — ACETIC ACID

[1242]

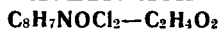


Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	43.8	72.5	27.5	48.0
14.0	86.0	36.4	77.1	22.9	44.4
22.2	77.8	32.8	79.9	20.1	40.7
28.3	71.7	30.8	82.7	17.3	35.3
31.1	68.9	29.7	85.5	14.5	26.5
32.8	67.2	27.2	87.3	12.7	18.7
33.9	66.1	32.3	88.3	11.7	16.0
39.2	60.8	37.0	89.7	10.3	6.2
45.7	54.3	41.6	90.2	9.8	7.4
51.1	48.9	45.2	90.6	9.4	8.1
57.3	42.7	47.6	91.3	8.7	9.1
63.9	36.1	49.1	91.6	8.4	9.5
66.5	33.5	49.0	92.2	7.8	10.0
67.0	33.0	49.2	92.9	7.1	11.0
67.5	32.5	49.1	94.3	5.7	12.5
69.5	30.5	48.9	100.0	0.0	16.7

№ 4785

[1472]

**2, 4 - DICHLOROACETANILIDE —
ACETIC ACID**



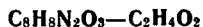
Solubility A, Wt. %	<i>t</i>
6.37	16



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B		A	B	
43.04	56.96	42.5	71.06	28.94	11.5	87.18	12.82	8.7
49.28	50.72	37.2	73.48	26.52	7.7	90.06	9.94	10.6
53.87	46.13	32.6	75.03	24.97	5.2	93.25	6.75	12.0
57.11	42.89	29.2	77.28	22.72	2.5	95.33	4.67	13.6
60.18	39.82	26.6	78.72	21.28	3.3	97.73	2.27	15.1
64.98	35.02	19.8	80.81	19.19	4.2	100.00	0.00	16.6
69.40	30.60	13.8	84.10	15.90	7.0			

№ 4787 [1472]

**p-NITROACETANILIDE –
ACETIC ACID**

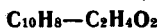


Solubility A, Wt.%	t
0.83	16

№ 4788

NAPHTHALENE – ACETIC ACID

[2024]

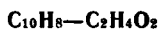


Mutual Solubility, Wt.%		t	Mutual Solubility Wt.%		t
A	B		A	B	
8.87	91.13	15.6	34.14	65.86	50.4
11.61	88.39	23.5	52.44	47.56	59.6
14.38	85.62	29.0	66.04	33.96	64.9
19.49	80.51	36.5	74.81	25.19	68.3
27.18	72.82	45.2	90.55	9.45	75.1

№ 4789

[1146]

NAPHTHALENE – METHYL FORMATE



Solubility A, Wt.%	t
25.3	25

№ 4790 N - 2 - PROPENYL - N' - PHENYLTHIOUREA - ACETIC ACID [205]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
5.02	94.98	43.0	49.54	50.46	78.1
10.50	89.50	56.5	63.57	36.43	84.8
19.89	80.11	65.5	67.83	32.17	86.7
31.04	68.96	72.5	78.74	21.26	91.0
41.16	58.84	76.7	100.0	0.0	99.0

№ 4791

CAMPHOR - ACETIC ACID

[203]

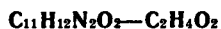


Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0	100	16.5	65	35	7.3
50	50	-0.9	67	33	16.1
55	45	-4.0	68	32	21.2
60	40	-7.1	70	30	30.1

№ 4792

[1568]

**TRYPTOPHAN -
ACETIC ACID**

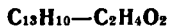


Solubility A, g/l	t
8.5	18

№ 4793

[1401]

**FLUORENE -
ACETIC ACID**



Mutual Solubility, Mol.%		t
A	B	
0.8	99.2	20
1.9	98.1	40
4.5	95.5	60
11.3	88.7	80
40.0	60.0	100

№ 4794

[887]

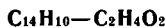
**PHENANTHRENE -
ACETIC ACID**



Mutual Solubility, Mol.%		t
A	B	
4.76	95.24	15
5.48	94.52	20
6.19	93.81	25
7.24	92.76	30

№ 4795

[1146]

PHENANTHRENE — METHYL FORMATE

Solubility A, Wt. %	<i>t</i>
20.7	25

№ 4796

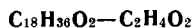
[627]

**p - p' - DIETHOXYAZOBENZENE —
ACETIC ACID**

Solubility A, g/l.	<i>t</i>
41.36	89.2
47.58	91
50.01	93
56.50	95.6
62.71	97.2
68.12	99.6

№ 4797

[1146]

**OCTADECANOIC ACID —
METHYL FORMATE**

Solubility A, Wt. %	<i>t</i>
1.28	25

№ 4798

OCTADECYLAMINE — ACETIC ACID

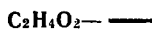
[1554]



Mutual Solubility Wt. %		m.p	Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B		A	B	
0.0	100.0	16.6	29.2	70.8	60.4	43.1	56.9	80.9
2.1	97.9	15.4	29.5	70.5	60.3	47.6	52.4	84.0
3.6	96.4	14.8	31.2	68.8	62.0	50.0	50.0	84.4
5.2	94.8	16.2	31.7	68.3	63.2	66.7	33.3	79.5
10.1	89.9	28.0	32.5	67.5	64.9	74.0	26.0	77.1
15.2	84.8	40.0	32.6	67.4	64.8	85.4	14.6	73.5
20.2	79.8	51.4	32.9	67.1	65.4	93.8	6.2	70.4
26.1	73.9	59.3	34.8	65.2	67.7	96.3	3.7	67.9
28.0	72.0	59.8	36.9	63.1	72.7	99.0	1.0	62.6

№ 4799

[806]

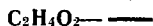
ACETIC ACID – KEROSENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
17.87	82.13	15
88.88	11.12	25

№ 4800

ACETIC ACID – PETROLEUM*

[1046]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
25.54	74.46	22.9	65.57	34.43	50.5
26.92	73.08	36.2	73.5	26.5	48.9
41.0	59.0	47.2	82.51	17.49	39.6
52.72	47.28	49.85	88.51	11.49	25.6
56.91	43.09	50.15			

№ 4801

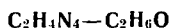
[806]

**ACETIC ACID –
COTTON SEED OIL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
35.77	64.23	25
94.69	5.31	25

№ 4802

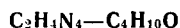
[897]

**1-CYANOQUANIDINE –
ETHANOL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.928	99.072	0
1.226	98.774	13.0
1.671	98.329	26.4
2.21	97.79	35.0
3.194	96.806	49.9
3.966	96.034	60.1

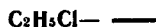
№ 4803

[897]

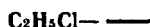
**1-CYANOQUANIDINE –
ETHYL ETHER**

Solubility A, Wt. %	<i>t</i>
0.0006	0
0.0010	13.0
0.0015	25.0
0.0026	35.3

* Petroleum fraction; b.p. 185-195°



Solubility A cc/cc B	t	p	Solubility A cc/cc B	t	p	Solubility A cc/cc B	t	p
22.0	-15	100	80.0	0	300	187.0	10	550
35.0	-15	125	95.0	0	325	1.0	20	100
52.5	-15	150	115.0	0	350	2.5	20	125
78.0	-15	175	137.5	0	375	3.0	20	150
113.0	-15	200	175.0	0	400	4.8	20	175
187.5	-15	225	2.0	10	100	6.0	20	200
17.5	-10	100	4.5	10	125	8.5	20	225
23.0	-10	125	6.5	10	150	10.0	20	250
35.0	-10	150	7.0	10	175	13.0	20	275
52.5	-10	175	12.5	10	200	17.5	20	300
75.0	-10	200	17.5	10	225	22.0	20	325
107.5	-10	225	22.5	10	250	25.0	20	350
147.5	-10	250	29.8	10	275	30.0	20	375
200.0	-10	275	37.5	10	300	35.0	20	400
6.0	0	100	45.0	10	325	40.0	20	425
6.5	0	125	55.0	10	350	46.5	20	450
7.5	0	150	64.0	10	375	52.5	20	475
13.0	0	175	75.0	10	400	59.0	20	500
22.5	0	200	85.0	10	425	74.0	20	550
37.5	0	225	99.5	10	450	90.0	20	600
50.0	0	250	112.5	10	475	112.0	20	650
63.0	0	275	130.5	10	500	137.5	20	700



t=32

Solvent		Solubility A, g/cc B (at p = 557)
Name	Formula	
Diethylene Glycol Monoethyl Ether Acetate	C ₈ H ₁₆ O ₄	0.238
Diethylene Glycol Diethyl Ether	C ₈ H ₁₈ O ₃	0.278
Tetraethylene Glycol Dimethyl Ether	C ₁₀ H ₂₂ O ₅	0.218
Tetraethylene Glycol Diethyl Ether	C ₁₂ H ₂₆ O ₅	0.212
Triethylene Glycol Dimethyl Ether	C ₈ H ₁₈ O ₄	0.170
Diethylene Glycol Monobutyl Ether Acetate	C ₁₇ H ₂₁ O ₄	0.225
Diethylene Glycol Diacetate	C ₈ H ₁₄ O ₅	0.181
1, 1, 2, 2, Tetrachloroethane	C ₂ H ₂ Cl ₄	0,308

* Kerosine from BIBI — EIBAT; d_4^{20} 0.8429, .15% aromatic hydrocarbons, octane number 42.5.

№ 4806

[1494]

**BROMOETHANE –
ETHYL ETHER**
 $C_2H_5Br - C_4H_{10}O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
86.34	13.66	—13
84.87	15.13	0
82.21	17.79	12
75.12	24.88	22.5
71.67	28.33	32

№ 4807

[1882]

**ACETAMIDE –
ETHANOL**
 $C_2H_5NO - C_2H_6O$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
18.5	81.5	0
26.0	74.0	10
33.8	66.2	20
43.0	57.0	30
53.5	46.5	40
64.5	35.5	50
76.5	23.5	60

№ 4808

[1401]

ACETAMIDE – ETHYL CARBAMATE
 $C_2H_5NO - C_3H_7NO_2$

Solubility A, Wt.%	<i>t</i>
39.65	40
64.18	60
74.73	70

№ 4809

ACETAMIDE – BENZENE
 $C_2H_5NO - C_6H_6$

[1389]

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B		A	B	
4.0	95.0	100	19.0	81.0	140	65.0	35.0	130
5.0	95.0	110	24.0	76.0	142	70.0	30.0	125
6.5	93.5	120	34.0	66.0	142.5	74.0	26.0	120
7.0	93.0	125	39.0	61.0	142	81.0	19.0	110
8.5	91.5	130	50.0	50.0	140	86.0	14.0	100
11.5	88.5	135	55.0	45.0	137.5			
14.0	86.0	137.5	59.0	41.0	135			

№ 4810

[1401]

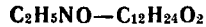
ACETAMIDE – p-TOLUIDINE
 $C_2H_5NO - C_7H_9N$

Solubility A, Wt.%	<i>t</i>
21.38	40
26.20	60
68.13	70

№ 4811

ACETAMIDE – DODECANOIC ACID

[1279]

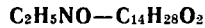


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	43.77	39.52	60.48	42.8	65.16	34.84	67.8
9.99	90.01	42.00	44.84	55.16	43.5	80.20	19.80	75.2
19.44	80.56	40.4	48.11	51.89	48.6	90.13	9.87	77.9
24.20	75.80	39.4	50.00	50.00	51.5	100.00	0.00	79.72
29.50	70.50	40.8	52.84	47.16	54.9			
34.90	65.10	42.1	60.18	39.82	63.5			

№ 4812

ACETAMIDE – TETRADECANOIC ACID

[1279]

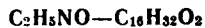


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	53.85	34.92	65.08	49.8	50.95	49.05	54.8
20.08	79.92	51.2	35.91	64.09	50.1	53.34	46.66	58.3
25.06	74.94	50.0	40.21	59.79	50.9	65.47	34.53	70.4
30.29	69.71	48.9	40.48	59.52	50.8	81.79	18.21	77.1
31.00	69.00	48.7	47.83	52.17	51.4	90.37	9.63	78.7
31.58	68.42	48.9	48.08	51.92	51.4	100.00	0.00	79.72
33.49	66.51	49.4	49.81	50.19	53.5			

№ 4813

ACETAMIDE – HEXADECANOIC ACID

[1279]

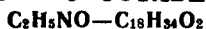


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	62.45	35.20	64.80	57.2	55.07	44.93	62.5
9.63	90.37	61.3	39.17	60.83	58.0	65.02	34.98	70.7
19.19	80.81	60.1	44.61	55.39	58.8	80.09	19.91	77.1
25.38	74.62	59.1	49.81	50.19	59.1	100.00	0.00	79.72
29.33	70.67	58.4	51.50	48.50	59.0			

№ 4814

ACETAMIDE – 9-OCTADECENOIC ACID

[1383]

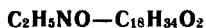


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	16.3	21.75	78.25	18.3	39.34	60.66	42.3
4.42	95.58	15.9	24.65	75.35	19.1	48.54	51.46	56.0
12.60	87.40	15.1	30.55	69.45	20.5	70.61	29.39	75.2
15.00	85.00	14.8	30.80	69.20	20.6	82.17	17.83	78.0
17.20	82.80	16.3	34.14	65.86	31.6	100.00	0.00	79.7
21.54	78.46	18.4	36.73	63.27	37.7			

№ 4815

ACETAMIDE – TRANS-9-OCTADECENOIC

[1383]

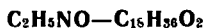


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	43.8	37.80	62.20	40.0	70.21	29.79	75.1
10.31	89.69	42.5	40.08	59.92	45.1	79.75	20.25	78.1
19.47	80.53	41.5	44.96	55.04	51.6	90.06	9.94	79.4
29.87	70.13	40.2	46.08	53.92	53.6	100.00	0.00	79.7
34.20	65.80	39.6	50.59	49.41	59.9			
36.01	63.99	39.9	60.26	39.74	69.7			

№ 4816

ACETAMIDE – OCTADECANOIC ACID

[1279]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B		A	B	
0.00	100.00	69.29	38.40	61.60	64.0	54.65	45.35	67.4
9.91	90.09	68.2	40.71	59.29	64.5	64.56	35.44	73.7
19.72	80.28	66.9	44.77	55.23	64.7	90.10	9.90	79.5
24.88	75.12	66.2	49.26	50.74	65.4	100.00	0.00	79.72
34.84	65.16	64.7	52.09	47.91	65.4			

№ 4817 [1589]

GLYCINE – ETHANOL
 $C_2H_5NO_2 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.06	20

№ 4818 [585]

GLYCINE – PYRIDINE
 $C_2H_5NO_2 - C_5H_5N$

Solubility A, Wt. %	<i>t</i>
0.606	20

№ 4819 [1569]

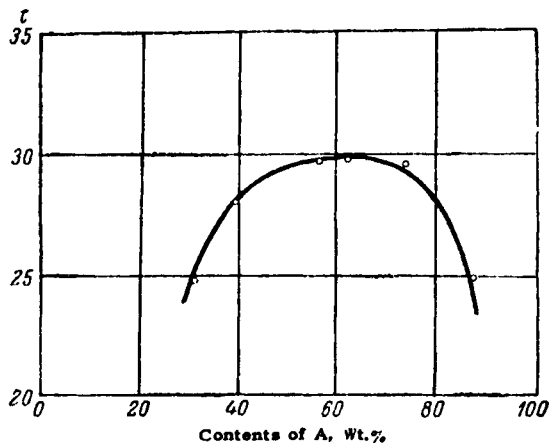
GLYCINE – QUINOLINE
 $C_2H_5NO_2 - C_7H_9N$

Solubility A, Wt. %	<i>t</i>
0.07	20

№ 4820

2, 2, 4 - TRIMETHYLPENTANE – NITROETHANE
 $C_8H_{18} - C_2H_5NO_2$

[2002]



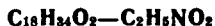
№ 4821

9, 12 - OCTADECADIENOIC ACID – NITROETHANE
 $C_{18}H_{32}O_2 - C_2H_5NO_2$

[932]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
<0.1	>99.9	-40	25.5	74.5	0
0.4	99.6	-30	Completely miscible		10
2.0	98.0	-20			
7.7	92.3	-10			

9 - OCTADECENOIC ACID – NITROETHANE



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
0.2	99.8	—40	8.0	92.0	10
0.8	99.2	—30	12.5	87.5	20
1.3	98.7	—20	Completely miscible		>31.7
2.2	97.8	—10			
3.3	96.7	0			

GLYCINE – VARIOUS SOLVENTS



t = 25

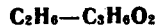
Solvent		Solubility A, g/l.	d_4^{25}
Name	Formula		
Water	H ₂ O	216.7	1.0831
Formamide	CH ₃ ON	6.293	1.13306
Methanol	CH ₄ O	0.320	0.78696
Ethanol	C ₂ H ₆ O	0.293	0.7851
1-Butanol	C ₄ H ₁₀ O	0.0072	0.80674
Acetone	C ₃ H ₆ O	0.0023	0.78566

ETHANE – ACETONE



Solubility A cc/cc B	<i>t</i>
4.202	0
3.761	10
3.389	20
3.225	25
3.067	30
2.790	40

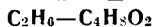
ETHANE – METHYL ACETATE



Solubility A cc/cc B	<i>t</i>
4.195	0
3.780	10
3.414	20
3.246	25
3.106	30
2.825	40

№ 4826

[1662]

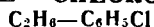
ETHANE – ETHYL ACETATE

Solubility A cc/cc B	<i>t</i>	<i>p</i>
3.06	30	760

№ 4827

ETHANE – CHLOROBENZENE

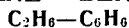
[964]



Solubility A cc/cc B	<i>t</i>	Solubility A cc/cc B	<i>t</i>
4.900	0	3.013	40
4.270	10	2.745	50
3.750	20	2.509	60
3.534	25	2.312	70
3.340	30	2.146	80

№ 4828

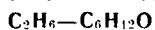
[964]

ETHANE – BENZENE

Solubility A cc/cc B	<i>t</i>
4.885	10
4.360	20
4.120	25
3.921	30
3.552	40
3.255	50

№ 4829

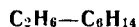
[470]

**ETHANE –
CYCLOHEXANOL**

Solubility A cc/cc B	<i>t</i>
0.7115	26

№ 4830

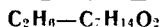
[1662]

ETHANE – HEXANE

Solubility A cc/cc B	<i>t</i>	<i>p</i>
3.1842	30	760

№ 4831

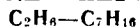
[1662]

ETHANE – PENTYL ACETATE

Solubility A cc/cc B	<i>t</i>	<i>p</i>
3.3891	30	760

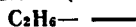
№ 4832

[1662]

ETHANE – HEPTANE

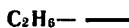
Solubility A cc/cc B	<i>t</i>	<i>p</i>
4.42	30	760

ETHANE – HYDROCARBON BLENDS (CRYSTAL OIL, MOL.WT.337) *



Solubility A, Wt. %	<i>t</i>	<i>P</i> abs. at	Solubility A, Wt. %	<i>t</i>	<i>P</i> abs. at
3.19	21.1	9.4	3.19	71.1	16.7
5.79	21.1	13.9	5.79	71.1	27.2
16.43	21.1	28.0	16.43	71.1	63.4
26.32	21.1	34.4	26.32	71.1	89.1
49.82	21.1	38.2	49.82	71.1	137.4
3.19	37.8	11.7	3.19	87.8	19.4
5.79	37.8	17.9	5.79	87.8	32.4
16.43	37.8	38.6	16.43	87.8	77.5
26.32	37.8	48.7	26.32	87.8	110.6
49.82	37.8	77.6	49.82	87.8	161.3
3.19	54.4	14.1	3.19	104.4	22.4
5.79	54.4	22.4	5.79	104.4	38.1
16.43	54.4	50.0	16.43	104.4	91.8
26.32	54.4	67.2	26.32	104.4	130.6
49.82	54.4	109.3	49.82	104.4	182.9

ETHANE – VARIOUS SOLVENTS



Solvent		Solubility A cc/cc B	<i>t</i>
Name	Formula		
Methanol 99%	CH ₄ O	2.0235	22.5
" "	"	1.8817	30.1
" "	"	1.7304	42.5
Ethanol 99.8%	C ₂ H ₆ O	2.3344	22.0
" "	"	2.2151	30.0
" "	"	2.0657	40.0
Hexane	C ₆ H ₁₄	3.3508	22.1
"	"	3.1842	30.0
"	"	2.8812	55.0
Heptane	C ₇ H ₁₆	4.4200	30
"	"	4.2632	40
Ethyl Acetate	C ₄ H ₈ O ₂	3.0600	22
" "	"	3.0601	30
" "	"	3.003	40
1-Pentanol	C ₇ H ₁₄ O ₂	3.5761	22
"	"	3.3891	30
"	"	2.8909	50

* Hydrocarbon blend known as crystalline or heavy hydrocarbon oil, colorless fluid; viscosity 284 millipoise at 37.8°, specific gravity 0.8663 at 37.8° and vapor pressure 0.005 mm at room temperature.

№ 4835

[1978]

**CHLORALFORMAMIDE —
ETHANOL (95%)**
 $C_2H_3NO_2Cl_3 - C_2H_6O$

Solubility A, Wt.%	<i>t</i>
43.5	25

№ 4836

[175]

**MALONIC ACID —
ETHANOL**
 $C_3H_4O_4 - C_2H_6O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
30.0	70.0	-18.5
30.7	69.3	-15
35.3	64.7	0
40.1	59.9	19
41.3	58.7	19.5

№ 4837

ETHANOL — GLYCEROL TRINITRATE
 $C_2H_6O - C_3H_5N_3O_9$

[530]

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B		A	B	
3.2	96.8	15	9.7	90.3	40	68.2	31.8	28
3.9	96.1	20	58.6	41.4	40	70.0	30.0	25
4.85	95.15	25	63.3	36.7	35	72.7	27.3	20
5.9	94.1	30	65.7	34.3	32	75.0	25.0	15
7.4	92.6	35	67.1	32.9	30			

№ 4838

ETHANOL — ACETONE
 $C_2H_6O - C_3H_6O$

[1702]

Mutual Solubility, Wt.%		m.p.	Mutual Solubility Wt.%		m.p.
A	B		A	B	
0	100	-95.6	75.0	25.0	-119.1
13.5	86.5	-100.0	79.5	20.5	-118.7
25.8	74.2	-102.1	90.4	9.6	-116.6
39.7	60.3	-104.8	100	0	-114.1
56.5	43.5	-108.7			

№ 4839

METHOXYMETHANE — ACETONE

[964]

 $t=25$

Solubility A, Mol. %	P	Solubility A, Mol. %	P
0.000	229.2	0.0933	650.8
0.0179	311.7	0.1183	762.3
0.0378	403.1	0.1577	939.1
0.0701	548.2	0.1893	1075.0

№ 4840

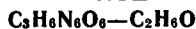
[964]

**METHOXYMETHANE —
METHYL ACETATE** $t=25$

Solubility A, Mol. %	P
0.000	213.4
0.0175	239.2
0.0508	440.6
0.0817	576.0
0.1117	704.4
0.1365	812.3
0.1625	923.5
0.1950	1039.7

№ 4841

[1976]

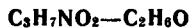
**TRINITROTRIMETHYLENETRIAMINE —
ETHANOL**

Solubility A, Wt. %	t
0.040	0
0.070	10
0.105	20
0.155	30
0.235	40
0.370	50
0.575	60
0.880	70
1.180	78.1

№ 4842

ETHYL CARBAMATE — ETHANOL

[1862]

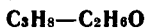


Mutual Solubility, Wt. %		t	d_4^t	Mutual Solubility, Wt. %		t	d_4^t
A	B			A	B		
43.18	56.82	0	0.891	73.68	26.32	25	0.985
54.55	45.45	10	0.930	81.13	18.87	30	1.001
60.00	40.00	15	0.950	92.86	7.14	40	1.035
66.66	33.34	20	0.968				

№ 4843

PROPANE — ETHANOL

[1142]



Solubility A, Mol. %	t	P	Solubility A, Mol. %	t	P
0.0	0	11.8	1.434	25	579.8
1.497	0	309.8	1.941	25	755.3
2.706	0	532.0	0.0	50	221.0
4.054	0	762.2	0.320	50	412.0
0.0	25	59.0	0.634	50	596.4
0.509	25	248.3	0.924	50	764.4
1.003	25	427.5			

№ 4844

[1569]

**ETHYLUREA -
ETHANOL**
 $C_3H_8N_2O - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
44.43	20

№ 4845

[132]

ETHANOL - SUCCINONITRILE
 $C_2H_6O - C_4H_6N_2$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
25.7	74.3	18.5	70.9	29.1	28.5
31.8	68.2	24.5	80.3	19.7	23.5
48.2	51.8	29.5	87.1	12.9	11.5
60.1	39.9	30.0			

№ 4846

[1862]

SUCCINIMIDE - ETHANOL
 $C_4H_5NO_2 - C_2H_6O$

Mutual Solubility Wt. %		<i>t</i>	d_4^t	Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B			A	B		
2.210	97.790	0	0.815	7.749	92.251	30	0.804
3.288	96.712	10	0.809	11.82	88.18	40	0.809
4.943	95.057	20	0.806	17.36	82.64	50	0.816
6.191	93.809	25	0.805	26.47	73.53	60	0.835

№ 4847

[174]

**SUCCINIC ACID -
ETHANOL**
 $C_4H_6O_4 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
4.82	-1
8.67	21.5
13.04	39

№ 4848

[2108]

**SUCCINIC ACID -
ETHANOL**
 $C_4H_6O_4 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
9.13	20
10.63	30

№ 4849

[703]

**TARTARIC ACID —
ETHANOL (93.8%)
C₄H₆O₆—C₂H₅O**

Solubility A, Wt. %		<i>t</i>
<i>d</i> -Acid	Racemic Acid	
20.11	1.966	0
23.46	2.397	15
30.09	4.771	25
38.16	5.926	40

№ 4850

[1866]

**2 - METHYLPROPYLENE —
ETHANOL
C₄H₈—C₂H₅O**

Solubility A cc/cc B	<i>t</i>
44.8	19

№ 4851

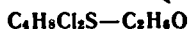
[1866]

**2 - BUTYLENE —
ETHANOL
C₄H₈—C₂H₅O**

<i>t</i>	Solubility A cc/cc B	<i>t</i>
	51.3	19

№ 4852

β, β' -DICHLOROETHYL SULFIDE — ETHANOL (92.5%) [1943]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
21.64	78.36	5.1	65.27	34.73	34.4
26.20	73.80	12.8	68.67	31.33	35.2
30.26	69.74	17.0	72.45	27.55	35.8
33.91	66.09	21.7	75.22	24.78	36.7
38.70	61.30	25.6	78.20	21.80	37.6
42.80	57.20	28.3	81.42	18.58	37.9
46.47	53.53	29.9	84.93	15.07	38.6
49.66	50.34	30.6	86.80	13.20	38.5
52.29	47.71	31.4	88.75	11.25	38.4
54.45	45.55	31.0	90.80	9.20	37.8
56.76	43.24	32.5	92.93	7.07	35.7
59.37	40.63	33.0	95.18	4.82	30.9
62.18	37.82	33.6	97.53	2.47	19.9

№ 4853

 β, β' -DICHLOROETHYL SULFIDE - ETHANOL

[1943]

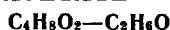


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
44.83	55.17	5.6	75.76	24.24	14.8
47.45	52.55	7.5	80.25	19.75	15.5
50.39	49.61	9.1	83.12	16.88	15.6
53.73	46.27	10.6	87.13	12.87	15.3
57.52	42.48	11.8	91.04	8.96	14.8
61.91	38.09	12.2	93.13	6.87	14.5
67.00	33.00	13.6	95.31	4.69	13.6
71.75	28.25	14.2			

№ 4854

ETHYL ACETATE - ETHANOL

[1702]

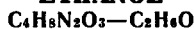


Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.0	100.0	-114.1	53.2	46.8	-92.0
12.4	87.6	-115.5	71.6	28.4	-90.0
28.5	71.5	-110.0	88.6	11.4	-87.0
41.5	58.5	-96.5	100.0	0.0	-83.6

№ 4855

ASPARAGINE - [1569]

ETHANOL

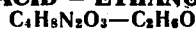


Solubility A, Wt. %	<i>t</i>
0.02	20

№ 4856

3-UREIDOPROPANOIC [1275]

ACID - ETHANOL

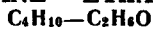


Solubility A, g/l.	<i>t</i>	d_4^{25}
2.24	25	0.78692

№ 4857

BUTANE - ETHANOL

[1141]



Solubility A, Mol. %	<i>t</i>	<i>P</i>	Solubility A, Mol. %	<i>t</i>	<i>P</i>	Solubility A, Mol. %	<i>t</i>	<i>P</i>
0.0	25	59.0	7.092	25	739.5	0.0	50	221.0
1.517	25	238.0	0.0	35	103.1	0.521	50	337.8
2.334	25	325.8	0.830	35	233.0	1.218	50	487.5
2.999	25	393.3	1.484	35	330.1	1.716	50	590.6
3.440	25	436.8	2.198	35	430.5	2.442	50	733.5
5.144	25	589.9	4.76	35	719.3			

№ 4858

2-METHYLPROPANE – ETHANOL

[1142]



Solubility A, Mol. %	<i>t</i>	<i>p</i>	Solubility A, Mol. %	<i>t</i>	<i>p</i>
0.0	10	23.4	0.955	35	313.1
3.528	10	389.7	1.643	35	455.2
5.443	10	549.6	2.391	35	602.4
0.0	25	59.0	3.241	35	70.4
0.974	25	226.9	0.0	50	221.0
1.454	25	305.8	0.312	50	317.3
2.316	25	439.5	0.680	50	429.2
4.368	25	725.4	1.064	50	542.3
0.0	35	103.1	1.828	50	758.7

№ 4859

ETHANOL – ETHYL ETHER

[1166]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.0	100.0	-116.32	49.23	50.77	-123.09
2.09	97.91	-117.03	55.44	44.56	-124.37
4.02	95.98	-117.32	57.85	42.15	-125.05
7.43	92.57	-117.74	59.97	40.03	-124.38
13.55	86.45	-118.32	64.48	35.52	-123.32
16.53	83.47	-118.64	69.22	30.78	-122.32
22.13	77.87	-119.20	72.08	27.92	-121.51
25.18	74.82	-119.37	80.28	19.72	-119.53
32.81	67.19	-120.30	85.24	14.76	-118.32
39.29	60.71	-121.32	87.17	12.83	-117.67
45.94	54.06	-122.48	100.0	0.0	-114.5

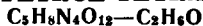
№ 4860

URIC ACID –

[1569]

ETHANOL

Solubility A, Wt. %	<i>t</i>
0.67	20

№ 4861 **1, 2, 3, 4-PENTANETETROL TETRANITRATE – ETHANOL** [1977]

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.070	0	0.700	50
0.085	10	1.191	60
0.195	20	2.177	70
0.274	30	3.656	78.4
0.413	40		

№ 4862

[1624]

**1, 2, 3, 4 - PENTANETETROL
TETRANITRATE - ETHANOL**

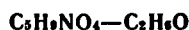


Solubility A, wt. %	<i>t</i>
0.125	20
0.212	30
0.377	40
0.653	50
1.182	60

№ 4863

[1526]

**d - GLUTAMIC ACID -
ETHANOL**

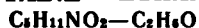


Solubility A, g/l.	<i>t</i>
0.054	25

№ 4864

BETAINE - ETHANOL

[1889]

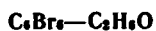


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
4.76	95.24	-10	11.50	88.50	40
5.66	94.34	0	13.79	86.21	50
6.54	93.46	10	15.61	84.39	60
7.83	92.17	20	18.03	81.97	70
9.91	90.09	30	20.00	80.00	80

№ 4865

[1772]

**HEXABROMOBENZENE -
ETHANOL**

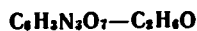


Solubility A, g/l.	<i>t</i>
0.068	20

№ 4866

[307]

**PICRIC ACID -
ETHANOL**



Solubility A, Wt. %	<i>t</i>	d_4^{15}
5.53	12.3	—
5.92	14.8	0.8255

№ 4867

[175]

**PICRIC ACID –
ETHANOL**
 $C_6H_3N_3O_7 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
7.72	22

№ 4868

[409]

**1, 2, 4 - TRINITROBENZENE –
ETHANOL**
 $C_6H_3N_3O_7 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
5.14	15.5

№ 4869

[1751]

**p - DIBROMOBENZENE –
ETHANOL**
 $C_6H_4Br_2 - C_2H_6O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
1.7	98.3	40
28.6	71.4	60
72.0	28.0	80

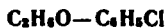
№ 4870

p - DIBROMOBENZENE – ETHANOL
 $C_6H_4Br_2 - C_2H_6O$

[1401]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
14.0	86.0	30	57.6	42.4	70
19.0	81.0	40	80.5	19.5	75
26.0	74.0	50	94.4	5.6	80
38.0	62.0	60			

№ 4871 METHOXYMETHANE – CHLOROBENZENE [964]

 $t = 25$

Solubility A, Mol. %	<i>P</i>	Solubility A, Mol. %	<i>P</i>
0.000	11.6	0.1278	550.8
0.062	120.4	0.1855	795.3
0.072	310.5	0.2214	957.9
0.097	423.3	0.2471	1072.1

№ 4872

[162]

**3-PYRIDINECARBOXYLIC
ACID - ETHANOL***
 $C_6H_5NO_2 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.57	0
0.92	15
2.10	38
4.20	61
7.06	78

№ 4873

[644]

**METHOXYMETHANE -
NITROBENZENE**
 $C_2H_6O - C_6H_5NO_2$
t=25

Solubility A, Wt. %	<i>p</i>
0.000	0.5
0.437	57.6
1.075	140.7
2.125	270.0
3.363	422.3

№ 4874

m-NITROPHENOL - ETHANOL
 $C_6H_5NO_2 - C_2H_6O$

[464]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
53.87	46.13	1.0	77.54	22.46	50.7
58.94	41.06	11.0	80.87	19.13	57.5
64.75	35.25	23.4	84.71	15.29	65.5
69.03	30.97	30.5	89.49	10.51	77.2
75.20	24.80	45.5	91.72	8.28	85.0

№ 4875

o-NITROPHENOL - ETHANOL
 $C_6H_5NO_2 - C_2H_6O$

[464]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
9.22	90.78	0.0	41.03	58.97	30.2
11.50	88.50	6.7	66.67	33.33	34.3
15.04	84.96	12.4	86.68	13.32	37.3
18.09	81.91	17.3	91.22	8.78	41.3
25.54	74.46	23.1			

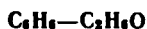
№ 4876

p-NITROPHENOL - ETHANOL
 $C_6H_5NO_2 - C_2H_6O$

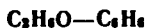
[464]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
53.65	46.35	0.0	77.16	22.84	52.7
57.23	42.77	10.0	80.60	19.40	62.7
61.70	38.30	18.5	84.50	15.50	71.2
65.96	34.04	26.1	88.89	11.11	81.1
71.01	28.99	38.6	91.05	8.95	89.8
73.61	26.39	45.2			

* B 96%

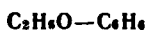


Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0	100	-113.9	29.8	70.2	-40
8	92	-100	37	63	-30
10	90	-90	45.7	54.3	-20
12	88	-80	57.6	42.4	-10
15	85	-70	85	15	0
19.3	80.7	-60	93	7	1
24.1	75.9	-50	100	0	5.5



$$t = 25$$

Solubility A, Mol. %	<i>p</i>	Solubility A, Mol. %	<i>p</i>
0.000	93.7	0.1229	634.8
0.0230	196.9	0.15.9	761.4
0.0632	372.6	0.1884	913.0
0.0932	503.0	0.2100	1006.7



Solubility A, Mol. %	<i>t</i>	<i>p</i>	Solubility A, Mol. %	<i>t</i>	<i>p</i>
3.39	10	100	2.27	23	100
3.27	11	100	2.21	24	100
3.16	12	100	2.16	25	100
3.09	13	100	2.09	26	100
2.99	14	100	2.04	27	100
2.88	15	100	1.97	28	100
2.82	16	100	1.93	29	100
2.72	17	100	1.86	30	100
2.63	18	100	1.82	31	100
2.57	19	100	1.78	32	100
2.48	20	100	6.8	10	200
2.40	21	100	6.6	11	200
2.34	22	200	6.5	12	200

Solubility A, Mol.%	<i>t</i>	<i>p</i>	Solubility A, Mol.%	<i>t</i>	<i>p</i>
6.2	13	200	10.5	19	400
6.0	14	200	10.1	20	400
5.82	15	200	9.8	21	400
5.69	16	200	9.7	22	400
5.50	17	200	9.2	23	400
5.39	18	200	8.9	24	400
5.19	19	200	7.4	25	400
5.01	20	200	8.4	26	400
4.90	21	200	8.2	27	400
4.73	22	200	7.9	28	400
4.62	23	200	7.8	29	400
4.47	24	200	7.6	30	400
4.37	25	200	7.3	31	400
4.22	26	200	7.2	32	400
4.12	27	200	17.6	10	500
4.03	28	200	16.8	11	500
3.89	29	200	16.4	12	500
3.80	30	200	15.8	13	500
3.72	31	200	15.3	14	500
3.36	32	200	14.8	15	500
10.4	10	300	14.3	16	500
9.9	11	300	14.0	17	500
9.7	12	300	13.7	18	500
9.4	13	300	13.0	19	500
9.1	14	300	12.6	20	500
8.8	15	300	12.3	21	500
8.5	16	300	11.9	22	500
8.3	17	300	11.5	23	500
8.0	18	300	11.2	24	500
7.9	19	300	10.8	25	500
7.6	20	300	10.7	26	500
7.3	21	300	10.2	27	500
7.2	22	300	10.0	28	500
6.9	23	300	9.7	29	500
6.8	24	300	9.4	30	500
6.6	25	300	9.2	31	500
6.4	26	300	8.9	32	500
6.2	27	300	20.7	10	600
6.0	28	300	20.0	11	600
5.89	29	300	19.3	12	600
5.69	30	300	18.7	13	600
5.56	31	300	18.2	14	600
15.43	32	300	17.6	15	600
13.8	10	400	17.0	16	600
13.3	11	400	16.6	17	600
13.0	12	400	16.0	18	600
12.3	13	400	15.7	19	600
12.2	14	400	15.1	20	600
11.7	15	400	14.6	21	600
11.4	16	400	14.3	22	600
11.2	17	400	13.8	23	600
10.7	18	400	13.5	24	600

Solubility A, Mol.%	<i>t</i>	<i>P</i>	Solubility A, Mol.%	<i>t</i>	<i>P</i>
13.2	25	600	15.7	29	800
12.7	26	600	15.1	30	800
12.5	27	600	14.8	31	800
12.1	28	600	14.5	32	800
11.9	29	600	31.6	10	900
11.5	30	600	30.2	11	900
11.4	31	600	29.5	12	900
11.0	32	600	28.5	13	900
24.0	10	700	27.5	14	900
23.2	11	700	26.6	15	900
22.7	12	700	25.7	16	900
21.9	13	700	25.1	17	900
21.1	14	700	24.3	18	900
20.7	15	700	23.7	19	900
20.0	16	700	22.9	20	900
19.3	17	700	22.1	21	900
18.8	18	700	21.6	22	900
18.2	19	700	20.9	23	900
17.9	20	700	20.4	24	900
17.2	21	700	19.7	25	900
16.8	22	700	19.3	26	900
16.2	23	700	18.6	27	900
15.9	24	700	18.1	28	900
15.5	25	700	17.6	29	900
15.0	26	700	17.2	30	900
14.6	27	700	16.6	31	900
14.1	28	700	16.2	32	900
13.8	29	700	33.5	10	950
13.5	30	700	32.4	11	950
13.2	31	700	31.6	12	950
12.9	32	700	30.2	13	950
28.2	10	800	29.2	14	950
27.2	11	800	28.5	15	950
26.3	12	800	27.5	16	950
25.4	13	800	26.6	17	950
24.6	14	800	25.7	18	950
24.0	15	800	25.1	19	950
23.2	16	800	24.3	20	950
22.4	17	800	23.4	21	950
21.6	18	800	22.7	22	950
21.1	19	800	21.9	23	950
20.4	20	800	21.4	24	950
19.7	21	800	20.9	25	950
19.1	22	800	20.2	26	950
18.6	23	800	19.5	27	950
18.0	24	800	19.1	28	950
17.6	25	800	18.4	29	950
17.0	26	800	18.0	30	950
16.4	27	800	17.4	31	950
16.0	28	800	17.0	32	950

№ 4880

ETHANOL – PHENOL

[1525]



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
0.00	100.0	39.9	39.91	69.09	2.6
7.29	92.71	32.55	35.00	65.00	-4.7
16.25	83.75	22.8	41.00	59.00	-15.2
19.38	80.62	17.1	49.23	50.77	-30.0
25.09	74.91	9.9			

№ 4881

1, 4 - BENZENEDIOL – ETHANOL

[2013]

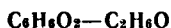


Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
17.25	82.75	2)	37.70	62.30	100
19.40	80.60	30	41.83	58.17	110
21.58	78.42	40	47.01	52.99	120
23.89	76.11	50	53.60	46.40	130
25.08	73.92	60	61.75	33.25	140
28.57	71.43	70	71.56	28.44	150
31.16	68.84	80	82.79	17.21	160
34.25	65.75	90	100.00	0.00	172

№ 4882

1, 2 - BENZENEDIOL – ETHANOL

[2013]



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
36.40	63.60	20	60.38	39.62	70
39.80	60.20	30	68.20	31.80	80
43.95	56.05	40	80.09	19.91	90
48.92	51.08	50	93.55	6.45	100
54.37	45.63	60	100.00	0.0	104.5

№ 4883

1, 3 - BENZENEDIOL - ETHANOL

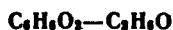
[1862]



Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B		
55.55	44.45	0	1.033
58.50	41.50	10	1.036
60.78	39.22	20	1.041
61.83	38.17	25	1.045
62.06	37.94	30	1.048
65.03	34.97	40	1.056
67.32	32.68	50	1.065
70.15	29.85	60	1.075
75.00	25.00	70	1.087
76.74	23.26	80	1.092

№ 4884

[1569]

**1, 3 - BENZENEDIOL -
ETHANOL**

Solubility A, Wt. %	<i>t</i>
70.2	20

№ 4885

1, 3 - BENZENEDIOL - ETHANOL

[2013]



Mutual Solubility, Mol. %		m.p.
A	B	
39.34	60.66	20
41.91	58.09	30
44.79	55.21	40
48.40	51.60	50
53.10	46.90	60
58.34	41.66	70
64.69	35.31	80
74.65	25.35	90
87.38	12.62	100
100.00	0.00	109.4

№ 4886

[1978]

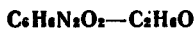
**1, 2, 3 - BENZENETRIOL -
ETHANOL**
C₆H₆O₃ - C₂H₆O

Solubility A, Wt.%	<i>t</i>
50.0	25

№ 4887

m - NITROANILINE - ETHANOL

[519]



Mutual Solubility, Mol.%		<i>t</i>
A	B	
2.4	97.6	25
2.4	97.6	30
4.1	95.9	40
5.6	94.4	50
8.5	91.5	60
14.1	85.9	70
25.8	74.2	80
49.5	50.5	90
73.0	27.0	100
94.9	5.1	110

№ 4888

[519]

**o - NITROANILINE -
ETHANOL**

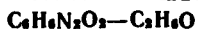


Mutual Solubility, Mol.%		<i>t</i>
A	B	
8.5	91.5	25
10.4	89.6	30
18.7	81.3	40
40.3	59.7	50
74.0	26.0	60

№ 4889

D-NITROANILINE – ETHANOL

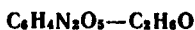
[519]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
3.4	96.6	60	7.9	92.1	100
3.8	96.2	70	12.7	87.3	110
4.8	95.2	80	32.4	67.6	120
5.7	94.3	90	85.6	14.4	140

№ 4890

[410]

3, 6-DINITROPHENOL – ETHANOL

Solubility A, Wt. %	<i>t</i>
3.75	19.5

№ 4891

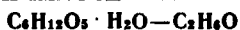
[1975]

d-MANNONIC LACTONE – ETHANOL

d-Mannonic- γ -lactone		d-Mannonic- γ -lactone	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.207	44.1	0.0853	42.0
0.249	48.3	0.124	49.8
0.355	55.9	0.144	53.6
0.425	60.4	0.192	60.4
0.516	64.5	0.278	68.2

№ 4892

[1975]

l-RHAMNOSE – ETHANOL

Mutual Solubility, Mol. %		<i>t</i>
A	B	
7.35	92.65	42.0
11.19	88.81	49.3
14.68	85.32	53.6
17.70	82.30	56.1
20.70	79.30	59.2
23.49	76.51	61.1

№ 4893

[415]

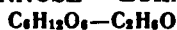
HEXOSE – ETHANOL $t = 17$

A	Solubility A, g/l.
<i>d</i> - Sorbose	10.2
<i>l</i> - Sorbose	10.0
<i>l</i> - Gulose	10.4

№ 4894

d-MANNOSE – ETHANOL

[1975]



<i>α</i> - <i>d</i> -mannose		<i>β</i> - <i>d</i> -mannose	
Solubility Mol. %	<i>t</i>	Solubility A,	<i>t</i>
0.351	43.3	0.336	48.2
0.488	52.0	0.392	51.8
0.624	57.9	0.453	55.3
0.635	58.3	0.565	61.2
0.690	61.1	0.692	65.4
0.887	67.6	0.860	71.4

№ 4895

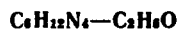
[1275]

**5 - UREIDOPENTANOIC
ACID – ETHANOL**

Solubility A, g/l.	<i>t</i>	d_4^{25}
1.219	25	0.78622

№ 4896

[588]

**HEXAMETHYLENETETRAMINE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
3.12	12

№ 4897

[1471]

HEXANE – ETHANOL

(92%)



Solubility A, Wt. %	<i>t</i>
46.4	15

№ 4898

d - MANNITOL – ETHANOL

[1975]



Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0293	53.6	0.0989	77.2
0.0463	62.0	0.122	80.3
0.0634	69.6	0.166	85.2
0.0768	73.0	0.254	92.5

№ 4899

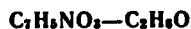
[1757]

**PENTABROMOTOLUENE –
ETHANOL (96%)**

Solubility A, g/l.	<i>t</i>
0.104	20

№ 4900

[1569]

**m - NITROBENZALDEHYDE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
18.13	20

№ 4901

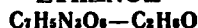
[1978]

**SACCHARINE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
3.84	25

№ 4902

[531]

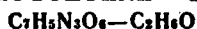
**2, 4, 6 - TRINITROLOLUENE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
1.58	22
9.1	58

№ 4903

2, 4, 6 - TRINITROTOLUENE – ETHANOL (95%)

[599, 1930]

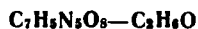


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.65	99.35	0	2.84	97.16	40
0.74	99.26	5	3.57	96.43	45
0.84	99.16	10	4.41	95.59	50
1.06	98.94	15	5.73	94.27	55
1.21	98.79	20	7.66	92.34	60
1.46	98.54	25	10.23	89.77	65
1.77	98.23	30	13.16	86.84	70
2.22	97.78	35	16.32	83.68	75

№ 4904

TETRYL – ETHANOL (95%)

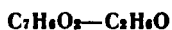
[599, 1930]



Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>	Solubility A, Wt.%	<i>t</i>
0.319	0	0.754	30	2.572	60
0.365	5	0.902	35	3.223	65
0.423	10	1.108	40	4.058	70
0.494	15	1.361	45	5.060	75
0.560	20	1.691	50		
0.616	25	2.085	55		

№ 4905

[367]

**BENZOIC ACID –
ETHANOL (90%)**

Solubility A, Wt.%	<i>t</i>
29.39	15

№ 4906

[175]

BENZOIC ACID – ETHANOL

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
20.3	79.7	—18	34.4	65.6	19.2
21.2	78.8	—13	35.9	64.1	23
28.8	71.2	3			

№ 4907

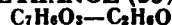
[2108]

**BENZOIC ACID –
ETHANOL**

Solubility A, Wt.%	<i>t</i>
34.4	20
39.7	30

№ 4908

[1809]

**m - HYDROXYBENZOIC ACID –
ETHANOL (99%)**

Mutual Solubility Wt.%		<i>t</i>
A	B	
39.6	60.4	65
61.3	38.7	132
81.7	18.3	160

№ 4909

[1809]

**o-HYDROXYBENZOIC ACID –
ETHANOL (99%)**
 $C_7H_6O_3 - C_2H_6O$

Mutual Solubility Wt. %		<i>t</i>
A	B	
40.6	59.4	41.0
60.4	39.6	85.2
81.2	18.8	125.2

№ 4910

[1809]

**p-HYDROXYBENZOIC ACID –
ETHANOL (99%)**
 $C_7H_6O_3 - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
38.75	61.25	67
60.9	39.1	136.5
82.9	17.1	184.0

№ 4911

[1772]

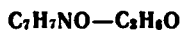
**AMINONITROBENZOIC ACIDS –
ETHANOL (90%)**
 $C_7H_6N_2O_4 - C_2H_6O$

Solubility A, g/l.			<i>t</i>
O - Acid	m - Acid	p - Acid	
81.3	17.9	84.0	3
107.0	22.0	113.0	9.6

№ 4912

BENZAMIDE – ETHANOL

[1862]



Mutual Solubility, Wt. %		<i>t</i>	d_4^t	Mutual Solubility Wt. %		<i>t</i>	d_4^t
A	B			A	B		
7.71	92.29	0	0.833	24.81	75.19	40	0.848
10.31	89.69	10	0.832	30.31	69.69	50	0.862
13.79	86.21	20	0.833	35.28	64.72	60	0.881
15.97	84.03	25	0.835	39.94	60.06	70	0.913
18.70	81.30	30	0.838				

№ 4913

[1569]

BENZAMIDE – ETHANOL
 $C_7H_7NO - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
14.55	20

№ 4914

m - AMINO BENZOIC ACID - ETHANOL

[1189]

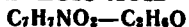


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
1.52	98.48	25	12.7	87.3	100
1.8	98.2	30	19.7	80.3	110
2.5	97.5	40	27.0	73.0	120
3.2	96.8	50	37.3	62.7	130
4.0	96.0	60	47.4	52.6	140
4.6	95.4	70	59.0	41.0	150
6.0	94.0	80	72.8	27.2	160
8.4	91.6	90	88.0	12.0	170

№ 4915

o - AMINO BENZOIC ACID - ETHANOL

[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
7.75	92.25	25	35.2	64.8	90
9.0	91.0	30	43.8	56.2	100
11.6	88.4	40	54.4	45.6	110
14.6	85.4	50	67.0	33.0	120
18.5	81.5	60	79.6	20.4	130
23.0	77.0	70	92.3	7.7	140
28.4	71.6	80			

№ 4916

p - AMINO BENZOIC ACID - ETHANOL

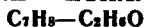
[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.97	95.03	25	27.3	72.7	110
5.4	94.6	30	33.1	66.9	120
6.5	93.5	40	40.4	59.6	130
7.8	92.2	50	49.7	50.3	140
9.5	90.5	60	59.9	40.1	150
11.8	88.2	70	70.8	29.2	160
14.8	85.2	80	81.6	18.4	170
18.4	81.6	90	92.4	7.6	180
22.4	77.6	100			

№ 4917

[1471]

TOLUENE - ETHANOL (92%)

Solubility A, Wt. %	<i>t</i>
88.0	15



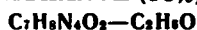
Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
48.40	51.60	-31.0	76.89	23.11	8.3
56.39	43.61	-17.2	83.00	17.00	14.0
65.84	34.16	-4.0	91.31	8.69	22.9
71.10	28.90	1.7	100.00	0.0	29.05

№ 4919

[1868]

THEOPHYLLINE -

ETHANOL (90%)



Solubility A, Wt. %	t
1.23	15

№ 4920

p-TOLUIDINE - ETHANOL

[1862]



Mutual Solubility, Mol. %		t	d ₄ ^t
A	B		
20.72	79.28	0	0.8885
26.0	74.0	5	0.8982
32.0	68.0	10	0.9080
38.6	61.4	15	0.9180
47.0	53.0	20	0.9265
56.0	44.0	25	0.9360

№ 4921

[1569]

p-TOLUIDINE -

ETHANOL



Solubility A, Wt. %	t
52.4	20

№ 4922

[150]

ETHANOL - LUPININE

HYDROCHLORIDE



Solubility A, Wt. %	t
13.42	0
27.27	20
53.15	78.2

№ 4923

[1975]

α-METHYL-d-MANNOSIDE - ETHANOL



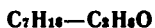
Solubility A, Mol. %	t	Solubility A, Mol. %	t
0.0940	37.9	0.415	66.1
0.177	47.4	0.611	76.2
0.248	54.6	0.755	81.0
0.340	62.0	0.897	84.6

* A content 96% C₂H₅O

№ 4924

[1471]

**HEPTANE –
ETHANOL (92%)**



Solubility A, Wt. %	<i>t</i>
28.5	15

№ 4925

[1729]

**2, 2 - BIS(ETHYLSULFONYL)-
PROPANE – ETHANOL (95.2%)**

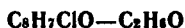


Solubility A, Wt. %	<i>t</i>
14.41	52

№ 4926

CHLOROACETOPHENONE – ETHANOL

[71]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.88	98.12	—23.5	23.41	76.59	28.7
2.50	97.50	—18.9	35.84	64.16	33.2
3.70	96.30	—8.0	48.25	51.75	36.6
7.43	92.57	3.8	58.32	41.68	38.8
9.67	90.33	10.3	73.67	26.33	41.4
13.82	86.18	18.2	89.49	10.51	46.0
18.81	81.19	23.2			

№ 4927

[1569]

INDOLE – ETHANOL



Solubility A, Wt. %	<i>t</i>
26.39	20

№ 4928

2, 4 - DICHLOROACETANILIDE – ETHANOL

[484]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
3.008	96.992	10	5.864	94.136	30
3.564	96.436	15	6.937	93.063	35
4.192	95.808	20	8.276	91.724	40
4.962	95.038	25	9.750	90.250	45

№ 4929

2, 4 - CHLOROBROMOACETANILIDE – ETHANOL

[484]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
2.575	97.425	10	4.891	95.109	30
2.961	97.039	15	5.820	94.180	35
3.466	96.534	20	6.887	93.113	40
4.095	95.905	25	8.186	91.814	45

№ 4930

4, 2 - CHLOROBROMOACETANILIDE – ETHANOL

[484]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.334	95.666	10	8.328	91.672	30
5.088	94.912	15	9.844	90.156	35
5.986	94.014	20	11.586	88.414	40
7.043	92.957	25	13.718	86.282	45

№ 4931

2, 4 - DIBROMOACETANILIDE – ETHANOL

[484]

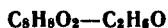


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
2.480	97.520	5	5.615	94.385	30
2.876	97.124	10	6.686	93.314	35
3.382	96.618	15	7.914	92.086	40
4.002	95.998	20	9.357	90.643	45
4.714	95.286	25			



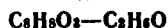
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
25.4	74.6	−10.5	51.6	48.4	0.2
29.9	70.1	−8.3	63.05	36.95	3.0
34.8	65.2	−5.8	81.1	18.9	8.1
41.55	58.45	−3.2	89.5	10.5	11.0

**2, 5 - DIMETHYL - 1, 4 -
BENZENEDIOL – ETHANOL**



Solubility A, Wt. %	<i>t</i>
1.10	20

**4 - HYDROXY - 3 - METHYL -
BENZALDEHYDE-ETHANOL**



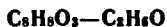
Solubility A, Wt. %	<i>t</i>
40.22	20

**4 - HYDROXY - 3 - METHYL -
BENZALDEHYDE-ETHANOL (95.2%)**



Solubility A, Wt. %	<i>t</i>
48.42	25

**p - METHOXYBENZOIC
ACID – ETHANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
46.7	53.3	0
53.6	46.4	16.5

**dl - MANDELIC ACID –
ETHANOL**

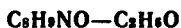


Mutual Solubility, Wt. %		<i>t</i>
A	B	
46.7	53.3	0
53.6	46.4	16.5

№ 4938

ACETANILIDE – ETHANOL

[1862]



Mutual Solubility Wt. %		<i>t</i>	d_4^t	Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B			A	B		
13.42	86.58	0	0.842	35.06	64.94	40	0.874
16.67	83.33	10	0.844	43.82	56.18	50	0.895
21.87	78.13	20	0.850	54.54	45.46	60	0.920
27.54	72.46	30	0.860				

№ 4939

p-CHLOROACETANILIDE – ETHANOL

[484]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
3.278	96.728	10	5.828	94.172	30
3.777	96.223	15	6.700	93.300	35
4.366	95.634	20	7.728	92.272	40
5.040	94.960	25	8.918	91.082	45

№ 4940

p-BROMOACETANILIDE – ETHANOL

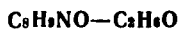
[484]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.244	95.756	5	8.440	91.560	30
4.847	95.153	10	9.715	90.285	35
5.561	94.439	15	11.156	88.844	40
6.390	93.610	20	12.767	87.233	45
7.300	92.700	25			

№ 4941

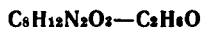
[2108]

**ACETANILIDE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
22.3	20
28.8	30

№ 4942 ,

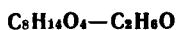
[1868]

**BARBITAL –
ETHANOL (90%)**

Solubility A, g/l.	<i>t</i>
117	15

№ 4943

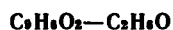
[175]

**OCTANEDIOIC ACID –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
15.5	4

№ 4944

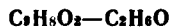
[1569]

COUMARIN – ETHANOL

Solubility A, Wt. %	<i>t</i>
11.16	20

№ 4945

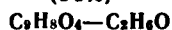
[1569]

**CINNAMIC ACID –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
18.05	20

№ 4946

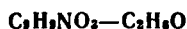
[1868]

***o*-ACETOXYBENZOIC
ACID – ETHANOL
(90%)**

Solubility A, g/l	<i>t</i>
200	20

№ 4947

[1569]

**N - BENZOYLGLYCINE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
4.40	20

№ 4948

o-ACETOTOLUIDE – ETHANOL

[854]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
9.5	90.5	25	41.5	58.5	70
11.6	88.4	30	47.4	52.6	75
14.0	86.0	35	53.9	46.1	80
16.4	83.6	40	60.5	39.5	85
19.3	80.7	45	67.0	33.0	90
22.7	77.3	50	74.1	25.9	95
26.8	73.2	55	81.8	18.2	100
31.5	68.5	60	90.5	9.5	105
36.3	63.7	65	100	0.0	110.3

№ 4949

p-ACETOTOLUIDE – ETHANOL

[1553]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
3.345	96.655	27.8	22.50	77.50	86.1
5.660	94.340	43.9	49.58	50.42	116.6
10.22	89.78	62.0	66.10	33.90	129.3
11.00	89.00	63.7	100.0	0.0	148.5
14.74	85.26	73.1			

№ 4950

[935]

**2-NONANONE –
ETHANOL**

Mutual Solubility Wt.%		<i>t</i>
A	B	
2.5	97.5	–40
12.1	87.9	–30
44.8	55.2	–20
92.9	7.1	–10

№ 4951

[1772]

**1-CHLORO-2, 4, 5-TRINITRO-
NAPHTHALENE – ETHANOL**


Solubility A, g/1.	<i>t</i>
2.56	25

№ 4952

[1772]

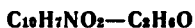
**1-CHLORO-2, 4-DINITRO-
NAPHTHALENE – ETHANOL**


Solubility A, g/1.	<i>t</i>
0.752	0
1.78	25

№ 4953

1-NITRONAPHTHALENE – ETHANOL (95%)

[555]

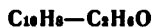


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
23.96	76.04	26	50.0	50.0	43.0
24.82	75.18	25.5	58.0	42.0	44.0
26.3	73.7	25.5	65.0	35.0	44.1
27.4	72.6	30.3	73.5	26.5	44.0
31.1	68.9	34.0	78.0	22.0	43.0
36.4	63.6	38.0	80.5	19.5	42.0
40.0	60.0	40.0	82.0	18.0	41.0
42.0	58.0	41.0	87.4	12.6	42.0
45.0	55.0	42.0	93.2	6.8	44.5

№ 4954

NAPHTHALENE – ETHANOL

[1882]



Mutual Solubility, Wt. %		<i>t</i>	d_4^t	Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B			A	B		
4.85	95.15	0	0.8175	15.25	84.75	40	0.812
7.06	92.94	10	0.814	27.01	72.99	50	0.822
9.26	90.74	20	0.810	44.45	55.55	60	0.855
10.39	89.61	25	0.809	55.55	44.45	65	0.890
11.82	88.18	30	0.809	83.33	16.67	70	0.930

№ 4955

NAPHTHALENE – ETHANOL

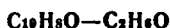
[1901]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
7.73	92.27	15.7	23.60	76.40	47.0
11.26	88.74	25.8	38.16	61.84	57.1
14.97	85.03	35.2	54.30	45.70	63.0
20.09	79.91	43.1	73.28	26.72	67.7

№ 4956

[816]

**2-NAPHTHOL –
ETHANOL (90%)**

Solubility A, g/l.	<i>t</i>
550	15.5

№ 4957 **N-2-PROPENYL-N'-PHENYLTHIOUREA – ETHANOL** [205]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.85	95.15	44.7	31.49	68.51	70.2
10.18	89.82	55.2	41.16	58.84	74.5
16.55	83.45	61.3	49.54	50.46	78.7
21.44	78.56	64.8	63.57	36.43	84.8
26.63	73.37	68.8	78.74	21.26	91.0

№ 4958

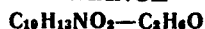
[1978]

**p-ACETOPHENETIDE –
ETHANOL (92.3%)**

Solubility A, Wt. %	<i>t</i>
33.3	b.p.

№ 4959

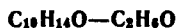
[1569]

**p-ACETOPHENETIDE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
15.82	20

№ 4960

[1868]

THYMOL – ETHANOL (90%)

Solubility A, g/l.	<i>t</i>
3000	15

№ 4961

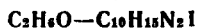
[156]

ETHANOL* – ANABASINE**HYDROCHLORIDE**

Solubility A, Wt. %	<i>t</i>
29.96	0
40.00	20
60.26	78.2

№ 4962

[156]

ETHANOL* – ANABASINE**HYDRIODIDE**

Solubility A, Wt. %	<i>t</i>
4.18	0
5.9	20
11.19	78.2

№ 4963

[816]

MENTHOL – ETHANOL

(95%)



Solubility A, g/l	<i>t</i>
5000	20

№ 4964

[1868]

TERPINOL HYDRATE –**(95%) ETHANOL**

Solubility A, g/l	<i>t</i>
71	15

№ 4965

[1978]

ANTIPYRINE –**ETHANOL (90%)**

Solubility A, Wt. %	<i>t</i>
42.9	25

№ 4966

[1978]

ANTIPYRINE –**ETHANOL**

Solubility A, Wt. %	<i>t</i>
50.0	25

* A content 96% C_2H_6O

№ 4967

[1569]

**ANTIPYRINE –
ETHANOL**
 $C_{11}H_{12}N_2O - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
42.6	20

№ 4968

ANTIPYRINE – ETHANOL
 $C_{11}H_{12}N_2O - C_2H_6O$

[67]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
40.0	60.0	14.0	60.7	39.3	41.0
43.7	56.3	18.5	67.9	32.1	56.5
48.0	52.0	24.5	77.4	22.6	71.0
53.3	46.7	31.5			

№ 4969

[1569]

**CARBAZOLE –
ETHANOL**
 $C_{12}H_9N - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
1.28	20

№ 4970

[1772]

**CARBAZOLE –
ETHANOL**
 $C_{12}H_9N - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.91 3.73	14 b.p.

№ 4971

[410]

**BIPHENYL –
ETHANOL**
 $C_{12}H_{10} - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
9.07	19.5

№ 4972

ACENAPHTHENE – ETHANOL

[1862]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.57	99.43	0	2.60	97.40	40
0.84	99.16	10	3.90	96.10	50
1.20	98.80	20	7.00	93.00	60
1.70	98.30	30	12.50	87.50	70

№ 4973

[1569]

AZOBENZENE –
ETHANOL

Solubility A, Wt. %	<i>t</i>
8.47	20

№ 4974

[410]

DIPHENYLAMINE –
ETHANOL

Solubility A, Wt. %	<i>t</i>
35.9	19.5

№ 4975

[1569]

BENZIDINE –
ETHANOL

Solubility A, Wt. %	<i>t</i>
7.13	20

№ 4976

[444]

2 - METHYLPROPYL TARTRATE – ETHANOL



Solubility A, Wt. %			<i>t</i>
<i>d</i> - form	racemic form	<i>d</i> + <i>r</i> - form blend	
25.93	25.87	25.23 + 15.50	0
33.64	36.27	50.46 + 33.84	18
36.87	41.69	54.08 + 36.81	25

LACTOSE – ETHANOL

Solubility A, wt. %	<i>t</i>
0.09	20

DODECYLAMMONIUM CHLORIDE –**ETHANOL (95%)**

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
7.19	92.81	13.14	63.65	36.35	59.19
19.84	80.16	30.79	65.77	34.23	61.94
20.05	79.95	30.81	67.06	32.94	63.53
30.60	69.40	39.32	69.23	30.77	66.97
45.70	54.30	48.67	70.83	29.17	69.43
59.35	40.65	56.14	72.63	27.37	73.40
61.71	38.29	57.46	74.46	25.54	77.79

DODECYLAMMONIUM CHLORIDE – ETHANOL

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A OH ₂	B		A	B	
10.97	89.03	22.3	60.30	39.70	58.5
19.12	80.88	31.9	60.80	39.20	60.1
30.40	69.60	40.9	61.45	38.55	61.8
41.35	58.65	47.9	62.20	37.80	63.8
49.68	50.32	52.3	62.88	37.12	66.0
55.24	44.76	55.2	63.75	36.25	68.2
57.32	42.68	56.2	64.81	35.19	71.1
58.50	41.50	56.8	65.55	34.45	73.3
59.58	40.42	57.3	66.35	33.65	75.4
60.00	40.00	57.5	68.40	31.60	78.5

№ 4980 [545]

**2-CHLORO-7-NITRO-9-
FLUORENONE – ETHANOL**

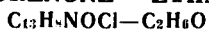
Solubility A, Wt. %	<i>t</i>
0.40	18

№ 4981 [545]

**2-BROMO-7-NITRO-9-
FLUORENONE – ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.25	18

№ 4982 [545]

**2-CHLORO-7-AMINO-9-
FLUORENONE – ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.30	18

№ 4983 [545]

**2-BROMO-7-NITRO-9-
FLUORENONE OXIME – ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.25	18

№ 4984 [545]

**2-CHLORO-7-NITROFLUORENE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.25	18

№ 4985 [545]

**2-BROMO-7-NITROFLUORENE –
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.25	18

№ 4986

[485]

**p-NITROBENZALDEHYDE 2,4-DICHLOROPHENYL-
HYDRAZONE – ETHANOL**

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.052	0.05	0.115	29.85
0.057	5.85	0.142	34.80
0.064	11.90	0.173	39.34
0.075	16.0	0.214	44.15
0.087	21.5		

№ 4987

[485]

o-NITROBENZALDEHYDE 2-CHLORO-4-BROMOPHENYLHYDRAZONE – ETHANOL



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.039	0.05	0.079	20.0
0.047	5.25	0.093	25.0
0.056	10.5	0.116	30.0
0.055	15.0	0.159	37.85

№ 4988

[485]

**o-NITROBENZALDEHYDE
2-CHLORO-4-BROMOPHENYL-
HYDRAZONE – ETHANOL**

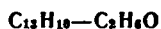


Solubility A, Wt. %	<i>t</i>
0.034	0.05
0.052	12.5
0.066	20.0
0.087	26.9
0.109	33.5
0.141	40.05

№ 4989

[1401]

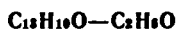
FLUORENE – ETHANOL



Mutual Solubility, Mol. %		<i>t</i>
A	B	
0.50	99.50	20
0.85	99.15	40
1.76	98.24	60
4.60	95.40	80

№ 4990

[1473]

**BENZOPHENONE —
ETHANOL**

Solubility A, Wt. %	<i>t</i>
28.1	20

№ 4991

[545]

**2-CHLORO-7-AMINO-
FLUORENE — ETHANOL**

Solubility A, Wt. %	<i>t</i>
1.63	18

№ 4992

[545]

**2-BROMO-7-AMINO-
FLUORENE — ETHANOL**

Solubility A, Wt. %	<i>t</i>
1.0	18

№ 4993

[545]

**2-BROMO-7-AMINO-9-
FLUORENOL — ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.41	18

№ 4994

[1569]

**N, N'-DIPHENYLUREA —
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.83	20

№ 4995

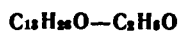
[1772]

**NOVOCAINE HYDROCHLORIDE —
ETHANOL**

Solubility A, Wt. %	<i>t</i>
3.0	20

№ 4996

[935]

**2-TRIDECANONE —
ETHANOL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.5	98.5	-10
6.1	93.9	0
19.2	80.8	10
73.7	26.3	20

№ 4997

**METHYLDODECYLAMMONIUM CHLORIDE –
ETHANOL (95%)**

[400]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
10.13	89.87	11.95	60.71	39.29	55.09
20.05	79.95	23.45	65.10	34.90	59.01
30.08	69.92	31.81	68.03	31.97	64.53
40.33	59.67	39.50	71.11	28.89	72.77
50.54	49.46	46.78	75.09	24.91	84.75

№ 4998

[908]

**ANTHRAQUINONE –
ETHANOL**



Solubility A, Wt.%	<i>t</i>
0.434	25

№ 4999

[1772]

**ANTHRAQUINONE –
ETHANOL**



Solubility A, Wt.%	<i>t</i>
0.05	18
2.20	b.p.

№ 5000

[840]

**DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) – ETHANOL
(95%)**



Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.8	99.2	0.0
1.0	99.0	7.2
2.2	97.8	24.0
3.9	96.1	48.0

№ 5001

[307]

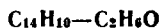
**PHENANTHRENE —
ETHANOL**
 $C_{14}H_{10} - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
2.69	12.3
3.00	14.8

№ 5002

PHENANTHRENE — ETHANOL

[1862]

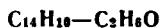


Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B		
3.10	96.90	0	0.814
3.38	96.62	10	0.807
4.31	95.69	20	0.801
4.85	95.15	25	0.799
5.48	94.52	30	0.797
6.80	93.20	40	0.795
8.68	91.32	50	0.794
12.28	87.72	60	0.797
23.08	76.92	70	0.815

№ 5003

[887]

PHENANTHRENE — ETHANOL



Mutual Solubility Wt. %		<i>t</i>
A	B	
1.72	98.28	-10
2.20	97.80	-5
2.68	97.32	0
3.16	96.84	5
3.63	96.37	10
4.10	95.90	15
4.58	95.42	20
5.21	94.79	25
5.49	94.51	30

№ 5004

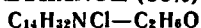
[1808]

 β -PHENYLGLYOXAL PHENYLHYDRAZONE - ETHANOL

Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
8.8	91.2	70.0	74.9	25.1	103.4
19.6	80.4	83.4	90.2	9.8	113.5
39.5	60.5	93.5	100.0	0.0	128.5
55.2	44.8	98.0			

№ 5005

[400]

**DIMETHYLDODECYLAMMONIUM CHLORIDE -
ETHANOL (95%)**

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
30.24	69.76	6.96	62.38	37.62	34.46
34.78	65.22	10.47	66.94	33.06	39.21
39.94	60.06	14.83	71.79	28.21	47.44
47.74	52.26	21.04	72.25	27.75	48.66
52.28	47.72	24.94	74.88	25.12	60.29
53.81	46.19	26.55	75.44	24.56	62.77

№ 5006

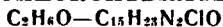
[1868]

 **β -EUCAINE HYDRO-
CHLORIDE -
ETHANOL (90%)**

Solubility A, g/l.	<i>t</i>
90	15

№ 5007

[156]

**ETHANOL* - APHILIDINE
CHLOROHYDRATE**

Solubility A, Wt.%	<i>t</i>
14.81	0
20.47	20
42.30	78.2

№ 5008

[156]

**ETHANOL* - APHILIDINE
IODOHYDRATE**

Solubility A, Wt.%	<i>t</i>
14.74	0
21.27	20
72.72	78.2

№ 5009

[1868]

**SPARTEINE SULFATE -
ETHANOL (90%)**

Solubility A, g/l.	<i>t</i>
200	15

* A content 96% C_2H_6O

**TRIMETHYLDODECYLAMMONIUM CHLORIDE –
ETHANOL (95%)**

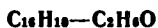


Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
44.91	55.09	7.00	76.15	23.85	59.59
51.90	48.10	17.29	77.34	22.66	74.77
60.95	39.05	32.25	78.70	21.30	91.34
65.41	34.59	40.13	79.99	20.01	107.5
72.42	27.58	53.26			

№ 5011

[1772]

PYRENE – ETHANOL



Solubility A, Wt. %	<i>t</i>
1.35	10
2.98	b.p.

№ 5012 1, 3 - DIPHENYL - 2 - [639]

**BROMO - 3 - METHOXY - 2 -
PROPENE - 1 - ONE – ETHANOL**



Isomers of A,	Solubility A, Wt. %	<i>t</i>
Isomer with $t_{m.pt.} = 102$	9.9	19
Isomer with $t_{m.pt.} = 71-72$	6.1	17

№ 5013

[20]

**ETHANOL – SCARLET DYE
J FOR SILK ACETATE**



Solubility B, Wt. %	<i>t</i>
0.28	20

№ 5014

[1978]

**HOMATROPINE HYDRO-
BROMIDE – ETHANOL**



Solubility A, Wt. %	<i>t</i>
2.99	25
10.3	60

№ 5015

[686]

**HEXADECANOIC ACID –
ETHANOL**



Solubility A, g/l.	<i>t</i>
28	10
92	20
319	40

№ 5016

[20]

**ETHANOL – BLUE DYE K
FOR SILK ACETATE**



Solubility B, Wt. %	<i>t</i>
0.12	20

№ 5017

[1868]

**APOMORPHINE
HYDROCHLORIDE –
ETHANOL (90%)**

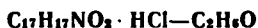


Solubility A, Wt. %	<i>t</i>
1.96	25

№ 5018

[621]

**APOMORPHINE
HYDROCHLORIDE –
ETHANOL (90%)**

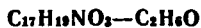


Solubility A, Wt. %	<i>t</i>
1.93	15.5

№ 5019

[1569]

PIPERINE – ETHANOL



Solubility A, Wt. %	<i>t</i>
6.24	20

№ 5020

[1569]

**p, p' - BIS DIMETHYLAMINO-
BENZOPHENONE – ETHANOL**



Solubility A, Wt. %	<i>t</i>
0.63	20

№ 5021

[1978]

**COCAINE – ETHANOL
(92.3%)**

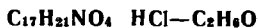


Solubility A, Wt. %	<i>t</i>
16.7	25

№ 5022

[1978]

**COCAINE HYDROCHLORIDE –
ETHANOL (92.3%)**



Solubility A, Wt. %	<i>t</i>
27.5	25
41.5	60

№ 5023 [1772]

CHRYSENE – ETHANOL
 $C_{18}H_{12}-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.097	16
0.170	<i>t</i> _{кип.}

№ 5024 [107]

**TRIPHENYLAMINE –
 ETHANOL (96%)**
 $C_{18}H_{15}N-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.73	20
5.2	74

№ 5025 [2034]

**1,2-BENZENEDIOL
 ARSENATE-
 ETHANOL**
 $C_{18}H_{19}O_7As-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
82.7	20

№ 5026 [20]

**ETHANOL – SUDAN
 YELLOW DYE U**
 $C_2H_6O-C_{18}H_{18}N_4O$

Solubility B, Wt. %	<i>t</i>
0.038	20

№ 5027 [1978]

**CODEINE – ETHANOL
 (92.3%)**
 $C_{18}H_{21}NO_3-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
38.9	25
52.1	60

№ 5028 [1978]

**CODEINE PHOSPHATE –
 ETHANOL (92.3%)**
 $C_{18}H_{21}NO_3 \cdot H_3PO_4-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.383	25
1.01	60

№ 5029 [1978]

**CODEINE SULFATE –
 ETHANOL (92.3%)**
 $C_{18}H_{21}NO_3 \cdot H_2SO_4-C_2H_6O$

Solubility A, Wt. %	<i>t</i>
0.10	25
0.27	60

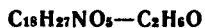
№ 5030 [1868]

**ATROPINE METHYLBROMIDE –
 ETHANOL (90%)**
 $C_{18}H_{23}NO_2Br-C_2H_6O$

Solubility A, g/l.	<i>t</i>
100	20

2-UNDECYLBENZOTHAZOLE – ETHANOL (95%)

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
<1	>99	-20	71.0	29.0	10 20
1.8	98.2	-10	Completely miscible		
11.0	89.0	0			

 **β -EUCAINE LACTATE –
ETHANOL (90%)**

Solubility A, g/1.	<i>t</i>
125	15

9, 12-OCTADECADIENOIC ACID – ETHANOL

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
4.3	95.7	-50	67.5	32.5	-20
10.0	90.0	-40	92.0	8.0	-10
29.8	70.2	-30	Completely miscible		0

RAFFINOSE – ETHANOL

Solubility A, Wt.%	<i>t</i>
3.47	20

№ 5035

9 - OCTADECENOIC ACID - ETHANOL

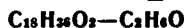
[932]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.7	99.3	-40	70.1	29.9	0
2.1	97.9	-30	93.6	6.4	10
8.7	91.3	-20	Completely miscible		20
32.2	67.8	-10			

№ 5036

[686]

**OCTADECENOIC ACID -
ETHANOL**

Solubility A, g/l.	<i>t</i>
9	10
20	20
45	30
138	40

№ 5037

[175]

**CINCHONINE -
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.86	19

№ 5038

[1825]

**CINCHONINE -
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.88	25

№ 5039

[2058]

**CINCHONINE -
ETHANOL**

Solubility A, Wt. %	<i>t</i>
0.79	20

№ 5040

[2058]

**CINCHONIDINE -
ETHANOL (95%)**

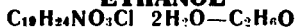
Solubility A, Wt. %	<i>t</i>
4.8	20

№ 5041 [1710]

**ETHYLMORPHINE —
ETHANOL**

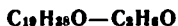
Solubility A, Wt. %	<i>t</i>
1.31	25

№ 5042 [1710]

**ETHYLMORPHINE
HYDROCHLORIDE —
ETHANOL**

Solubility A, g/l.	<i>t</i>
38.5	15
50	25
121	40
200	50

№ 5043 [935]

**2-NONADECANONE —
ETHANOL**

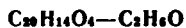
Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.6	97.4	30
19.3	80.7	40
84.1	15.9	50

№ 5044 [307]

**PHENANTHRENE PICRATE —
ETHANOL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.62	98.38	12.3
1.78	98.22	14.3
1.87	98.13	17.5

№ 5045 [1589]

**PHENOLPHTHALEIN —
ETHANOL**

Solubility A, Wt. %	<i>t</i>
9.29	20

№ 5046 [1978]

QUININE — ETHANOL

Solubility A, Wt. %	<i>t</i>
62.5	25

№ 5047 [2058]

QUININE — ETHANOL

Solubility A, Wt. %	<i>t</i>
50	20

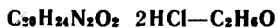
№ 5048 [1569]

QUININE — ETHANOL

Solubility A, Wt. %	<i>t</i>
62.5	20

QUINIDINE – ETHANOL

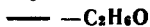
Solubility A, g/l.	<i>t</i>
22.2,	25

**QUININE
DIHYDROCHLORIDE –
ETHANOL (90%)**

Solubility A, g/l.	<i>t</i>
200	15

**QUININE TANNATE –
ETHANOL (90%)**

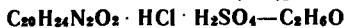
Solubility A, g/l	<i>t</i>
333	15

SALTS OF QUININE – ETHANOL $t = 25$

A		Solubility A, Wt. %
Name	Formula	
Quinine	$C_{20}H_{24}N_2O_2$	62.49
Quinine Hydrate	$C_{20}H_{24}N_2O_2 \cdot 3H_2O$	62.49
Quinine Hydrochloride	$C_{20}H_{23}N_2O_2Cl \cdot 2H_2O$	62.49
Quinine Salicylate	$C_{27}H_{37}N_2O_2 \cdot 1/2H_2O$	8.333
Quinine Sulfate	$C_{40}H_{50}N_4O_8S \cdot 7H_2O$	1.146
" "	$C_{20}H_{26}N_2O_6S \cdot 7H_2O$	5.258
Quinine Hydrobromide	$C_{20}H_{23}N_2O_2Br \cdot H_2O$	59.87

QUINIDINE – ETHANOL

Solubility A, Wt. %	<i>t</i>
3.85	20

**QUININE
HYDROCHLORIDE –
ETHANOL (90%)**

Solubility A, Wt. %	<i>t</i>
12.5	15

№ 5055

[865]

**p-CHLOROPHENACYL
DODECANOATE —
ETHANOL (95%)
C₂₀H₃₉O₂Cl—C₂H₆O**

Solubility A, g/l.	<i>t</i>
6.060	20
7.856	25

№ 5056

[865]

**p-BROMOPHENACYL
DODECANOATE —
ETHANOL (95%)
C₂₀H₃₉O₂Br—C₂H₆O**

Solubility A, g/l.	<i>t</i>
3.832	20
4.288	25

№ 5057

[865]

**PHENACYL
DODECANOATE —
ETHANOL (95%)
C₂₀H₃₈O₂—C₂H₆O**

Solubility A, g/l.	<i>t</i>
29.15	20
53.80	25

№ 5058

[1868]

**β-ELATERIN-ETHANOL (90%)
C₂₀H₂₈O₃—C₂H₆O**

Solubility A, g/l.	<i>t</i>
0.9	15

№ 5059

[1569]

**HYDROBENZAMIDE —
ETHANOL
C₂₁H₁₉N₂—C₂H₆O**

Solubility A, Wt. %	<i>t</i>
1.95	20

№ 5060

[1868]

**STRYCHNINE —
ETHANOL
C₂₁H₂₂N₂O₂—C₂H₆O**

Solubility A, Wt. %	<i>t</i>
0.70	15

№ 5061

[1738]

**STRYCHNINE —
ETHANOL
C₂₁H₂₂N₂O₂—C₂H₆O**

Solubility A, Wt. %	<i>t</i>
0.82	20

№ 5062

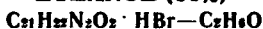
[1868]

**STRYCHNINE
HYDROCHLORIDE —
ETHANOL (90%)
C₂₁H₂₂N₂O₂ HCl—C₂H₆O**

Solubility A, g/l.	<i>t</i>
13.7	15

№ 5063 [1868]

**STRYCHNINE
HYDROBROMIDE —
ETHANOL (90%)**



Solubility A, g/l.	<i>t</i>
10.4	15

№ 5064 [622]

**STRYCHNINE NITRATE —
ETHANOL (90%)**



Solubility A, g/l.	<i>t</i>
7.7 34.5	15 b.p.

№ 5065 [1711]

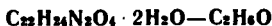
**STRYCHNINE NITRATE —
ETHANOL**



Solubility A, g/l.	<i>t</i>
3.7	25

№ 5066 [863]

**STRYCHNINE FORMATE —
ETHANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
9.09	90.91	18.5
9.34	90.66	20
9.62	90.38	22

№ 5067 [727]

**YOHIMBINE —
ETHANOL**



Solubility A, Wt. %	<i>t</i>
3.85 9.1	20 <i>t</i> _{кнп.}

№ 5068 [20]

**ETHANOL — SUDAN
BLUE DYE U**



Solubility A, Wt. %	<i>t</i>
0.046	20

№ 5069 [865]

**p-CHLOROPHENACYL TETRA-
DECANOATE — ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
2.472 3.071	20 25

№ 5070 [865]

**p-BROMOPHENACYL TETRA-
DECANOATE — ETHANOL (95%)**



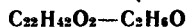
Solubility A, g/l.	<i>t</i>
1.60 2.092	20 25

№ 5071 [865]

**PHENACYL TETRA-
DECANOATE – ETHANOL (95%)**

Solubility A, g/l.	<i>t</i>
16.98	20
17.49	25

№ 5072 [1940]

**CIS-13-DOCOSENOIC ACID –
ETHANOL (91.5%)**

Solubility A, g/l.	<i>t</i>
23.56	0

№ 5073 [1711]

BRUCINE – ETHANOL

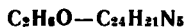
Solubility A, Wt.%	<i>t</i>
45.2	25

№ 5074 [2060]

**BENZYL HEXADECANOATE –
ETHANOL**

Solubility A, Wt.%	<i>t</i>
3.2	16

№ 5075. [20]

**ETHANOL –
SUDAN RED DYE 7V**

Solubility A, Wt.%	<i>t</i>
0.046	20

№ 5076 [1291]

**CODEINE PICRATE –
ETHANOL**

Solubility A, Wt.%	<i>t</i>
0.095	20

№ 5077 [865]

**p-CHLOROPHENACYL HEXA-
DECANOATE – ETHANOL (95%)**

Solubility A, g/l.	<i>t</i>
0.784	20
1.020	25

№ 5078 [865]

**p-BROMOPHENACYL HEXA-
DECANOATE – ETHANOL (95%)**

Solubility A, g/l.	<i>t</i>
0.512	20
0.684	25

№ 5079

[865]

**PHENACYL HEXADECANOATE –
ETHANOL (95%)^o**
C₂₄H₄₈O₂—C₂H₆O

Solubility A, g/l.	<i>t</i>
5.136	20
7.880	25

№ 5080

[637]

**2-HEPTADECYLBENZOTHAZOLE –
ETHANOL (95%)**
C₂₄H₃₉NS—C₂H₆O

Mutual Solubility Wt.%		<i>t</i>
A	B	
<1	>99	30
7.7	92.3	40
9.4	90.6	50
Completely miscible		>80

№ 5081

[1291]

**THEBAINE PICRATE –
ETHANOL**
C₂₅H₂₄N₄O₁₀—C₂H₆O

Solubility A, Wt.%	<i>t</i>
0.10	20

№ 5082

[2060]

**BENZYL OCTADECANOATE –
ETHANOL**
C₂₅H₄₂O₂—C₂H₆O

Solubility A, Wt.%	<i>t</i>
0.68	16

№ 5083

[1291]

**PAPAVERINE PICRATE –
ETHANOL**
C₂₈H₂₄N₄O₁₁—C₂H₆O

Solubility A, Wt.%	<i>t</i>
0.052	20

№ 5084

[865]

**p-CHLOROPHENACYL OCTA-
DECANOATE – ETHANOL (95%)**
C₂₈H₄₁O₂Cl—C₂H₆O

Solubility A, g/l.	<i>t</i>
0.648	20
1.000	25

№ 5085 [865]

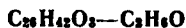
**p - BROMOPHENACYL OCTA-
DECANOATE - ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
0.20	20
0.26	25

№ 5086 [865]

**PHENACYL OCTADECANOATE -
ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
2.16	20
3.65	25

№ 5087 [20]

**ETHANOL - ACID DYE
BRIGHT GREEN J**



Solubility A, Wt. %	<i>t</i>
10.5	20

№ 5088 [20]

**ETHANOL - CYANINE
DYE GREEN 5G**



Solubility A, Wt. %	<i>t</i>
0.028	20

№ 5089 [865]

**p - CHLOROPHENACYL
EICOSANOATE - ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
0.100	20
0.125	25

№ 5090 [865]

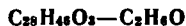
**p - BROMOPHENACYL EICO-
SANOATE - ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
0.080	20
0.106	25

№ 5091 [865]

**PHENACYL EICOSANOATE -
ETHANOL (95%)**



Solubility A, g/l.	<i>t</i>
1.348	20
2.660	25

№ 5092. [615]

**URSON -
ETHANOL (95%)**



Solubility A, Wt. %	<i>t</i>
0.9	20
2.8	b.p.

№ 5093 [865]
**p - CHLOROPHENACYL
 LIGNOCERATE – ETHANOL (95%)**
 $C_{30}H_{49}O_2Cl - C_2H_5O$

Solubility A, g/l.	<i>t</i>
0.054	20
0.072	25

№ 5094 [865]
**p - BROMOPHENACYL
 LIGNOCERATE – ETHANOL (95%)**
 $C_{30}H_{49}O_2Br - C_2H_5O$

Solubility A, g/l.	<i>t</i>
0.040	20
0.070	25

№ 5095 [865]
**PHENACYL LIGNOCERATE –
 ETHANOL (95%)**
 $C_{30}H_{50}O_2 - C_2H_5O$

Solubility A, g/l.	<i>t</i>
1.209	20
1.816	25

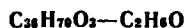
№ 5096 [2060]
**HEXADECANOIC ANHYDRIDE –
 ETHANOL**
 $C_{32}H_{62}O_2 - C_2H_5O$

Solubility A, Wt. %	<i>t</i>
0.18	20

№ 5097 [1240]
GLYCEROL TRIDECANOATE – ETHANOL
 $C_{33}H_{64}O_6 - C_2H_5O$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
0.44	99.56	9.5	14.36	85.64	25.2
0.99	99.01	13.8	29.32	70.68	58.5
2.01	97.99	17.6	35.28	64.72	60.8
3.86	96.14	20.8	68.40	31.60	69.0
5.81	94.19	23.4	73.80	26.20	69.0
7.44	92.56	24.2	83.30	16.70	65.0
9.87	90.13	25.1	85.24	14.76	55.0
11.83	88.17	24.9	92.61	7.39	35.0
12.72	87.28	25.4			

№ 5098 [2060]

**OCTADECANOIC ANHYDRIDE —
ETHANOL**

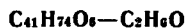
Solubility A, Wt.%	<i>t</i>
0.023	20

№ 5100 [1711]

**CINCHONIDINE SULFATE —
ETHANOL (92.3%)**

Solubility A, Wt.%	<i>t</i>
0.84	25

№ 5102 [2060]

**GLYCEROL BUTANOATE - 1, 3-
DIHEXADECANOATE — ETHANOL**

Solubility A, Wt.%	<i>t</i>
0.55	20

№ 5104 [1711]

**STRYCHNINE SULFATE —
ETHANOL**

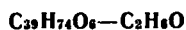
Solubility A, g/l.	<i>t</i>
8.0	25

№ 5099 [1711]

**CINCHONINE SULFATE —
ETHANOL (92.3%)**

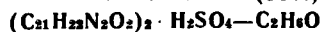
Solubility A, Wt.%	<i>t</i>
8.9	25

№ 5101 [1569]

**GLYCEROL
TRIDODECANOATE — ETHANOL**

Solubility A, Wt.%	<i>t</i>
6.19	20

№ 5103 [1978]

**STRYCHNINE SULFATE
ETHANOL (94%)**

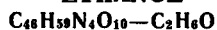
Solubility A, g/l.	<i>t</i>
19	25
62	60

№ 5105 [1868]

**QUININE GLYCEROPHOSPHATE —
ETHANOL (90%)**

Solubility A, Wt.%	<i>t</i>
0.5	15

**YOHIMBINE TARTRATE —
ETHANOL**

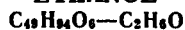


Solubility A, Wt. %	<i>t</i>
0.27	20
0.62	b.p.

№ 5107

[1628]

**GLYCEROL HEXANOATE DIOCTADECANOATE —
ETHANOL**



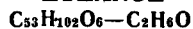
$$t = 27.5$$

A	Solubility A, g/1
Glycerol 1-Decanoate-2,3-Dioctadecanoate	2.2
" 2- " -1,3- "	1.4

№ 5108

[1628]

**GLYCEROL TETRADECANOATE DIOCTADECANOATE —
ETHANOL**



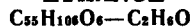
$$t = 29$$

A	Solubility A, g/1.
Glycerol 1-Tetradecanoate-2,3-Dioctadecanoate	5.9
" 2- " -1,2- "	4.7

№ 5109

[1628]

**GLYCEROL HEXADECANOATE DIOCTADECANOATE —
ETHANOL**



$$t = 27.5$$

A	Solubility A, g/1.
Glycerol 1-Hexadecanoate-2,3-Dioctadecanoate	4.2
" 2- " -1,3- "	1.0

№ 5110 **GLYCEROL** [1569]
TRIOCTADECANOATE —
ETHANOL
 $C_{57}H_{116}O_6 - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
11.5	20

№ 5111 **GLYCEROL** [1240]
TRIOCTADECANOATE —
ETHANOL
 $C_{57}H_{116}O_6 - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.02	99.98	20
0.03	99.97	50
0.15	99.85	60
0.60	99.40	65
1.20	98.80	67

№ 5112 **SALTS OF PHOSPHONOUS ACID — ETHANOL (96%)** [628]
 $R_3PO_2Me - C_2H_6O$

Name	Salt Formula	Solubility A, g/l.		
		<i>t</i> =25	<i>t</i> =35	<i>t</i> =45
Lead Dibutylphosphonite	$[(C_4H_9)_2PO_2]_2Pb$	4.52	5.42	5.88
• bis p-Chlorophenylphosphonite	$[(ClC_6H_4)_2PO_2]_2Pb$	0.68	0.84	1.12
• di-n-decylphosphonite	$[(C_{10}H_{21})_2PO_2]_2Pb$	0.36	0.42	0.56
Copper Diphenylphosphonite	$[(C_6H_5)_2PO_2]_2Cu$	0.06	0.20	—
• Dibutylphosphonite	$[(C_4H_9)_2PO_2]_2Cu$	2.46	2.50	3.24
• Di-n-decylphosphonite	$[(C_{10}H_{21})_2PO_2]_2Cu$	0.26	0.60	1.08
Barium Diphenylphosphonite	$[(C_6H_5)_2PO_2]_2Ba$	1.12	1.14	1.52
• Dibutylphosphonite	$[(C_4H_9)_2PO_2]_2Ba$	138.8	140.5	212.4
• bis-p-Chlorophenylphosphonite	$[(ClC_6H_4)_2PO_2]_2Ba$	4.30	5.38	9.16
• Di-n-decylphosphonite	$[(C_{10}H_{21})_2PO_2]_2Ba$	3.26	3.27	3.34
Magnesium Diphenylphosphonite	$[(C_6H_5)_2PO_2]_2Mg$	2.90	2.88	—
• Dibutylphosphonite	$[(C_4H_9)_2PO_2]_2Mg$	1.78	2.66	7.28
• bis-p-Chlorophenylphosphonite	$[(ClC_6H_4)_2PO_2]_2Mg$	4.00	2.86	1.96
• Di-n-decylphosphonite	$[(C_{10}H_{21})_2PO_2]_2Mg$	0.30	0.48	0.76
Calcium Diphenylphosphonite	$[(C_6H_5)_2FO_2]_2Ca$	12.24	11.96	11.99
• Dibutylphosphonite	$[(C_4H_9)_2PO_2]_2Ca$	3.14	4.18	7.12
• bis-p-Chlorophenylphosphonite	$[(ClC_6H_4)_2PO_2]_2Ca$	6.36	7.60	29.70
• Di-n-decylphosphonite	$[(C_{10}H_{21})_2PO_2]_2Ca$	0.24	0.38	0.62

— —C₂H₅O

Solubility of the blend of fatty acids, weight % of initial fat	t	Initial fat	Solubility of the blend of fatty acids, weight % of initial fat	t	Initial fat
2.42	0	Mutton Fat	5.33	0	Pork Fat
4.78	10		10.10	10	
40.46	26		54.33	26	
2.45	0	Beef Fat	9.59	0	Butter
5.70	10		19.88	10	
45.13	26		61.27	26	
4.76	0	Veal Fat	2.31	0	Margarine
12.11	10		4.71	10	
57.82	26		32.00	26	

ESTERS OF THE HIGHER FATTY ACIDS AND GLYCOLS - ETHANOL

— —C₂H₅O

A		Solubility A, Wt. %	t
Name	Formula		
Ethylene Glycol Mono-octadecanoate	C ₂₀ H ₄₀ O ₃	0.666	0
" " " "	"	1.961	15
Ethylene Glycol Dioctadecanoate	C ₃₈ H ₇₄ O ₄	0.01	0
" " " "	"	0.02	15
Ethylene Glycol Monohexadecanoate	C ₁₈ H ₃₆ O ₃	1.594	0
" " " "	"	9.091	15
Ethylene Glycol Dihexadecanoate	C ₃₄ H ₆₆ O ₄	0.018	0
" " " "	"	0.055	15
Propylene Glycol Mono-octadecanoate	C ₂₁ H ₄₂ O ₃	0.021	0
" " " "	"	0.034	15
Propylene Glycol Dioctadecanoate	C ₃₉ H ₇₆ O ₄	0.0012	0
" " " "	"	0.0063	15
Propylene Glycol Monohexadecanoate	C ₁₉ H ₃₈ O ₃	0.0193	0
" " " "	"	0.0907	15
Propylene Glycol Dihexadecanoate	C ₃₅ H ₆₈ O ₄	0.0516	0
" " " "	"	0.0115	15
Trimethylene Glycol Mono-octadecanoate	C ₂₁ H ₄₂ O ₃	0.01431	0
" " " "	"	0.0305	15
Trimethylene Glycol Dioctadecanoate	C ₃₉ H ₇₆ O ₄	0.00126	0
" " " "	"	0.00381	15
Trimethylene Glycol Dihexadecanoate	C ₃₅ H ₆₈ O ₄	0.0244	0
" " " "	"	0.0517	15

DERIVATIVES OF ANTHRAQUINONE – ETHANOL

— — C_2H_6O $t=60$

A		Solubility A, g/l.
Name	Formula	
1 - Aminoanthraquinone	$C_{14}H_9NO_2$	3.51
1, 4 - Diaminoanthraquinone	$C_{14}H_{10}N_2O_2$	5.54
1, 5 - Diaminoanthraquinone		6.85
1, 4, 5, 8 - Tetra-aminoanthraquinone	$C_{14}H_{12}N_4O_2$	1.84
1, 8 - Diaminoanthraquinone	$C_{14}H_{10}N_2O_2$	6.82
1, 2 - Dihydroxyanthraquinone	$C_{14}H_{16}O_4$	3.70
1, 2, 4 - Trihydroxyanthraquinone	$C_{14}H_{15}O_5$	8.61
1 - Hydroxy - 4 - aminoanthraquinone	$C_{14}H_{19}NO_3$	5.14
1 - Hydroxy - 4 - 8 - diaminoanthraquinone	$C_{14}H_{10}N_2O_3$	1.06
1 - N - Methylaminoanthraquinone	$C_{15}H_{11}NO_2$	14.96
1 - Amino - 2 - methylanthraquinone	$C_{15}H_{11}NO_2$	5.88
1 - Amino - 4 - anilinoanthraquinone	$C_{20}H_{14}N_2O_2$	6.57
1 - Amino - 4 - p - toluidinoanthraquinone	$C_{21}H_{16}N_2O_2$	0.47
1, 4 - di - p - toluidinoanthraquinone	$C_{28}H_{22}N_2O_2$	0.34
1, 4 - di - p - toluidino - 2 - methylanthraquinone	$C_{29}H_{24}N_2O_2$	2.25

TURPENTINE OIL – ETHANOL (95 vol.%)

— — C_2H_6O

Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
97.6	2.4	20.7	51.7	48.3	29.6
96.6	3.4	42.2	47.2	52.8	23.9
92.8	7.2	53	38.6	61.4	16.3
89.8	10.2	53.1	23.4	76.6	-15.5
79.7	20.3	44	18.9	81.1	-24
69.4	30.6	37.2	12.9	87.1	-63

TURPENTINE OIL – ETHANOL (98 vol.%)

— — C_2H_6O

Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
97.3	2.7	-35.6	67.1	32.9	-20.9
95.2	4.8	-23	57.4	42.6	-26.1
90.5	9.5	-20.9	51.8	48.2	-30
86.8	13.2	-18.1	42.0	58.0	-45.3
84.0	16.0	-17.8	28.1	71.9	-79.2
75.6	24.4	-18.8			

№ 5118

[2113]

**ETHANOL —
COTTON SEED OIL**

 C_2H_6O — —

Mutual Solubility, Wt. %		<i>t</i>
A	B	
18.6	81.4	25
89.5	10.5	25

№ 5120

[1569]

**HEMOGLOBIN —
ETHANOL**

 — — C_2H_6O

Solubility A, Wt. %	<i>t</i>
0.37	20

№ 5119

[580]

**ETHANOL —
VARIOUS OILS**

 C_2H_6O — —

 $t = 14-15$

B	Solubility B, Wt. %
Linseed Oil	3.32
Rape Seed Oil	1.36
Cotton Seed Oil	3.61
Cotton Seed Oil	2.25
Olive Oil	

№ 5121

[1569]

CASEIN — ETHANOL

 — — C_2H_6O

Solubility A, Wt. %	<i>t</i>
0.28	20

№ 5122

[533]

ЭТН. ETHANOL — VARIOUS SOLVENTS

 C_2H_6O — —

 $t = 4.5$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylenetetramine	$C_6H_{12}N_4$	50.8
Trimethyltriethylenetetramine	$C_9H_{24}N_4$	46.9
Tetramethyltriethylenetetramine	$C_{12}H_{36}N_4$	41.6
Hexamethylenediamine	$C_6H_{16}N_2$	44.5
N, N - Dimethylacetamide	C_4H_9NO	31.4
Ethylene Glycol	$C_2H_6O_2$	11.0
Triethyl Phosphate	$C_6H_{12}O_4P$	36.3

№ 5123

[533]

**DIETHYLAMINE —
ETHYLENE GLYCOL**

 $C_4H_{11}N - C_2H_6O_2$

Solubility A, Mol. %	<i>t</i>
37.1	4.5

№ 5124

[533]

**1 - AMINE - 2 - METHYLPROPANE —
ETHYLENE GLYCOL**

 $C_4H_{11}N - C_2H_6O_2$

Solubility A, Mol. %	<i>t</i>
38.1	4.5

№ 5125

[533]

2-AMINOBTJANE — ETHYLENE GLYCOL

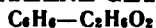
Solubility A, Mol.%	<i>t</i>
39.7	4.5

№ 5126 [1878]

ETHYLENE GLYCOL — BENZENE

Solubility A, Mol.%	<i>t</i>
0.251	29.0
0.479	47.1
0.671	56.8
0.943	67.4

№ 5127 [1110]

BENZENE — ETHYLENE GLYCOL

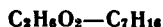
Mutual Solubility, Wt.%		<i>t</i>
A	B	
5.51	94.49	20
6.20	93.80	40
7.07	92.93	60

№ 5128 [1878]

ETHYLENE GLYCOL —**CYCLOHEXANE**

Solubility A, Mol.%	<i>t</i>
0.0380	46.1
0.0490	51.8
0.0816	62.9
0.1065	67.7
0.1418	75.2

№ 5129 [1878]

ETHYLENE GLYCOL — HEPTANE

Solubility A, Mol.%	<i>t</i>
0.0344	42.7
0.0408	47.0
0.0448	49.7
0.0672	56.6
0.0864	63.4
0.1029	67.9

№ 5130

CAMPBOR — ETHYLENE GLYCOL

[203]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
2.0	98.0	—13	4.5	95.5	27.6
3.0	97.0	5.8	5.0	95.0	32.2
3.5	96.5	14.2	6.0	94.0	42.6
4.0	96.0	21.5			

№ 5131

METHYL SULFATE – TURPENTINE OIL

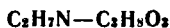
[636]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
4	96	30	68	32	105
5	95	40	76	24	100
6	94	50	84	16	90
8	92	60	87	13	80
10	90	70	89	11	70
13	87	80	91	9	60
17	83	90	92	8	50
27	73	100	93	7	40
37	63	105	95	5	30
50.5	49.5	108.2			

№ 5132

[533]

DIMETHYLAMINE – GLYCEROL

Solubility A, Mol.%	<i>t</i>
57.2	4.5

№ 5133

ETHYLENEDIAMINE – MALEIC ANHYDRIDE

[38]

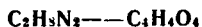


Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0	100	56.5	60	40	152
2	98	52	66.7	33.3	135
10	90	57	75	25	75
20	80	83	85	15	55
30	70	117	95	5	45
33.3	66.7	127	98	2	4
40	60	122	100	0	8.5
50	50	196			

№ 5134

ETHYLENEDIAMINE – MALEIC ACID

[38]



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0	100	130	15	85	90
3	97	120	20	80	100
5	95	116	25	75	109
10	90	102	33.3	66.7	120

Mutual Solubility, Mol.%		<i>t</i>	mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
40	60	138	80	20	80
45	55	143	87	13	26
50	50	148	90	10	4
60	40	138	94	6	6
66.7	33.3	130	97	3	7
75	25	106	100	0	8.5

№ 5135

ETHYLENEDIAMINE - 1 - BUTANOL

[37]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	-83	47.1	52.9	-26
3.0	97.0	-90	52.3	47.7	-20.5
4.8	95.2	-94	54.1	45.9	-16
7.9	92.1	-68.5	56.4	43.6	-12.5
9.0	91.0	-64.5	58.4	41.6	-10.5
15.6	84.4	-46.5	62.0	38.0	-8
25.5	74.5	-37.5	63.8	36.2	-6.5
32.5	67.5	-35.5	70.6	29.4	-1
35.6	64.4	-30.5	79.9	20.1	-3.5
37.4	62.6	-35.5	89.4	10.6	7
39.9	60.1	-36	100.0	0.0	8.5
44.8	55.2	-30			

№ 5136

ETHYLENEDIAMINE - 2 - METHYL - 1 - PROPANOL

[37]



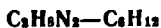
Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	-108.5	38.2	61.8	-33
2.9	97.1	-114	39.8	60.2	-34
4.0	96.0	-117	44.0	56.0	-36
7.3	92.7	-124	47.0	53.0	-29
10.0	90.0	-89.5	50.4	49.6	-19.5
14.0	86.0	-74	54.7	45.3	-13
17.9	82.1	-54.5	57.9	42.1	-11
25.6	74.4	-42.5	64.8	35.2	-6.5
28.4	71.6	-35.5	72.7	27.3	-2.5
31.9	68.1	-32.5	78.9	21.1	1
33.2	66.8	-31.5	89.6	10.4	6.5
35.8	64.2	-32	100.0	0.0	8.5



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	-104	43.7	56.3	-33
4.5	95.5	-115	49.9	50.1	-23
10.3	89.7	-88.5	50.2	49.8	-23.5
16.0	84.0	-62.5	55.0	45.0	-16.5
22.0	78.0	-53	60.3	39.7	-12
29.3	70.7	-40	65.3	34.7	-6.5
33.2	66.8	-33	72.8	27.2	-2.5
33.5	66.5	-33	81.2	18.8	1
37.3	62.7	-34	90.3	9.7	4.5
42.0	58.0	-35	100.0	0.0	8.5



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	25.5	45.9	54.1	-21
2.8	97.2	22	48.0	52.0	-23.5
4.9	95.1	17	49.7	50.3	-17.5
8.7	91.3	9.5	54.1	45.9	-14.5
13.0	87.0	1.4	58.3	41.7	-10.5
16.4	83.6	-4	59.2	40.8	-9
23.9	76.1	-19	66.3	33.7	-4
30.7	69.3	-22	73.6	26.4	-1
33.7	66.3	-21	82.2	17.8	2.5
35.3	64.7	-21	89.2	10.8	6
41.6	58.4	-21	100.0	0.0	8.5

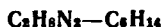


Mutual Solubility, Mol.%		t	Mutual Solubility, Mol.%		t
A	B		A	B	
2.4	97.6	50.0	58.2	41.8	86.0
10.2	89.8	86.5	68.3	31.7	82.5
20.8	79.2	91.0	77.0	23.0	75.5
40.2	59.8	88.5	82.1	17.9	69.0
50.0	50.0	88.0	90.9	9.1	47.5
54.6	45.4	86.5	96.5	3.5	15.5

№ 5140

ETHYLENEDIAMINE — HEXANE

[13]

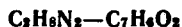


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.8	95.2	25	71.4	28.6	95.5
11.4	88.6	89.5	78.4	21.6	91.5
14.7	85.3	90.5	91.8	8.2	73.5
38.5	61.5	98.5	95.4	4.6	52.5
42.0	58.0	97.5	99.1	0.9	25
61.7	38.3	96.5			

№ 5141

ETHYLENEDIAMINE — BENZOIC ACID

[38]



Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0	100	121.4	55.9	44.1	20
6	94	119	68.5	31.5	-18
8	92	113	74	26	-23
10	90	105	75	25	-22
20	80	90	85	15	-13
25	75	125	90	10	-10
33.3	66.7	135	95	5	-7
40	60	120	98	2	-3
50	50	89	100	0	8.5
52.1	47.9	48			

№ 5142

ETHYLENEDIAMINE — o-HYDROXYBENZOIC ACID

[38]



Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0	100	156.5	66.7	33.3	6
10	90	150	75	25	-7
20	80	127	80	20	-11
25	75	102	87	13	-20
33.3	66.7	58	90	10	-12
40	60	37	94	6	-2
45	55	44	98	2	7
50	50	50	100	0	8.5
60	40	35			



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0	100	0.5	55	45	168
4	96	4	60	40	175
8	92	1	66.7	33.3	194
12	88	-1	73	25	212
15	85	-2	80	20	232
20	80	6	85	15	191
25	75	23	90	10	165
33.3	66.7	46	92	8	142
40	60	110	94	6	137
45	55	212	96	4	150
50	50	198	98	2	163
52	48	185	100	0	197

CHLORAL HYDRATE -
TURPENTINE OIL



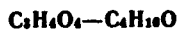
Solubility A, Wt. %	<i>t</i>
9.0	20

MALONIC ACID -
1 - PROPANOL



Mutual Solubility, Wt. %		<i>t</i>
A	B	
19.5	80.5	-18.5
20.2	79.8	-18
24.3	75.7	0
29.5	70.5	19
30.7	69.3	19.5

MALONIC ACID -
2 - METHYL - 1 - PROPANOL



Mutual Solubility Wt. %		<i>t</i>
A	B	
17.5	82.5	0
21.2	78.8	19

№ 5147

MALONIC ACID – ETHYL ETHER

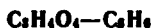
[1093]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.25	93.75	0	39.0	61.0	90
7.74	92.26	10	46.0	54.0	100
9.0	91.0	20	56.0	44.0	110
9.7	90.3	25	70.0	30.0	120
10.5	89.5	30	100.0	0.0	132
33.0	67.0	80			

№ 5148

[1989]

**MALONIC ACID –
BENZENE**

Solubility A, Wt. %	<i>t</i>
0.0014	25

№ 5149

[1772]

**CYCLOHEXANE –
PROPANENITRILE**

Solubility A, Wt. %	<i>t</i>
70.0	12.2

№ 5150

[1275]

**FORMYLGLYCINE –
1-HEPTANOL**

Solubility A, g/l	<i>t</i>	d_4^{25}
3.57	25	0.8241

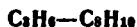
№ 5151

GLYCEROL TRINITRATE – TRINITROTOLUENE

[1917]

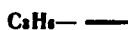


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0	100	80.5	80	20	11.2
30	70	67.0	82.3	17.7	7.1
50	50	52.0	85	15	8.5
70	30	22.0	88	12	9.8
75	25	19.0	95	5	12.0
78	22	14.7	100	0	13.3



Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>
4.8	-21	50	40.5	-10	600	8.0	20	300
9.7	-21	100	48.5	-10	700	10.8	20	400
19.1	-21	200	53.4	-10	760	13.2	20	500
28.4	-21	300	2.4	0	50	15.8	20	600
37.9	-21	400	5.0	0	100	18.4	20	700
48.0	-21	500	9.4	0	200	20.0	20	760
59.4	-21	600	14.0	0	300	0.8	40	50
69.9	-21	700	18.8	0	400	1.6	40	100
76.0	-21	760	23.5	0	500	3.2	40	200
3.2	-10	50	27.8	0	600	5.0	40	300
6.5	-10	100	31.8	0	700	6.4	40	400
13.0	-10	200	34.2	0	760	7.9	40	500
19.1	-10	300	1.4	20	50	10.0	40	600
26.0	-10	400	3.0	20	100	11.6	40	700
33.2	-10	500	5.4	20	200	12.6	40	760

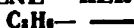
PROPYLENE - BENZENE HEADS*



$$t = 0$$

Solubility A cc/cc B	<i>P</i>	Solubility A cc/cc B	<i>P</i>
3.6	50	29.4	500
7.2	100	33.6	600
13.0	200	38.0	700
19.0	300	40.4	760
24.4	400		

* Top-product had b.p. 50 - 90°, the greater part had been distilled at 60 - 70°.



Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P
3.0	-21	50	26.0	-10	600	5.0	20	300
5.5	-21	100	30.5	-10	700	7.0	20	400
10.5	-21	200	33.0	-10	760	8.5	20	500
15.5	-21	300	2.0	0	50	10.3	20	600
21.0	-21	400	3.0	0	100	12.0	20	700
27.5	-21	500	6.0	0	200	13.8	20	760
35.0	-21	600	9.0	0	300	0.8	40	50
42.1	-21	700	12.0	0	400	1.0	40	100
76.1	-21	760	15.0	0	500	2.0	40	200
2.5	-10	50	18.0	0	600	3.0	40	300
4.5	-10	100	21.0	0	700	4.5	40	400
8.5	-10	200	23.0	0	760	5.5	40	500
13.0	-10	300	1.0	20	50	6.5	40	600
17.0	-10	400	1.8	20	100	7.8	40	700
21.5	-10	500	3.0	20	200	8.5	40	760



t = 0

Solubility A cc/cc B	P	Solubility A cc/cc B	P
1.4	50	17.4	500
2.8	100	21.6	600
7.8	200	25.7	700
9.4	300	28.2	760
13.3	400		



Mutual Solubility, Wt. %			t	Mutual Solubility, Wt. %		t
A	pu ml	B		A	B	
4.18		95.82	0	10.34	89.66	40
5.38		94.62	10	12.80	87.20	50
6.81		93.19	20	15.27	84.73	58
8.38		91.62	30			

* Kerosene from BAKU oil field; d_4^{20} 0.834, b.p. 140 - 210° at p 737 mm.

** Heavy solvent; b.p. 150 - 250°, containing approximately equal quantities of olefin, aromatic and naphthenic hydrocarbons.

№ 5157

[1662]

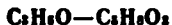
PROPANE – ACETONE
 $C_3H_8 - C_3H_6O$

Solubility A cc/g B	<i>t</i>	<i>P</i>
11.76	20	760

№ 5158

ACETONE – GLYCEROL

[1266]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
10.90	89.10	9.5	51.28	48.72	95.6
15.77	84.23	44.8	53.07	46.93	95.7
20.40	79.60	66.6	55.34	44.66	95.6
26.58	73.42	81.3	56.59	43.41	95.5
29.24	70.76	85.3	57.25	42.75	95.5
34.74	65.26	90.9	64.47	35.53	93.5
44.67	55.33	95.2	67.42	32.58	91.7
45.75	54.25	95.3	76.96	23.04	81.3
46.31	53.69	95.3	86.93	13.07	58.5
48.43	51.57	95.5	89.61	10.39	40.0

№ 5159

[1996]

**MALEIC ACID –
ACETONE**



Solubility A, Wt. %	<i>t</i>
20.0	20

№ 5160

[1996]

**FUMARIC ACID –
ACETONE**



Solubility A, Wt. %	<i>t</i>
1.27	20

№ 5161

[1996]

**SUCCINIC ACID –
ACETONE**



Solubility A, g/l	<i>t</i>
38.6	20

№ 5162 **ACETONE -** [1702]
ETHYL ETHER
 $C_2H_6O - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
100	0.0	-95.6
81.1	18.9	-102.7
60.8	39.2	-109.2
39.2	60.8	-116.8
11.0	89.0	-125.5
0.0	100.0	-123.4

№ 5163 **1, 2, 3, 4 - PENTANETETROL TETRANITRATE - ACETONE** [1977]
 $C_5H_8N_4O_{13} - C_2H_6O$

Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	T ₁ A	B	<i>t</i>
12.56	87.44	0	23.41	76.59	40
14.11	85.89	10	26.56	73.44	50
16.85	83.15	20	29.91	70.09	62
19.97	80.03	30			

№ 5164 [1624]
1, 2, 3, 4 - PENTANETETROL
TETRANITRATE - ACETONE
 $C_5H_8N_4O_{13} - C_2H_6O$

Solubility A, Wt. %	<i>t</i>
17.22	15
19.90	20
23.41	25
25.67	30
31.00	40
37.01	50

№ 5165 **d - GLUTAMIC ACID -** [1520]
ACETONE
 $C_5H_9NO_4 - C_2H_6O$

Solubility A, g/l.	<i>t</i>
0.006	25

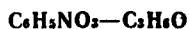
№ 5166 **NITROPHENOLS - ACETONE** [404]
 $C_6H_5NO_2 - C_2H_6O$

Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
O - A	B	<i>t</i>	m - A	B	<i>t</i>
50.60	49.40	0.2	62.95	37.05	0.2
56.79	43.21	6.0	65.63	34.37	10.1
62.48	37.52	11.5	69.08	30.92	25.0
67.88	32.12	16.1	71.85	28.15	34.5
70.50	29.50	20.1	75.08	24.92	43.0
79.97	20.03	26.1	80.87	19.13	55.2
84.98	15.02	30.3	84.21	15.79	63.0
92.50	7.50	36.5	90.05	9.95	74.5
			92.88	7.12	84.0

№ 5167

p - NITROPHENOL — ACETONE

[464]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
66.99	33.01	0.0	76.63	23.37	50.4
67.15	32.85	10.1	80.16	19.84	61.7
69.66	30.34	24.6	84.54	15.46	75.2
72.43	27.57	33.2	88.78	11.22	85.6
74.97	25.03	41.2	92.30	7.70	97.0

№ 5168

ACETONE — BENZENE

[2123]

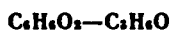


Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
100.0	0.0	—94.8	52.0	48.0	—25.0
96.6	3.4	—96.0	38.4	61.6	—15.0
89.9	10.1	—87.0	21.3	78.7	—5.0
86.0	14.0	—72.0	0.0	100.0	5.1
69.1	30.9	—40.0			

№ 5169

1, 4 - BENZENEDIOL — ACETONE

[2013]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
11.30	88.70	20	44.30	55.70	100
15.00	85.00	30	48.35	51.65	110
18.95	81.05	40	52.75	47.25	120
23.45	76.55	50	58.18	41.82	130
30.90	69.10	60	64.90	35.10	140
35.22	64.78	70	72.71	27.29	150
37.60	62.40	80	82.30	17.70	160
40.58	59.42	90	100.00	0.00	172

№ 5170

1, 2, - BENZENEDIOL – ACETONE

[2013]

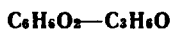


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
50.08	49.92	20	66.42	33.58	70
52.20	47.80	30	77.65	22.35	80
54.48	45.52	40	80.85	19.65	90
57.58	42.42	50	93.00	7.00	100
61.55	38.45	60	100.00	0.00	104.5

№ 5171

1, 3, - BENZENEDIOL – ACETONE

[2013]

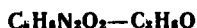


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
51.55	48.45	20	65.25	34.75	70
53.94	46.06	30	71.21	28.79	80
56.20	43.80	40	79.60	20.40	90
58.63	41.37	50	89.35	10.65	100
61.38	38.62	60	100.00	0.00	109.4

№ 5172

m - NITROANILINE – ACETONE

[519]



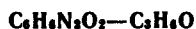
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
19.5	80.5	25	43.7	56.3	70
21.7	78.3	30	52.4	47.6	80
26.3	73.7	40	64.1	35.9	90
31.2	68.8	50	78.9	21.1	100
36.9	63.1	60	96.8	3.2	110

№ 5173

[519]

**o - NITROANILINE –
ACETONE**

Mutual Solubility, Mol.%		<i>t</i>
A	B	
40.0	60.0	25
44.6	55.4	30
54.5	45.5	40
65.6	34.4	50
79.2	20.8	60

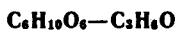


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
23.8	76.2	50	45.1	54.9	100
26.5	73.5	60	53.2	46.8	110
29.7	70.3	70	63.0	37.0	120
33.5	66.5	80	88.8	11.2	140
38.6	61.4	90			

№ 5175

[1975]

d-MANNONIC LACTONE - 2-PROPEN-1-OL



<i>d</i> -A		<i>d</i> -A	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.214	46.4	0.0806	42.0
0.249	49.7	0.0964	46.6
0.319	55.1	0.127	53.0
0.402	60.4	0.156	57.7
0.462	63.4	0.192	62.0
		0.246	67.6

№ 5176

[1975]

1-RHAMNOSE -
2-PROPEN-1-OL

Mutual Solubility, Mol. %		<i>t</i>
A	B	
3.89	96.11	35.8
5.91	94.09	46.1
9.68	90.32	54.5
13.50	86.50	60.5
15.68	84.32	62.4

№ 5177

[1975]

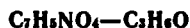
d-MANNOSE - 2-PROPEN-1-OL



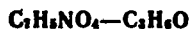
α -A		β -A	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.322	48.2	0.234	47.2
0.377	52.0	0.280	51.8
0.436	55.3	0.391	58.4
0.453	56.5	0.508	65.0
0.668	66.6	0.583	68.2

d-MANNITOL - 2-PROPEN-1-OL

Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0296	55.9	0.0854	75.0
0.0352	59.4	0.112	79.7
0.0460	63.6	0.141	84.7
0.0627	69.3		

m-NITROBENZOIC ACID - ACETONE

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
11.0	89.0	0	46.3	53.7	80
15.2	84.8	10	52.2	47.8	90
19.3	80.7	20	58.5	41.5	100
23.4	76.6	30	65.6	34.4	110
27.1	72.9	40	76.1	23.9	120
31.9	68.1	50	87.2	12.8	130
36.1	63.9	60	100.0	0.0	142.4
41.0	59.0	70			

o-NITROBENZOIC ACID - ACETONE

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
24.44	75.56	30	52.8	47.2	100
26.7	73.3	40	59.8	40.2	110
30.1	69.9	50	68.2	31.8	120
34.4	65.6	60	77.7	22.3	130
37.3	62.7	70	89.4	10.6	140
41.7	58.3	80	100.0	0.0	147.7
46.8	53.2	90			

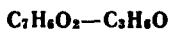


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
36.31	63.69	0	69.51	30.49	40
39.76	60.24	5	73.61	26.39	45
43.82	56.18	10	77.58	22.42	50
47.92	52.08	15	81.78	18.22	55
52.15	47.85	20	85.71	14.29	60
56.88	43.12	25	89.40	10.60	65
60.94	39.06	30	93.10	6.90	70
65.15	34.85	35	96.40	3.60	75

№ 5182

[1401]

**BENZOIC ACID -
ACETONE**

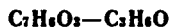


Mutual Solubility, Mol. %		<i>t</i>
A	B	
15.8	84.2	0
20.5	79.5	20
26.9	73.1	40
36.2	63.8	60

№ 5183

[2015]

**m - HYDROXYBENZOIC ACID -
ACETONE**



Solubility A, g/l	<i>t</i>
260	23

№ 5184

[2015]

**p - HYDROXYBENZOIC ACID -
ACETONE**



Solubility A, g/l.	<i>t</i>
226	23

№ 5185

[156]

**ACETONE - LUPININE
HYDROCHLORIDE**



Solubility A, Wt. %	<i>t</i>
0.0728	0
0.1247	20
0.2296	56.5

№ 5186

[1975]

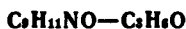
α - METHYL - d - MANNOSIDE - 2 - PROPEN - 1 - OL
 $C_7H_{14}O_6 - C_3H_6O$

Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.197	46.2	0.389	60.5
0.228	49.4	0.434	63.2
0.274	53.3	0.578	70.3
0.343	58.55		

№ 5187

o - ACETOTOLUIDE - ACETONE

[854]

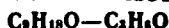


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
8.7	91.3	25	40.5	59.5	70
10.8	89.2	30	46.6	53.4	75
13.2	86.8	35	53.0	47.0	80
15.5	84.5	40	59.7	40.3	85
18.4	81.6	45	66.4	33.6	90*
31.9	68.1	50	73.8	26.2	95
25.7	74.3	55	81.8	18.2	100
30.2	69.8	60	90.5	9.5	105
35.1	64.9	65	100.0	0.0	110.3

№ 5188

[935]

2 - NONANONE - ACETONE

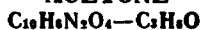


Mutual Solubility, wt. %		<i>t</i>
A	B	
21.3	78.7	-40
41.2	58.8	-30
67.9	32.1	-20
94.0	6.0	-10

№ 5189

[183]

1, 5 - DINITRONAPHTHALENE - ACETONE

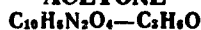


Solubility A, Wt. %	<i>t</i>
0.276	0
0.435	18
0.915	55

№ 5190

[183]

1, 8 - DINITRONAPHTHALENE - ACETONE



Solubility A, Wt. %	<i>t</i>
1.00	0
3.46	18
7.05	55

№ 5191

NAPHTHALENE - ACETONE

[2024]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
24.24	75.76	6.3	72.12	27.88	52.9
30.26	69.74	14.3	78.47	21.53	58.5
39.35	60.65	24.2	83.24	16.76	62.7
48.56	51.44	32.6	88.08	11.92	67.2
56.02	43.98	39.3	90.25	9.75	69.5
65.66	34.34	47.2			

№ 5192

[156]

 ACETONE - ANABASINE
 HYDROCHLORIDE
 $C_3H_6O - C_{10}H_{15}N_2Cl$

Solubility A, Wt. %	<i>t</i>
0.0963	0
0.1721	20
0.2773	56.5

№ 5193

[156]

 ACETONE - ANABASINE
 HYDRIODIDE
 $C_3H_6O - C_{10}H_{15}N_2I$

Solubility A, Wt. %	<i>t</i>
0.1263	0
0.2057	20
0.4630	56.5

№ 5194

[1772]

 ACETONE - 2, 7-DIMETHYLOCTANE
 $C_3H_6O - C_{10}H_{22}$

Solubility A, Wt. %	<i>t</i>
47.5	-3.8

№ 5195

[496]

 CARBAZOLE - ACETONE
 $C_{12}H_9N - C_3H_6O$

Mutual Solubility Wt. %		<i>t</i>
A	B	
5.77	94.23	15.5
8.88	91.12	30
38.39	61.61	50

№ 5196

[1401]

 FLUORENE - ACETONE
 $C_{12}H_{10} - C_3H_6O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.0	98.0	0
4.7	95.3	20
10.4	89.6	40
15.0	85.0	50

№ 5197 [935]
2-TRIDECANONE – ACETONE
 $C_{13}H_{26}O - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.1	99.9	-20
4.6	95.4	-10
18.6	81.4	0
50.0	50.0	10
83.3	16.7	20

№ 5198 [840]
DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) – ACETONE
 $C_{14}H_9Cl_5 - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
21.2	78.8	0.0
27.3	72.7	7.2
40.3	59.7	24.0
59.0	41.0	48.0

№ 5199 [496]
ANTHRACENE – ACETONE
 $C_{14}H_{10} - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.55	99.45	15.5
1.40	98.60	30
2.42	97.58	50

№ 5200 [496]
PHENANTHRENE – ACETONE
 $C_{14}H_{10} - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
13.10	86.90	15.5
18.30	81.70	30

№ 5201 [887]
PHENANTHRENE – ACETONE
 $C_{14}H_{10} - C_2H_6O$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
13.57	86.43	-10	29.82	70.18	15
16.67	83.33	- 5	34.18	65.82	20
20.32	79.68	0	38.84	61.16	25
23.68	76.32	5	43.65	56.35	30
26.76	73.24	10			

№ 5202 [156]

**ACETONE – APHILIDINE
CHLOBOHYDRATE**
 $C_3H_6O - C_{15}H_{23}N_2ClO$

Solubility A, Wt. %	<i>t</i>
0.3204	0
0.3608	20
0.8079	56.5

№ 5203 [156]

**ACETONE – APHILIDINE
IODOHYDRATE**
 $C_3H_6O - C_{15}H_{23}N_2IO$

Solubility A, Wt. %	<i>t</i>
0.3068	0
0.3617	20
0.4189	56.5

№ 5204 [20]

**ACETONE – SCARLET DYE
J FOR SILK ACETATE**



Solubility B, Wt. %	<i>t</i>
2.16	20

№ 5205 [20]

**ACETONE – BLUE DYE K
FOR SILK ACETATE**



Solubility B, Wt. %	<i>t</i>
0.24	20

№ 5206 [20]

**ACETONE – SUDAN
YELLOW DYE U**
 $C_3H_6O - C_{18}H_{18}N_4O$

Solubility B, Wt. %	<i>t</i>
0.304	20

№ 5207 [20]

**ACETONE – CYANINE·
DYE GREEN 5G**



Solubility B, Wt. %	<i>t</i>
0.17	20

№ 5208 [637]

2 - UNDECYL BENZOTHAZOLE –

ACETONE
 $C_{18}H_{27}NS - C_3H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
<1	>99	-30
2.6	97.4	-20
12.5	87.5	-10
39.4	60.6	0
72.2	27.8	10
Completely miscible		20

№ 5209 [932]

9, 12 - OCTADECADIENOIC

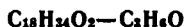
ACID – ACETONE
 $C_{18}H_{32}O_2 - C_3H_6O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
3.2	96.8	-50
7.9	92.1	-40
21.4	78.6	-30
59.5	40.5	-20
92.3	7.7	-10
Completely miscible		0

№ 5210

9 - OCTADECENOIC ACID - ACETONE

[932]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.5	99.5	—40	61.4	38.6	0
1.4	98.6	—30	89.7	10.3	10
4.9	95.1	—20	Completely miscible я		20
21.5	78.5	—10			

№ 5211

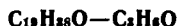
[1825]

CINCHONINE - ACETONE

Solubility A, Wt. %	<i>t</i>
0.091	25

№ 5212

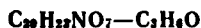
[935]

2 - NONADECANONE - ACETONE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.2	99.8	20
3.0	97.0	30
24.4	75.6	40
87.7	12.3	50

№ 5213

[839]

NARCOTINE - ACETONE

Solubility A, g/l.	<i>t</i>
419.6	15

№ 5214

[874]

QUININE - ACETONE

Solubility A, g/l.	<i>t</i>
23.2	15

№ 5215

QUININE IODOBISMUTHATE – ACETONE

[1544]



Mutual Solubility, Wt. %						<i>t</i>
Upper layer			Lower layer			
A	B	d_4^t	A	B	d_4^t	
3.23	96.77	0.8159	63.9	36.1	1.473	9
2.44	97.56	0.8063	67.9	32.1	1.544	19
1.93	98.07	0.7981	71.6	28.4	1.609	29
1.41	98.59	0.7882	73.6	26.4	1.673	39
1.03	98.97	0.7793	75.2	24.8	1.732	49

№ 5216

[874]

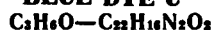
STRYCHNINE – ACETONE



Solubility A, g/l	<i>t</i>
1.32	15

№ 5217

[20]

ACETONE – SUDAN
BLUE DYE U

Solubility B, Wt. %	<i>t</i>
0.19	20

№ 5218

[20]

ACETONE – SUDAN

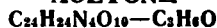
RED DYE 7V



Solubility B, Wt. %	<i>t</i>
1.5	20

№ 5219

[1291]

CODEINE PICRATE –
ACETONE

Solubility A, Wt. %	<i>t</i>
3.89	20

№ 5220

[637]

2-HEPTADECYLBENZOTHAZOLE –



Mutual Solubility Wt. %		<i>t</i>
A	B	
<1	>99	10
3.3	96.7	20
45.4	54.6	30
Completely miscible		40

№ 5221 **THEBAINE** [1291]
PICRATE – ACETONE
 $C_{25}H_{24}N_4O_{10} - C_3H_6O$

Solubility A, Wt. %	<i>t</i>
10.1	20

№ 5222 **PAPAVERINE** [1291]
PICRATE – ACETONE
 $C_{28}H_{24}N_4O_{11} - C_3H_6O$

Solubility A, Wt. %	<i>t</i>
1.81	20

№ 5223 [20]

ACETONE – ACID DYE
BRIGHT GREEN J
 $C_2H_6O - C_{27}H_{24}N_2O_6S_2Na$

Solubility A, Wt. %	<i>t</i>
0.19	20

№ 5224 [1628]
GLYCEROL HEXANOATE DIOCTADECANOATE – ACETONE
 $C_{48}H_{94}O_8 - C_3H_6O$
t = 29

A	Solubility A, g/l.
Glycerol 1 - Decanoate - 2, 3 - Dioctadecanoate	394.5
" 2 - " - 1, 3 - "	25.7

№ 5225 [1628]
GLYCEROL HEXADECANOATE
DIOCTADECANOATE – ACETONE
 $C_{55}H_{106}O_8 - C_3H_6O$
t = 27.5

A	Solubility A, g/l.
Glycerol 1 - Hexadecanoate - 2, 3 - Dioctadecanoate	18.2
" 2 - " - 1, 3 - "	6.1

№ 5226 **GLYCEROL TRIOCTADECANOATE — [934]**
ACETONE $C_{57}H_{119}O_8 - C_3H_8O$

Solubility A, Wt. %	<i>t</i>		
	α - -form	β' - -form	β - -form
3.4	46.5	54.5	64.0
20.1	50.2	58.7	68.0
40.2	51.0	60.0	69.0
61.5	51.8	61.0	70.0
81.6	52.8	62.4	71.2
100.0	54.0	64.5	73.0

NOTE: Data computed from the article graph

№ 5227 **ACETONE — [158]**
APHILINE CHLOROHYDRATE
 $C_8H_9O -$ ———

Solubility B Wt. %	<i>t</i>
0.0146	0
0.0344	20
0.1357	56.5

№ 5228 **[1772]**
UREIDOACETIC ACID —
1 - BUTANOL
 $C_8H_9N_2O_3 - C_4H_{10}O$

Solubility A, g/l.	<i>t</i>
0.76	25

№ 5229 **[1275]**
UREIDOACETIC ACID — VARIOUS SOLVENTS
 $C_8H_9N_2O_3 -$ ———
t = 25

Solvent		Solubility A, g/l.	d_4^{25}
Name	Formula		
Water	H ₂ O	38.8	1.0112
Formamide	CH ₃ NO	98.8	1.15405
Methanol	CH ₄ O	9.49	0.79178
Acetone	C ₃ H ₆ O	0.26	0.78566
Ethanol	C ₂ H ₆ O	2.8	0.7865

№ 5230 [1976]
TRINITROTRIMETHYLENETRIAMINE -
ETHYL ACETATE
 $C_3H_5N_3O_9 - C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
0.050	10
0.055	20
0.075	30
0.090	34

№ 5231 [1976]
TRINITROTRIMETHYLENETRIAMINE -- 3 - METHYL -
1 - BUTANOL $C_3H_5N_3O_9 - C_8H_{18}O$

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.020	0	0.110	50	1.325	100
0.023	10	0.210	60	1.900	110
0.026	20	0.320	70	2.99	120
0.040	30	0.500	80	3.870	131.6
0.060	40	0.850	90		

№ 5232 [1976]
TRINITROTRIMETHYLENETRIAMINE - BENZENE
 $C_3H_5N_3O_9 - C_6H_6$

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.020	10	0.115	50
0.045	20	0.195	60
0.055	30	0.300	70
0.085	40	0.400	79.5

№ 5233 [1976]
TRINITROTRIMETHYLENETRIAMINE - TOLUENE
 $C_3H_5N_3O_9 - C_7H_8$

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.016	0	0.050	40	0.295	80
0.018	10	0.085	50	0.465	90
0.020	20	0.125	60	0.640	100
0.025	30	0.210	70	0.980	110

№ 5234

[1662]

**PROPANE – N, N-DIMETHYL-
FORMAMIDE**
 $C_3H_8-C_2H_7NO$

Solubility A cc, g B	<i>t</i>	<i>P</i>
5.68	20	760

№ 5235 **ETHYL CARBAMATE – 1-PROPANOL** [1862]

Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B		
25.93	74.07	0	0.880
39.76	60.24	10	0.906
51.22	48.78	15	0.923
60.00	40.00	20	0.942
68.75	31.25	25	0.963
76.02	23.98	30	0.983
89.13	10.87	40	1.025

№ 5236

[585]

ALANINE – PYRIDINE
 $C_3H_7NO_2-C_5H_5N$

Solubility A, Wt. %	<i>t</i>
0.16	20

№ 5237

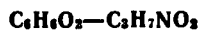
[585]

ETHYL CARBAMATE – PYRIDINE
 $C_2H_7NO_2-C_5H_5N$

Solubility A, Wt. %	<i>t</i>
17.57	20

№ 5238

[1401]

1, 3 - BENZENEDIOL - ETHYL CARBAMATE

Mutual Solubility, wt. %		<i>t</i>
A	B	
52.06	47.94	40
61.39	38.61	60
72.58	27.42	80
87.92	12.08	100

№ 5239

ETHYL CARBAMATE - TOLUENE

[1862]



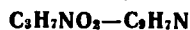
Mutual Solubility, Wt. %		<i>t</i>	d_4^t
A	B		
1.67	98.33	0	0.887
5.66	94.34	10	0.874
9.09	90.91	15	0.875
15.25	84.75	20	0.883
31.03	68.97	25	0.902
48.72	51.28	30	0.927
86.11	13.89	40	0.995

№ 5240

ACETANILIDE - [1401]**ETHYL CARBAMATE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
14.8	85.2	40
27.4	72.6	60
46.8	53.2	80
75.7	24.3	100

№ 5241

ETHYL [1569]**CARBAMATE - QUINOLINE**

Solubility A, Wt. %	<i>t</i>
8.86	20

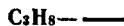
**PHENYL HYDROXYBENZOATE – ETHYL
CARBAMATE** $C_{15}H_{10}O_3 - C_2H_7NO_2$

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0	100	48.5	60	40	34
10	90	47	70	30	30
20	80	44	80	20	31
30	70	41.5	86	14	29
40	60	39	90	10	36.5
50	50	36.5	100	0	42

PROPANE – 2-PROPANOL
 $C_3H_8 - C_3H_8O$

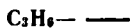
Solubility A, Mol.%	<i>t</i>	<i>p</i>	Solubility A, Mol.%	<i>t</i>	<i>p</i>
0.000	0	7.8	2.317	25	626.7
5.804	0	754.9	2.783	25	760.5
0.000	25	43.5	0.000	50	177.0
1.830	25	507.9	1.423	50	754.7

PROPANE – HYDROCARBON BLENDS* (CRYSTAL OIL, MOL.WT.337)



Solubility A cc/2 B	<i>t</i>	<i>P</i> _{abs.} at	Solubility A cc/2 B	<i>t</i>	<i>P</i> _{abs.} at	Solubility A cc/2 B	<i>t</i>	<i>P</i> _{abs.} at
24.83	21.1	2.27	72.92	37.8	6.83	31.84	71.1	6.87
38.07	21.1	3.08	88.06	37.8	7.59	48.34	71.1	9.39
52.38	21.1	3.79	103.5	37.8	8.24	64.48	71.1	11.44
66.16	21.1	4.41	118.3	37.8	8.81	81.42	71.1	13.24
81.17	21.1	4.95	133.0	37.8	9.28	98.80	71.1	14.81
95.63	21.1	5.42	12.68	60.0	2.73	110.1	71.1	16.17
109.6	21.1	5.79	27.70	60.0	5.14	9.66	93.3	3.52
124.6	21.1	6.13	42.93	60.0	7.16	20.01	93.3	6.60
139.1	21.1	6.42	58.28	60.0	8.80	30.50	93.3	9.36
13.80	37.8	2.02	74.35	60.0	10.38	41.24	93.3	11.87
28.87	37.8	3.64	90.67	60.0	11.70	52.06	93.3	14.18
43.58	37.8	4.92	107.5	60.0	12.88	63.61	93.3	16.36
57.96	37.8	5.93	15.53	71.1	3.83	75.34	93.3	18.39

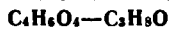
See Footnote To Table 4833



Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>
5.0	-21	50	38.5	-10	600	8.0	20	300
10.0	-21	100	44.0	-10	700	10.0	20	400
19.0	-21	200	47.4	-10	760	12.0	20	500
28.0	-21	300	2.5	0	50	14.0	20	600
38.0	-21	400	4.5	0	100	16.0	20	700
48.0	-21	500	9.0	0	200	17.2	20	760
58.0	-21	600	14.0	0	300	0.2	40	50
67.5	-21	700	18.0	0	400	0.9	40	100
72.8	-21	760	22.5	0	500	2.0	40	200
4.0	-10	50	26.5	0	600	4.0	40	300
7.0	-10	100	31.3	0	700	5.0	40	400
13.0	-10	200	33.8	0	760	6.0	40	500
19.0	-10	300	1.5	20	50	7.5	40	600
26.0	-10	400	3.0	20	100	9.0	40	700
32.5	-10	500	5.0	20	200	10.0	40	760

SUCCINIC ACID -

1-PROPANOL

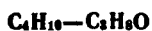


Solubility A, Wt. %	<i>t</i>
2.07	-1
4.57	21, 5
7.00	39

* Cracked gasoline contained 30% unsaturated hydrocarbons, and had b.p. 61.8 - 200° at *p* 750 mm.

№ 5247

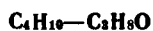
[1143]

BUTANE – 2 - PROPANOL

Solubility A, Mol. %	<i>t</i>	<i>p</i>
5.285	25	430.2
7.755	25	579.5
11.056	25	752.7
0.00	35	78.7
7.531	35	760.3
4.149	50	752.1

№ 5248

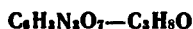
[1143]

**2 - METHYLPROPANE –
2 - PROPANOL**

Solubility A, Mol. %	<i>t</i>	<i>p</i>
2.758	25	355.0
4.441	25	525.6
6.930	25	753.1
4.984	35	761.0
2.977	50	762.0

№ 5249

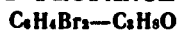
[175]

**PICRIC ACID –
1 - PROPANOL**

Solubility A, Wt. %	<i>t</i>
3.67	22

№ 5250

[1751]

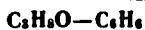
**p - DIBROMOBENZENE –
1 - PROPANOL**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
27	73	50
40	60	60
67	33	70
85	15	75
95	5	80

№ 5251

1 - PROPANOL – BENZENE

[2070]



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
66.3	33.7	–9.0	40.6	59.4	–1.2
54.9	45.1	–4.4	35.3	64.7	–0.3
51.9	48.1	–3.6	28.2	71.8	0.8
46.4	53.6	–2.3			

№ 5252

[175]

**CITRIC ACID –
1 - PROPANOL**
 $C_6H_8O_7 - C_3H_8O$

Solubility A, Wt. %	<i>t</i>
38.6	19

№ 5253

[1975]

**d - MANNONIC LACTONE –
1 - PROPANOL**
 $C_6H_{10}O_6 - C_3H_8O$

d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.0849	42.2	0.0476	45.9
0.105	47.3	0.0679	53.9
0.158	55.3	0.123	65.4
0.243	64.6	0.157	71.4
0.295	68.6		

№ 5254

[1975]

**d - MANNONIC LACTONE –
2 - PROPANOL**
 $C_6H_{10}O_6 - C_3H_8O$

d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.109	43.8	0.0607	45.6
0.163	51.6	0.0935	55.4
0.214	57.4	0.121	61.1
0.293	64.4	0.146	65.3
0.347	67.9	0.181	69.7

№ 5255

[1975]

**1 - RHAMNOSE –
1 - PROPANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_3H_8O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.37	97.63	31.0
3.21	96.79	40.0
4.24	95.76	46.1
5.70	94.30	51.2
7.44	92.56	56.5
9.36	90.64	61.1
11.06	88.94	63.2

№ 5256

[1975]

**1 - RHAMNOSE –
2 - PROPANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_3H_8O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.92	97.08	36.8
3.90	96.10	44.5
5.10	94.90	49.3
5.42	94.58	53.8
6.97	93.03	55.3
9.67	90.33	61.2

№ 5257

[1975]

**d - MANNOSE -
1 - PROPANOL**
 $C_6H_{12}O_6 - C_3H_8O$

α - A		β - A	
Solubility Mol.%	<i>t</i>	Solubility Mol.%	<i>t</i>
0.129	41.3	0.123	48.7
0.164	47.1	0.149	53.0
0.247	56.4	0.192	59.8
0.289	60.0	0.249	65.6
0.319	63.1	0.305	70.3
0.394	68.4	0.417	75.7

№ 5258

[1975]

**d - MANNOSE -
2 - PROPANOL**
 $C_6H_{12}O_6 - C_3H_8O$

α - A		β - A	
Solubility Mol.%	<i>t</i>	Solubility Mol.%	<i>t</i>
0.131	40.2	0.130	47.1
0.191	49.3	0.159	51.7
0.226	52.3	0.206	58.3
0.296	57.7	0.249	62.4
0.320	59.3	0.311	67.6
0.386	64.2	0.370	71.1

№ 5259

[1975]

d - MANNITOL - 1 - PROPANOL
 $C_6H_{14}O_6 - C_3H_8O$

Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.0193	58.8	0.0631	78.6
0.0236	61.5	0.108	89.2
0.0328	67.3	0.122	90.9
0.0474	73.7	0.174	97.7

№ 5260

[1975]

**d - MANNITOL -
2 - PROPANOL**
 $C_6H_{14}O_6 - C_3H_8O$

Solubility A, Mol.%	<i>t</i>
0.0180	55.2
0.0224	59.5
0.0318	65.7
0.0459	69.5
0.0775	79.3
0.0882	81.5

№ 5261

[1975]

**BENZOIC ACID -
1 - PROPANOL**
 $C_7H_6O_2 - C_3H_8O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
14.5	85.5	-18
15.7	84.3	-13
23.1	76.9	3
28.2	71.8	19.2
29.8	70.2	23

№ 5262 [1975]

**α -METHYL - d - MANNOSIDE -
1-PROPANOL
 $C_7H_{14}O_6 - C_3H_8O$**

Solubility A, Mol. %	<i>t</i>
0.077	45.8
0.099	48.9
0.148	54.6
0.194	60.1
0.269	68.1
0.384	75.3

№ 5263

[1975]

**α -METHYL - d - MANNOSIDE - 2-PROPANOL
 $C_7H_{14}O_6 - C_3H_8O$**

Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0876	46.3	0.253	65.7
0.129	51.6	0.275	68.0
0.164	57.3	0.360	73.8
0.206	60.8	0.484	79.7

№ 5264

[175]

**dl - MANDELIC ACID -
1-PROPANOL
 $C_9H_8O_2 - C_3H_8O$**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
35	65	0
43	57	16.5

№ 5265

[175]

**p - METHOXYBENZOIC ACID -
1-PROPANOL
 $C_9H_8O_2 - C_3H_8O$**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
35	65	0
43	57	16.5

№ 5266

[175]

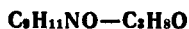
**OCTANEDIOIC ACID -
1-PROPANOL
 $C_8H_{14}O_4 - C_3H_8O$**

Solubility A, Wt. %	<i>t</i>
12.2	4

№ 5267

o-ACETOTOLUIDE – 1-PROPANOL

[854]

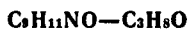


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
12.0	88.0	30	47.9	52.1	75
14.4	85.6	35	54.3	45.7	80
17.0	83.0	40	61.0	39.0	85
20.0	80.0	45	67.2	32.8	90
23.5	76.5	50	74.1	25.9	95
27.6	72.4	55	81.6	18.4	100
32.3	67.7	60	90.0	10.0	105
37.0	63.0	65	100.0	0.0	110.3
42.3	57.7	70			

№ 5268

o-ACETOTOLUIDE – 2-PROPANOL

[854]

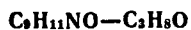


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
9.3	90.7	30	45.5	54.5	75
11.6	88.4	35	52.0	48.0	80
14.0	86.0	40	58.6	41.4	85
16.8	83.2	45	65.8	34.2	90
20.1	79.9	50	73.5	26.5	95
23.9	76.1	55	81.7	18.3	100
28.5	71.5	60	90.3	9.7	105
33.5	66.5	65	100.0	0.0	110.3
39.2	60.8	70			

№ 5269

p-ACETOTOLUIDE – 1-PROPANOL

[1553]

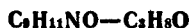


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
9.539	90.461	56.9	54.52	45.48	118.9
20.42	79.58	81.3	61.32	38.68	123.8
31.27	68.73	95.6	88.59	11.41	139.1
43.35	56.65	108.0	100.0	0.0	148.5
53.72	46.28	117.2			

№ 5270

p-ACETOTOLUIDE – 2-PROPANOL

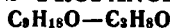
[1553]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
3.787	96.213	32.2	43.01	56.99	110.1
10.38	89.62	62.9	58.35	41.65	122.3
20.72	79.28	87.4	68.15	31.85	129.3
25.67	74.33	91.0	100.0	0.0	148.5
29.01	70.99	93.6			

№ 5271

[935]

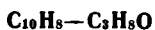
2-NONANONE –**2-PROPANOL**

Mutual Solubility, Wt.%		<i>t</i>
A	B <small>в сн</small>	
0.5	99.5	—40
8.0	92.0	—30
39.0	61.0	—20
90.8	9.2	—10

№ 5272

NAPHTHALENE – 1-PROPANOL

[1862]



Mutual Solubility, Wt.%		<i>t</i>	d_4^t	Mutual Solubility, Wt.%		<i>t</i>	d_4^t
A	B			A	B		
4.35	95.65	0	0.8285	14.89	85.11	40	0.823
5.57	94.43	10	0.824	25.93	74.07	50	0.837
7.83	92.17	20	0.821	50.00	50.00	60	0.867
9.09	90.91	25	0.820	61.53	38.47	65	0.897
10.71	89.29	30	0.820	78.31	21.69	68.5	0.933

№ 5273

NAPHTHALENE - 1 - PROPANOL

[1901]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
9.62	90.38	22.9	33.71	66.29	53.8
11.43	88.57	27.9	45.22	54.78	59.3
15.59	84.41	36.0	70.20	29.80	66.9
19.44	80.56	41.7	79.88	20.12	69.5
27.49	72.51	49.8			

№ 5274

NAPHTHALENE - 2 - PROPANOL

[1901]

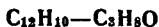


Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
7.597	92.403	24.4	33.02	66.98	54.9
9.936	90.064	30.9	46.26	53.74	60.2
13.61	86.39	37.8	66.07	33.93	63.8
19.36	80.64	45.2	81.27	18.73	69.9
27.30	72.70	51.7			

№ 5275

ACENAPHTHENE - 1 - PROPANOL

[1862]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.88	99.12	0	2.90	97.10	40
1.00	99.00	10	4.40	95.60	50
1.35	98.65	20	8.20	91.80	60
1.90	98.10	30	16.20	83.80	70

№ 5276

[935]

**2 - TRIDECANONE -
2 - PROPANOL**
 $C_{13}H_{26}O-C_3H_7O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
2.1	97.9	-10
7.3	92.7	0
23.7	76.3	10
72.6	27.4	20

№ 5277

[637]

**2 - UNDECYL BENZOTHAZOLE -
2 - PROPANOL**
 $C_{19}H_{27}NS-C_3H_7O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
<1	>99	-20
7.1	92.9	-10
29.1	70.9	0
66.7	33.3	10
Completely miscible		20

№ 5278 [932]

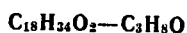
**9, 12-OCTADECADIENOIC
ACID - 2-PROPANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
5.7	94.3	-50
10.5	89.5	-40
31.1	68.9	-30
67.0	33.0	-20
91.5	8.5	-10
Completely miscible		0

№ 5279 [932]

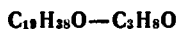
**9-OCTADECENOIC ACID -
1-PROPANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.1	98.9	-40
3.1	96.9	-30
10.3	89.7	-20
35.5	64.5	-10
69.3	30.7	0
92.0	8.0	10
Completely miscible		20

№ 5280 [935]

**2-NONADECANONE -
2-PROPANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.5	98.5	20
5.6	94.4	30
25.0	75.0	40
86.0	14.0	50

№ 5281 [637]

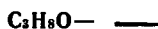
**2-HEPTADECYLBENZOTHAZOLE -
2-PROPANOL**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
<1	>99	10
10.1	89.9	20
88.2	11.8	30
Completely miscible		40

№ 5282 [533]

**1-PROPANOL -
VARIOUS SOLVENTS**

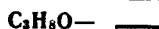


$$t = 4.5$$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylene- tetramine	$C_9H_{18}N_4$	36.2
Hexamethylene- diamine	$C_6H_{16}N_2$	37.0

№ 5283 [533]

**2-PROPANOL -
VARIOUS SOLVENTS**



$$t = 4.5$$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylene- tetramine	$C_9H_{18}N_4$	35.7
Hexamethylene- diamine	$C_6H_{16}N_2$	36.2

№ 5284

[1878]

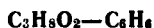
**TRIMETHYLENE GLYCOL -
BENZENE**
 $C_3H_8O_2-C_6H_6$

Solubility A, Mol.%	<i>t</i>
0.292	26.2
0.523	42.1
0.716	51.0
1.009	60.7
1.173	66.2

№ 5285

PROPYLENE GLYCOL - BENZENE

[1485]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
1.01	98.99	28.0	30.4	69.6	79.6
2.02	97.98	56.0	40.3	59.7	79.7
3.00	97.00	63.9	50.5	49.5	78.2
3.97	96.03	67.4	60.5	39.5	73.7
4.97	95.03	68.8	67.2	32.8	66.8
9.98	90.02	75.0	68.2	31.8	64.2
17.6	82.4	78.0	69.8	30.2	63.3
20.2	79.8	78.7	80.1	19.9	35.6
25.3	74.7	79.8	82.7	17.3	20.0

№ 5286

[1878]

**TRIMETHYLENE GLYCOL -
CYCLOHEXANE**
 $C_3H_8O_2-C_6H_{12}$

Solubility A, Mol.%	<i>t</i>
0.0283	39.3
0.0635	54.4
0.0964	63.9
0.1219	68.3
0.1297	69.4

№ 5287

[1878]

**TRIMETHYLENE GLYCOL -
HEPTANE**
 $C_3H_8O_2-C_7H_{16}$

Solubility A, Mol.%	<i>t</i>
0.0244	39.5
0.0500	50.1
0.0771	58.6
0.1027	64.6

№ 5288

[816]

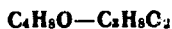
**2, 2, 3 - TRICHLORO - 1 - 1 -
BUTANEDIOL - GLYCEROL**
 $C_4H_7O_2Cl_3 - C_3H_8O_3$

Solubility A, Wt. %	<i>t</i>
50	15

№ 5289

2 - BUTANONE - GLYCEROL

[1266]

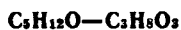


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
4.0	96.0	37.5	53.84	46.16	164.5
10.21	89.79	116.5	60.25	39.75	164.5
13.21	86.79	128.5	67.14	32.86	161.5
26.75	73.25	155.5	74.78	25.22	150.0
36.17	63.83	162.5	86.55	13.45	118.5
41.27	58.73	163.2	92.14	7.86	55.5

№ 5290

3 - METHYL - 1 - BUTANOL - GLYCEROL

[1266]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.05	94.95	21.5	36.79	63.21	74.1
10.35	89.65	58.0	46.16	53.84	73.0
13.97	86.03	66.5	69.30	30.70	54.41
19.20	80.80	71.5	62.40	37.60	61.4
27.62	72.38	73.7	76.21	23.79	36.8
31.90	68.10	74.2	84.26	15.74	12.5

№ 5291

[1502]

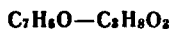
GLYCEROL – 1, 2 - BENZENEDIOL

Mutual Solubility Wt. %		<i>t</i>
A	B	
20.63	79.37	183
36.29	63.71	192
51.32	48.68	192.8
55.58	44.42	192.9
64.70	35.30	191.0
79.95	20.05	172.5

№ 5292

BENZALDEHYDE – GLYCEROL

[1266]

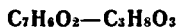


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.53	95.47	67.5	55.29	44.71	160.7
7.74	92.26	103.5	62.30	37.70	159.5
12.42	87.58	123.5	77.13	22.87	152.5
23.87	76.13	140.0	90.10	9.90	127.5
26.63	73.37	144.5	94.50	5.50	107.5
49.22	50.78	160.3	97.02	2.98	85.5

№ 5293

**BENZOIC ACID –
GLYCEROL (98.5%)**

[953]



Solubility A, Wt. %	<i>t</i>
2.15	20

№ 5294

***o* - HYDROXYBENZOIC ACID –
GLYCEROL (98.5%)**

[953]



Solubility A, Wt. %	<i>t</i>
1.60	20

№ 5295

**GALLIC ACID –
GLYCEROL**

[1978]

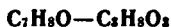


Solubility A, Wt. %	<i>t</i>
7.66	25

№ 5296

METHOXYBENZENE – GLYCEROL

[1266]

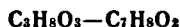


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.07	93.93	161.5	53.41	46.59	275.5
11.29	88.71	185.3	69.46	30.54	273.5
27.63	72.37	250.5	78.80	21.20	263.5
44.02	55.98	274.5	90.12	9.88	230.5

№ 5297

GLYCEROL – *o*-METHOXYPHENOL

[1266]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
71.43	28.57	35.0	22.60	77.40	90.0
68.12	31.88	73.5	24.78	75.22	52.5
61.18	38.82	80.1	25.28	74.72	51.5
60.96	39.04	80.4	26.97	73.03	47.0
53.82	46.18	82.6	31.98	68.02	42.0
45.44	54.56	83.4	38.07	61.93	39.9
40.13	59.87	83.5	38.65	61.35	39.9
38.65	61.35	83.0	40.13	59.87	39.5
38.07	61.93	83.0	45.44	54.56	39.8
31.98	68.02	79.5	53.82	46.18	40.7
26.97	73.03	72.9	60.96	39.04	41.8
25.28	74.72	67.0	61.18	38.82	42.2
24.78	75.22	66.0	68.12	31.88	46.6
22.60	77.40	35.0	71.43	28.57	80.0

№ 5298

N-METHYLANILINE – GLYCEROL

[1502]

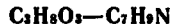


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
14.60	85.40	190.5	59.48	40.52	224.5
30.26	69.74	219.0	66.42	33.58	223.0
40.60	59.40	222.5	73.50	26.50	220.0
51.66	48.34	223.5	89.50	10.50	197.5

№ 5299

GLYCEROL - m-TOLUIDINE

[1502]

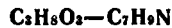


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
16.77	83.23	89.0	16.38	83.62	33.4
20.77	79.23	102.0	33.96	66.04	7.8
28.42	71.58	113.5	37.14	62.86	7.0
35.70	64.30	119.4	51.20	48.80	6.7
41.32	58.68	120.5	59.01	40.99	8.2
46.90	53.10	120.2	68.60	31.40	9.2
54.32	45.68	119.5	78.32	21.68	14.2
63.13	36.87	117.5	81.28	18.72	16.8
81.29	18.71	88.5	86.01	13.99	23.0

№ 5300

GLYCEROL - o-TOLUIDINE

[1502]

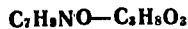


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
7.80	92.20	100	53.41	46.59	154
13.86	86.14	130	59.03	40.97	153
26.58	73.42	150	67.96	32.04	150
36.72	63.28	154	79.04	20.96	137
47.47	52.53	154.4	87.58	12.42	99.2

№ 5301

[1502]

o-METHOXYANILINE - GLYCEROL

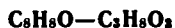


Mutual Solubility, Wt. %		<i>t</i>
A	B	
34.25	65.75	141.0
43.57	56.43	143.0
51.69	48.31	144.5
61.25	38.75	145.0
73.09	26.91	142.5

№ 5302

ACETOPHENONE – GLYCEROL

[1266]

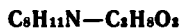


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.38	95.62	97.5	53.32	46.68	185.5
8.86	91.14	136.5	61.90	38.10	183.6
15.88	84.12	164.0	75.07	24.93	175.5
21.14	78.86	174.5	83.42	16.58	162.5
34.62	65.38	184.0	95.30	4.70	113.5
42.00	58.00	185.0	97.13	2.87	90.5
51.13	48.87	185.4			

№ 5303

N, N - DIMETHYLANILINE – GLYCEROL

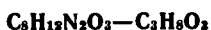
[1502]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
9.18	90.82	218.5	58.54	41.46	286.0
21.71	78.29	273.0	68.02	31.98	282.0
35.68	64.32	284.0	86.00	14.00	245.0
50.06	49.94	287.0	92.40	7.60	197.5

№ 5304

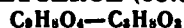
[953]

BARBITAL – GLYCEROL (98.5%)

Solubility A, g/l.	<i>t</i>
9.6	20

№ 5305

[953]

**o - ACETOXYBENZOIC ACID –
GLYCEROL (98.5%)**

Solubility A, Wt. %	<i>t</i>
0.87	20



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
10.14	89.86	61	54.89	45.11	51
18.07	81.93	50	76.10	23.90	63
24.48	75.52	50	86.50	13.50	71
40.06	59.94	50.1	87.85	12.15	85

№ 5307

[953]

**CAMPHORIC ACID –
GLYCEROL**

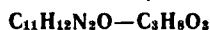


Solubility A, Wt. %	<i>t</i>
4.14	20

№ 5308

[953]

**ANTIPYRINE –
GLYCEROL (98.5%)**



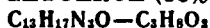
Solubility A, Wt. %	<i>t</i>
14.7	20

№ 5309

[953]

N, N - DIMETHYLAMINOANTIPYRINE –

GLYCEROL (98%)



Solubility A, Wt. %	<i>t</i>
1.48	20

№ 5310

[1476, 1477]

m - DIGALLIC ACID –

GLYCEROL

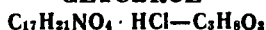


Solubility A, Wt. %	<i>t</i>
32.8	15

№ 5311

[1978]

**COCAINE HYDROCHLORIDE –
GLYCEROL**



Solubility A, Wt. %	<i>t</i>
20.0	15

№ 5312

[1978]

QUININE – GLYCEROL



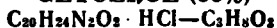
Solubility A, Wt. %	<i>t</i>
0.629	25

№ 5313 [953]

QUININE – GLYCEROL (98.5%)

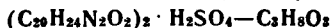
Solubility A, Wt. %	<i>t</i>
0.95	20

№ 5314 [953]

**QUININE HYDROCHLORIDE –
GLYCEROL (95%)**

Solubility A, Wt. %	<i>t</i>
14.4	20

№ 5315 [953]

**QUININE SULFATE –
GLYCEROL (98.5%)**

Solubility A, Wt. %	<i>t</i>
1.29	20

№ 5316 [1978]

QUININE SALTS – GLYCEROL*t* = 25

A		Solubility A, Wt. %
Name	Formula	
Quinine	$C_{20}H_{24}N_2O_2$	0.629
Quinine Hydrate	$C_{20}H_{24}N_2O_2 \cdot 3H_2O$	0.470
Quinine Hydrochloride	$C_{20}H_{25}N_2O_2Cl \cdot 2H_2O$	10.87
Quinine Salicylate	$C_{27}H_{30}N_2O_2 \cdot 1/2 2H_2O$	5.882
Quinine Sulfate	$C_{40}H_{50}N_4O_8S \cdot 7H_2O$	2.705
" "	$C_{20}H_{26}N_2O_6S \cdot 7H_2O$	5.258
Quinine Hydrobromide	$C_{20}H_{25}N_2O_2Br \cdot H_2O$	11.11

№ 5317 [1978]

STRYCHNINE – GLYCEROL

Solubility A, Wt. %	<i>t</i>
0.25	15

№ 5318 [1418]

BRUCINE – GLYCEROL

Solubility A, Wt. %	<i>t</i>
2.2	20

№ 5319 [1978]

**CINCHONINE SULFATE –
GLYCEROL**
(C₁₉H₂₂N₂O)₂ · H₂SO₄—C₃H₈O₃

Solubility A, Wt. %	<i>t</i>
6.3	15

№ 5320 [1569]

ETHYLUREA – QUINOLINE
C₂H₅N₂O—C₉H₇N

Solubility A, Wt. %	<i>t</i>
1.12	20

№ 5321 [533]

PROPYLAMINE – VARIOUS SOLVENTS

C₃H₉N— —*t* = 4.5

Solvent		Solubility A, Mol. %
Name	Formula	
n-Octanol	C ₈ H ₁₈ O	40.8
Ethylene Glycol	C ₂ H ₆ O ₂	46.5
1, 3-Butylene Glycol	C ₄ H ₁₀ O ₂	46.0
Glycerol	C ₃ H ₈ O ₃	49.7
Diethylene Glycol	C ₄ H ₁₀ O ₃	51.0
Triethylene Glycol	C ₆ H ₁₄ O ₄	51.9

№ 5322 [533]

2-AMINOPROPANE – VARIOUS SOLVENTS

C₃H₉N— —*t* = 4.5

Solvent		Solubility A, Mol. %
Name	Formula	
Ethylene Glycol	C ₂ H ₆ O ₂	48.8
Diethylene Glycol	C ₄ H ₁₀ O ₃	51.7
Triethylene Glycol	C ₆ H ₁₄ O ₄	55.2

№ 5323 [2036]

**MALEIC ANHYDRIDE –
DIMETHYLBENZENE**

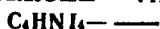
C₄H₂O₃—C₈H₁₀

Solubility A, g/l.	<i>t</i>
163.2	29.7



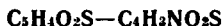
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.00	100.00	53.5	45.00	55.00	107.0
3.97	96.03	49.5	50.00	50.00	113.0
7.84	92.16	61.0	55.00	45.00	109.8
11.18	88.82	70.1	65.00	35.00	99.8
15.48	84.52	79.0	70.00	30.00	92.4
18.86	81.14	84.2	80.00	20.00	78.3
23.13	76.87	89.0	85.00	15.00	58.2
26.07	73.93	91.9	88.16	11.84	46.6
30.00	70.00	95.0	96.21	3.79	50.7
40.00	60.00	103.0	100.00	0.00	53.8

2, 3, 4, 5 - TETRAIODOPYRROLE – VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.0204
Ethanol	C ₂ H ₅ O	9.991
Ethyl Ether	C ₄ H ₁₀ O	39.98
Chloroform	CHCl ₃	0.94

2 - THIOPHENECARBOXYLIC ACID –
5 - THIAZOLECARBOXYLIC ACID

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.0	100.0	220.0	63.8	36.2	176.2
5.2	94.8	209.4	74.1	25.9	159.6
19.4	80.6	201.8	95.0	5.0	124.6
35.9	64.1	192.2	100.0	0.0	128.0
46.8	53.2	183.6			

№ 5327

[1390]

3-PYRIDINECARBOXYLIC ACID – 5-THIAZOLECARBOXYLIC ACID
 $C_6H_5NO_2 - C_4H_3NO_2S$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.0	100.0	220.0	62.3	37.7	217.0
5.9	94.1	209.8	77.8	22.2	223.0
19.0	81.0	206.0	93.3	6.7	232.4
34.8	65.2	206.6	100.0	0.0	233.0
48.3	51.7	208.8			

№ 5328

[1379]

BENZOIC ACID – 5-THIAZOLECARBOXYLIC ACID
 $C_7H_6O_2 - C_4H_3NO_2S$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.0	100.0	220.0	69.0	31.0	172.4
7.6	92.4	203.5	78.5	21.5	152.0
22.0	78.0	199.4	93.3	6.7	120.0
32.7	67.3	195.4	100.0	0.0	122.0
50.0	50.0	185.0			

№ 5329

[85]

THIOPHENE – 1-4-DIOXANE
 $C_4H_4S - C_4H_8O_2$

Mutual Solubility, wt. %		m.p.	Mutual Solubility, wt. %		m.p.
A	B		A	B	
0.00	100.00	11.6	59.64	40.36	-38.2
12.33	87.67	2.5	68.57	31.43	-50.1
19.54	80.46	-2.8	75.69	24.31	-60.0
30.80	69.20	-10.0	80.66	19.34	-56.0
40.82	59.18	-17.9	89.66	10.34	-47.5
51.47	48.53	-28.5	100.00	0.00	-38.5

№ 5330

[85]

THIOPHENE – PYRIDINE
 $C_4H_4S - C_5H_5N$

Mutual Solubility, Wt. %.		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	-41.8	55.65	44.35	-78.0
10.12	89.88	-48.2	57.50	42.50	-80.0
14.36	85.64	-51.0	60.82	39.18	-77.0
19.46	80.54	-54.5	69.84	30.16	-57.0
30.26	69.74	-61.1	80.06	19.94	-56.2
41.77	58.23	-70.0	89.76	10.24	-47.5
50.92	49.08	-76.0	100.00	0.00	-38.5

№ 5331

THIOPHENE – BENZENE

[85]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.00	100.00	5.5	56.55	43.45	—22.0
9.52	90.48	1.8	62.70	37.30	—25.0
14.42	85.58	— 0.5	70.38	29.62	—29.0
20.80	79.20	— 3.5	75.40	24.60	—32.0
29.00	71.00	— 8.0	85.28	14.72	—35.0
40.00	60.00	—13.0	91.25	8.75	—37.0
47.03	52.97	—17.0	100.00	0.00	—38.5

№ 5332

THIOPHENE – CYCLOHEXANE

[85]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.00	100.00	6.6	50.95	49.05	—66.0
5.60	94.40	— 5.0	61.12	38.88	—62.5
10.32	89.68	—13.5	70.67	29.33	—58.0
21.00	79.00	—32.0	80.28	19.72	—53.2
31.23	68.77	—46.0	90.50	9.50	—45.5
39.85	60.15	—56.0	100.00	0.00	—38.5

№ 5333

THIOPHENE – TOLUENE

[85]

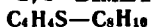


Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.00	100.00	— 95.0	40.27	59.73	—100.0
5.52	94.48	— 98.0	49.00	51.00	— 91.0
9.52	90.48	—101.0	60.22	39.78	— 78.0
20.90	79.10	—105.6	72.10	27.90	— 66.3
30.15	69.85	—110.0	81.10	18.90	— 56.0
35.00	65.00	—111.0	90.59	9.41	— 46.5
37.52	62.48	—107.0	100.00	0.00	— 38.5

№ 5334

THIOPHENE - 1,3-DIMETHYLBENZENE

[85]



Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.00	100.00	-47.8	56.50	43.50	80.0
11.47	88.53	-54.0	59.60	40.40	-77.0
21.22	78.78	-60.0	69.44	30.56	-66.0
32.36	67.64	-66.0	80.14	19.86	-56.5
41.40	58.60	-72.3	90.22	9.78	-46.4
51.00	49.00	-77.0	100.00	0.00	-38.5

№ 5335

THIOPHENE - ETHYLBENZENE

[85]



Mutual Solubility Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.00	100.00	-94.4	51.13	48.87	-85.0
16.30	83.70	-101.5	59.50	40.50	-74.0
24.65	75.35	-104.0	69.47	30.53	-64.2
30.80	69.20	-106.0	79.48	20.52	-55.5
35.15	64.85	-107.0	88.26	11.74	-47.0
41.50	58.50	-100.0	100.00	0.00	-38.5

№ 5336

TRIPHENYLMETHANE - THIOPHENE

[873]



Mutual Solubility Wt. %		t	Mutual Solubility Wt. %		t
A	B		A	B	
26.0	74.0	25.7	78.7	21.3	62.7
31.1	68.9	33.5	81.9	18.1	67.0
43.6	56.4	44.0	82.1	17.9	67.2
48.4	51.6	47.6	87.4	12.6	74.2
58.7	41.3	53.5	90.3	9.7	79.0
70.2	29.8	57.4	96.2	3.8	87.2
74.8	25.2	57.6			

№ 5337

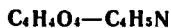
[1772]

**MALEIC ACID -
2-BUTENENITRILE**

Solubility A, Wt. %	t
4.38	50

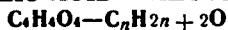
№ 5338

[1772]

**FUMARIC ACID -
2-BUTENENITRILE**

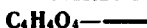
Solubility A, Wt. %	t
0.076	30
0.034	50

MALEIC ACID – ALCOHOLS



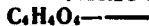
B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	41.0	22.5
Ethanol	C ₂ H ₆ O	30.2	0
"	"	34.4	22.5
1-Propanol	C ₃ H ₈ O	20.0	0
"	"	24.3	22.5
2-Methyl-1-propanol	C ₄ H ₁₀ O	14.2	0
"	"	17.5	22.5

MALEIC ACID – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	44.1	25
"	"	52.9	40
"	"	59.8	60
"	"	79.7	97.5
Ethanol 95%	C ₂ H ₆ O	41.1	29.7
Ethyl Ether	C ₄ H ₁₀ O	7.57	25
Chloroform	CHCl ₃	0.011	25
Carbon Tetrachloride	CCl ₄	0.002	25
Benzene	C ₆ H ₆	0.024	25
Acetone	C ₃ H ₆ O	26.3	29.7
Dimethylbenzene	C ₈ H ₁₀	0.0085	29.7

FUMARIC ACID – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.70	25
"	"	1.05	40
"	"	2.34	60
"	"	8.93	100
Ethanol 95%	C ₂ H ₆ O	5.44	29.7
Ethyl Ether	C ₄ H ₁₀ O	0.71	25
Chloroform	CHCl ₃	0.02	25
Carbon Tetrachloride	CCl ₄	0.027	25
Benzene	C ₆ H ₆	0.003	25
Acetone	C ₃ H ₆ O	1.69	29.7
Dimethylbenzene	C ₈ H ₁₀	0.027	29.7

**SUCCINOCHLORIMIDE —
VARIOUS SOLVENTS**



$$t = 20$$

Solvent		Solubility A, Wt. %
Name	Formula	
Carbon Tetrachloride	CCl_4	0.09
1- Pentanol	$\text{C}_5\text{H}_{12}\text{O}$	0.22
Glycerol	$\text{C}_3\text{H}_8\text{O}_3$	0.33
Dimethylbenzene	C_8H_{10}	0.76
Ethanol 95%	$\text{C}_2\text{H}_6\text{O}$	0.98
Toluene	C_7H_8	1.10
Water	H_2O	1.25
Benzene	C_6H_6	1.70
Methanol	CH_4O	1.73
Chloroform	CHCl_3	3.77
Acetic Acid	$\text{C}_2\text{H}_4\text{O}_2$	4.81
Dichloroethane	$\text{C}_2\text{H}_4\text{Cl}_2$	5.41
Tetrachloroethane	$\text{C}_2\text{H}_2\text{Cl}_4$	6.63
Acetone	$\text{C}_3\text{H}_6\text{O}$	9.71

**3- CHLORO- 2- BUTENOIC ACID —
VARIOUS SOLVENTS**



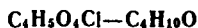
Solvent		Solubility A, Wt. %	t
Name	Formula		
cis- Dichloroacetylene	C_2Cl_2	5.44	0
" "	"	24.35*	0
" "	"	3.01*	39
trans- Dichloroacetylene	"	2.30	0
" "	"	27.16*	0
" "	"	1.61*	39
cis- β - Chloroethyl 2- Butenoate	$\text{C}_6\text{H}_9\text{O}_2\text{Cl}$	8.19	20
" "	"	36.74*	20
cis- 2- Bromo- 2- butene	$\text{C}_4\text{H}_7\text{Br}$	1.44	0
" "	"	14.50*	0
trans- 2- Bromo- 2- butene	"	1.14	0
" "	"	14.75*	0

* Isoacid

№ 5344

[1950]

**CHLOROSUCCINIC ACID –
ETHYL ETHER**

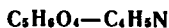


Solubility A, Wt. %	<i>t</i>
12.23	20

№ 5346

[1772]

**METHYLMALEIC ACID –
2 - BUTENENITRILE**

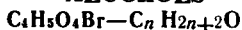


Solubility A, Wt. %	<i>t</i>
20.59	30

№ 5345

[175]

**BROMOSUCCINIC ACID –
ALCOHOLS**



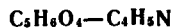
$$t = 22$$

B		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	56.5
Ethanol	C ₂ H ₆ O	45.5
Propanol	C ₃ H ₈ O	33.1

№ 5347

[1772]

**METHYLFUMARIC ACID –
2 - BUTENENITRILE**



Solubility A, Wt. %	<i>t</i>
0.71	30

№ 5348

[1191]

**9 - OCTADECENOIC ACID –
2 - BUTENENITRILE**



Solubility A, Wt. %	<i>t</i>
23.19	0

№ 5349

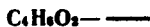
TRIPHENYLMETHANE – PYRROLE

[873]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
24.3	75.7	24.6	72.3	27.7	60.0
29.8	70.2	29.0	76.7	23.3	63.9
33.4	66.6	31.5	81.9	18.1	68.5
40.6	59.4	36.8	84.4	15.6	71.1
49.1	50.9	42.7	91.5	8.5	80.0
56.0	44.0	46.9	97.6	2.4	89.2
63.9	36.1	53.2			

2-BUTENOIC ACID – VARIOUS SOLVENTS

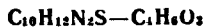


Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
cis-Dichloroacetylene	C_2Cl_2	17.24	0
"	"	> 50*	0
trans-Dichloroacetylene	"	14.62	0
"	"	> 50*	0
cis-2-Bromo-2-butene	C_4H_7Br	7.85	40
"	"	> 50*	40
trans-2-Bromo-2-butene	"	7.30	0
"	"	> 50*	0

ACETIC ANHYDRIDE – CYCLOHEXANE



Mutual Solubility, wt. %			Mutual Solubility, wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
7.20	92.80	20.4	47.33	52.67	52.45
10.40	89.60	33.5	52.25	47.75	52.37
12.09	87.91	36.2	58.83	41.17	52.00
16.90	83.10	43.1	62.77	37.23	51.40
24.32	75.68	48.3	70.16	29.84	48.30
27.97	72.03	50.3	76.03	23.97	43.50
39.03	60.97	52.25	84.71	15.29	29.00
43.01	56.99	52.40	89.83	10.17	11.00
43.35	56.65	52.42			

N-2-PROPENYL-N¹-
PHENYLTHIOUREA –
ACETIC ANHYDRIDE

Mutual Solubility, Mol. %		m.p
A	B	
54.04	45.96	43.5
66.63	33.37	71.3
78.46	21.54	81.3
100.00	0.00	99.0

* Isoacid



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
7.14	92.86	27.6	53.50	46.50	85.52
9.46	90.54	38.5	60.67	39.33	85.25
14.95	85.05	63.5	67.87	32.13	84.0
22.59	77.41	76.1	72.08	27.92	82.55
26.90	73.10	80.0	76.73	23.27	80.27
30.83	69.17	82.0	79.85	20.15	77.35
35.00	65.00	83.5	84.91	15.09	71.00
42.67	57.33	85.1	94.10	5.90	40.0
52.11	47.89	85.5	96.80	3.20	16.5

№ 5354

[174]

**SUCCINIC ACID —
2-METHYL-1-PROPANOL**



Solubility A, Wt. %	<i>t</i>
2.66	21.5

№ 5355

[367]

**SUCCINIC ACID —
ETHYL ETHER**

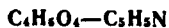


Solubility A, Wt. %	<i>t</i>
1.25	15

№ 5356

[585]

**DIMETHYL OXALATE —
PYRIDINE**

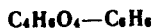


Solubility A, Wt. %	<i>t</i>
4.58	20

№ 5357

[1989]

**METHYLMALONIC ACID —
BENZENE**



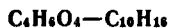
Solubility A, Wt. %	<i>t</i>
0.003	25

* b.p. 170 — 180°.

№ 5358

[1192]

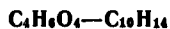
DIMETHYL OXALATE – CAMPHENE



Solubility A, Wt. %	<i>t</i>
42.0	62.6

№ 5359

[2055]

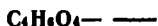
SUCCINIC ACID –
p - CYMENE

Solubility A, Wt. %	<i>t</i>
0.02	25

№ 5360

[596]

SUCCINIC ACID – VARIOUS SOLVENTS

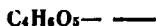
*t* = 28

Solvent		Solubility A, Mol. %
Name	Formula	
Acetone	C_3H_6O	2.948
Carbon Tetrachloride	CCl_4	0.0012
Benzene	C_6H_6	0.0028
Toluene	C_7H_8	0.0030
1, 3- Dimethylbenzene	C_8H_{10}	0.0030
Chlorobenzene	C_6H_5Cl	0.0048
Nitrobenzene	$C_6H_5NO_2$	0.0128
Chloroform	$CHCl_3$	0.0138
Methanol	CH_4O	5.620
Ethanol	C_2H_6O	4.865
1- Propanol	C_3H_8O	3.613
1- Butanol	$C_4H_{10}O$	2.618

№ 5361

[175, 1950, 2051]

MALIC ACID – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH_4O	55.5	0
"	"	62.6	19.1
Ethanol	C_2H_6O	47.7	19
1- Propanol	C_3H_8O	35.1	19
Dichloroethylene	$C_2H_2Cl_2$	0.009	15
Trichloroethylene	C_2HCl_3	0.010	15
Ethyl Ether	$C_4H_{10}O$	2.87	20

№ 5362 [1950]

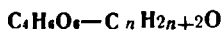
TARTARIC ACID —**ETHYL ETHER**

Solubility A, Wt. %			<i>t</i>
<i>d</i> - Acid	<i>l</i> - Acid		
0.309	0.312		20

№ 5363

TARTARIC ACID — ALCOHOLS

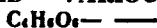
[175]



B		Solubility A, Wt. %	<i>t</i>	B		Solubility A, Wt. %	<i>t</i>
Name	Formula			Name	Formula		
Methanol	CH ₄ O	40.3	-3	Ethanol	C ₂ H ₆ O	22.4	23
"	"	41.2	19.2	"	"	24.1	39
"	"	42.3	23	1-Propanol	C ₃ H ₈ O	8.03	-3
"	"	43.6	39	"	"	9.78	19.2
Ethanol	C ₂ H ₆ O	18.3	-3	"	"	10.6	23
"	"	21.6	19.2	"	"	12.6	39

№ 5364

[367, 2051]

TARTARIC ACID — VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>	<i>d</i> ₄ ²⁵
Name	Formula			
1-Pentanol	C ₅ H ₁₂ O	3.38	25	0.824
Benzene	C ₆ H ₆	0.0096	25	0.875
Carbon Tetrachloride	CCl ₄	0.0189	25	1.589
Ethyl Ether	C ₄ H ₁₀ O	0.61	25	0.715
"	"	0.40	15	—
Dichloroethylene.	C ₂ H ₂ Cl ₂	0.005	15	—
Trichloroethylene	C ₂ HCl ₃	0.005	15	—

№ 5365

1-BUTYLENE — DIMETHYLBENZENE

[73]



Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>	Solubility A cc/cc B	<i>t</i>	<i>P</i>
20.0	-21	50	65.5	0	300	2.0	40	50
44.0	-21	100	3.0	20	50	4.5	40	100
74.0	-21	150	7.0	20	100	6.0	40	150
12.0	-10	50	11.0	20	150	9.0	40	200
34.0	-10	100	14.0	20	200	13.5	40	300
38.5	-10	150	23.0	20	300	18.5	40	400
55.0	-10	200	35.0	20	400	24.5	40	500
8.6	0	50	47.0	20	500	30.5	40	600
17.5	0	100	58.5	20	600	36.0	40	700
27.5	0	150	70.5	20	700	39.0	40	760
38.0	0	200	75.0	20	760			

**BUTYLENE—
BENZENE HEADS***



$t = 0$

Solubility A cc/cc B	P
6.0	50
12.0	100
19.0	150
28.0	200
38.0	250

№ 5367 **1-BUTYLENE – CRACKED BENZINE**** [73]



Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P
16.0	-21	50	55.0	0	300	2.0	40	50
46.0	-21	100	2.0	20	50	4.0	40	100
61.5	-21	150	5.0	20	100	6.0	40	150
9.5	-10	50	8.0	20	150	8.0	40	200
21.5	-10	100	11.5	20	200	10.0	40	250
35.0	-10	150	15.5	20	250	12.0	40	300
52.0	-10	200	20.0	20	300	16.0	40	400
7.5	0	50	29.0	20	400	20.0	40	500
15.5	0	100	39.0	20	500	24.0	40	600
24.0	0	150	48.5	20	600	28.5	40	700
32.5	0	200	56.0	20	700	31.0	40	760
42.5	0	250	61.0	20	760			

№ 5368 **BUTYLENE – KEROSENE***** [73]



Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P	Solubility A cc/cc B	t	P
17.5	-21	50	25.5	0	200	58.5	20	760
36.0	-21	100	42.5	0	300	1.0	40	50
54.5	-21	150	3.0	20	50	2.0	40	100
73.5	-21	200	6.0	20	100	3.0	40	150
7.5	-10	50	8.5	20	150	4.3	40	200
15.5	-10	100	11.5	20	200	8.0	40	300
25.5	-10	150	18.0	20	300	11.5	40	400
39.0	-10	200	25.5	20	400	15.0	40	500
5.5	0	50	35.0	20	500	19.0	40	600
11.5	0	100	44.0	20	600	22.0	40	700
18.0	0	150	56.0	20	700	24.0	40	760

* Top-product had b.p. 50 – 90°, the greater part had been distilled at 60 – 70°.

** Cracked gasoline contained 30% unsaturated hydrocarbons, and had b.p. 61.8 – 200° at p 750 mm.

*** Kerosine from BAKU oil field; d_4^{20} 0.834, b.p. 140 – 210° at p 737 mm.

**BUTYLENE -
HEAVY SOLVENT***


$$t = 0$$

Solubility A g/cc B	P
8.0	50
16.0	100
24.0	150
33.0	200
44.0	250

№ 5370

 β, β' -DICHLOROETHYL SULFIDE - BENZENE

[1944]



Solubility A, Wt.%			t	Solubility A, Wt.%		
A	B	A		B	t	
30.08	69.92	4.2	53.49	46.51	18.7	
30.14	69.86	4.5	66.02	33.98	20.4	
36.46	63.54	9.0	77.53	22.47	18.0	
36.51	63.49	9.5	87.17	12.83	7.8	
46.21	53.79	13.5	87.34	12.66	7.3	
46.32	53.68	14.0				

№ 5371

 β, β' -DICHLOROETHYL SULFIDE - KEROSENE

[1944]



Solubility A, Wt.%			t	Solubility A, Wt.%		
A	B	A		B	t	
33.13	66.87	9.5	76.67	23.33	25.6	
39.79	60.21	14.2	81.42	18.58	24.3	
68.67	31.33	25.0	84.93	15.07	21.9	
73.80	26.20	25.6	89.68	10.32	14.3	
75.21	24.79	25.6	91.88	8.12	8.9	

№ 5372

 β, β' -DICHLOROETHYL SULFIDE - LIGROIN

[1944]



Solubility A, Wt.%			Solubility A, Wt.%			Solubility A, Wt.%		
A	B	m.p.	A	B	m.p.	A	B	m.p.
8.7	91.3	-7.5	43.7	56.3	16.0	84.5	15.5	9.6
11.3	88.7	-6.5	49.4	50.6	17.5	86.4	13.6	9.0
13.7	86.3	-2.5	56.8	43.2	18.3	88.4	11.6	9.5
16.1	83.9	0.2	61.4	38.6	19.0	90.5	9.5	10.0
24.2	75.8	2.5	66.7	33.3	19.0	95.1	4.9	12.0
27.8	72.2	6.5	76.1	23.9	17.22	97.4	2.6	13.0
32.5	67.5	10.3	80.9	19.1	14.0	100.0	0.0	13.0
39.3	60.7	14.5	82.6	17.4	12.0			

* Heavy solvent; b.p. 150 - 250°, containing approximately equal quantities of olefin, aromatic and naphthenic hydrocarbons.

№ 5373

 β, β - DICHLOROETHYL SULFIDE - LIGHT OIL

[1944]

 $C_4H_8Cl_2S$ —

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
21.64	78.36	9.3	54.48	45.52	35.0
24.33	75.67	14.5	63.80	36.20	37.0
29.88	70.12	20.9	86.58	13.42	31.3
38.49	61.51	23.6	88.74	11.26	28.0
47.95	52.05	33.0	90.78	9.22	25.0

№ 5374

[932]

9, 12 - OCTADECADIENOIC ACID -
2 - BUTANONE
 $C_{18}H_{32}O_2$ — C_4H_8O

Mutual Solubility, Wt. %		<i>t</i>
A	B	
4.4	95.6	-50
9.6	90.4	-40
27.0	73.0	-30
64.9	35.1	-20
92.4	7.6	-10
Completely miscible		0

№ 5375

[932]

9 - OCTADECENOIC ACID -
2 - BUTANONE
 $C_{18}H_{34}O_2$ — C_4H_8O

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.0	99.0	-40
2.5	97.5	-30
7.9	92.1	-20
25.1	74.9	-10
63.0	37.0	0
89.8	10.2	10
Completely miscible		20

№ 5376

[1624]

1, 2, 3, 4 - PENTANETETROL
TETRANITRATE - ETHYL ACETATE
 $C_5H_8N_4O_{12}$ — $C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
9.60	20
12.33	30
15.61	40
19.48	50

№ 5377

[1568]

HYDOXYPROLINE -
BUTANOIC ACID
 $C_5H_9NO_2$ — $C_4H_8O_2$

Solubility A, g/l.	<i>t</i>
0.06	18

№ 5378

[1568]

VALINE -
BUTANOIC ACID
 $C_5H_{11}NO_2$ — $C_4H_8O_2$

Solubility A, g/l.	<i>t</i>
0.56	18

№ 5379

m - DINITROBENZENE — ETHYL ACETATE

[511, 1385]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
17.89	82.11	0.02	27.64	22.36	20.0
18.93	81.07	2.48	29.18	70.82	22.5
19.94	80.06	5.0	30.85	69.15	25.0
21.02	78.98	7.5	32.61	67.39	27.5
22.21	77.79	10.0	34.44	65.56	30.0
23.46	76.54	12.5	36.39	63.61	32.5
24.79	75.21	15.0	38.40	61.60	35.0
26.17	23.83	17.5			

№ 5380

m - NITROANILINE — ETHYL ACETATE

[519]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
16.1	83.9	25	35.6	64.4	70
17.3	82.7	30	46.0	54.0	80
20.0	80.0	40	59.2	40.8	90
23.4	76.6	50	76.0	24.0	100
28.2	71.8	60	96.1	3.9	110

№ 5381

[519]

**o - NITROANILINE —
ETHYL ACETATE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
34.1	65.9	25
38.3	61.7	30
48.2	51.8	40
61.6	38.4	50
77.6	22.4	60

№ 5382

p - NITROANILINE — ETHYL ACETATE

[519]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
11.4	88.6	40	28.6	71.4	90
13.4	86.6	50	35.8	64.2	100
15.8	84.2	60	44.6	55.4	110
18.8	81.2	70	56.5	43.5	120
22.9	77.1	80	87.1	12.9	140



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B		A	B	
0.0	100.0	6.5	35.6	64.4	-4.5	66.7	33.3	0.9
4.5	95.5	1.2	35.8	64.2	-4.7	72.7	27.3	2.3
8.7	91.3	-2.6	37.5	62.5	-4.0	76.7	23.3	2.9
12.9	87.1	-6.5	39.5	60.5	-3.7	81.5	18.5	4.4
16.1	83.9	-8.9	41.7	58.3	-3.1	86.5	13.5	6.0
19.3	80.7	-11.0	48.2	51.8	-2.0	91.5	8.5	7.7
22.3	77.7	-8.9	49.6	50.4	-1.6	95.9	4.1	9.7
25.3	74.7	-7.7	56.2	43.8	-0.8	100.0	0.0	11.8
27.6	72.4	-7.0	59.2	40.8	-0.4			
31.8	68.2	-5.7	60.2	39.8	-0.3			

**LEUCINE -
BUTANOIC ACID**



Solubility A, g/l.	t
0.24	18

**BENZOIC ACID -
ETHYL ACETATE**



Solubility A, g/l.	t
8.0	-6.5
37.7	21.5
95.7	75

m - AMINO BENZOIC ACID - ETHYL ACETATE



Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
1.3	98.7	25	6.8	93.2	100
1.4	98.6	30	11.4	88.6	110
1.6	98.4	40	19.2	80.8	120
1.8	98.2	50	28.4	71.6	130
2.0	98.0	60	30.8	69.2	140
2.5	97.5	70	54.6	45.4	150
3.3	96.7	80	70.9	29.1	160
4.7	95.3	90	87.1	12.9	170

№ 5387

o-AMINO BENZOIC ACID – ETHYL ACETATE

[1189]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
14.71	85.29	25	39.0	61.0	90
15.0	85.0	30	45.8	54.2	100
16.8	83.2	40	54.4	45.6	110
19.2	80.8	50	64.6	35.4	120
22.2	77.8	60	77.7	22.3	130
26.2	73.8	70	91.5	8.5	140
31.6	68.4	80			

№ 5388

p-AMINO BENZOIC ACID – ETHYL ACETATE

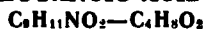
[1189]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
5.1	94.9	25	22.0	78.0	110
5.4	94.6	30	27.8	72.2	120
6.0	94.0	40	35.4	64.6	130
7.0	93.0	50	44.4	55.6	140
8.1	91.9	60	54.8	45.2	150
9.7	90.3	70	66.3	33.7	160
11.7	88.3	80	78.8	21.2	170
14.3	85.7	90	91.3	8.7	180
17.7	82.3	100			

№ 5389

[1568]

β-PHENYLALANINE – BUTANOIC ACID

Solubility A, g/l.	<i>t</i>
0.56	18

№ 5390

**2-NONANONE –
ETHYL ACETATE**
 $C_9H_{18}O - C_4H_8O_2$

[935]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
21.0	79.0	—40
34.3	65.7	—30
60.3	39.7	—20
92.6	7.4	—10

№ 5391

**TRYPTOPHAN –
BUTANOIC ACID**
 $C_{11}H_{12}N_2O_2 - C_4H_8O_2$

[1568]

Solubility A, g/l.	<i>t</i>
0.53	18

№ 5392

BIPHENYL – DIOXANE
 $C_{12}H_{10} - C_8H_{16}O_2$

[2026]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
39.8	60.2	26.4	75.2	24.8	55.0
45.7	54.3	32.4	79.8	20.2	57.7
53.5	46.5	39.3	89.6	10.4	63.4
63.8	36.2	47.3	96.9	3.1	67.7
72.5	27.5	53.1			

№ 5393

DODECYLAMMONIUM CHLORIDE – ETHYL ACETATE
 $C_{12}H_{25}NCl - C_4H_8O_2$

[933]

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
0.28	99.78	56.3	1.78	98.22	60.6
0.51	99.49	56.7	2.56	97.44	65.2
0.80	99.20	57.1	3.11	96.89	67.5
1.10	98.90	57.4	3.48	96.52	69.0
1.18	98.82	57.5	5.08	94.92	74.1
1.36	98.64	57.6	6.72	93.28	78.2

№ 5394 **2-TRIDECANONE** — [935]
ETHYL ACETATE
 $C_{13}H_{26}O-C_4H_8O_2$

Mutual Solubility Wt. %		<i>t</i>
A	B	
3.4	96.6	—20
6.3	93.7	—10
14.5	85.5	0
44.4	55.6	10
80.0	20.0	20

№ 5395 [935]
2-TRIDECANONE — DIOXANE
 $C_{13}H_{26}O-C_4H_8O_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
23.9	76.1	4.7
78.3	21.7	20

№ 5396 **DIHYDROXYANTHRAQUINONE — ETHYL ACETATE** [1973]
 $C_{14}H_{10}O_4-C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>	d_4^t	Solubility A, Wt. %	<i>t</i>	d_4^t
0.515	10	0.9102	1.613	60	0.8561
0.622	20	0.9025	1.866	65	0.8508
0.764	30	0.8906	2.167	70	0.8454
0.985	40	0.8769	2.453	75	0.8401
1.275	50	0.8674			

№ 5397 [840]

DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) — DIOXANE
 $C_{14}H_9Cl_5-C_4H_8O_2$

Mutual Solubility Wt. %		<i>t</i>
A	B	
8.0	92.0	0.0
29.0	71.0	7.2
46.0	54.0	24.0
61.0	39.0	48.0

№ 5398 **COCAINE** — [1418]
ETHYL ACETATE
 $C_{17}H_{21}NO_4-C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
37.1	20

№ 5399

[637]

**2 - UNDECYLBENZOTHAZOLE -
ETHYL ACETATE**



Mutual Solubility Wt. %		<i>t</i>
A	B	
<1	>99	-30
4.9	95.1	-20
19.8	80.2	-10
46.8	53.2	0
75.3	24.7	10
Completely miscible		20

№ 5400

[932]

**9, 12 - OCTADECADIENOIC ACID -
ETHYL ACETATE**



Mutual Solubility Wt. %		<i>t</i>
A	B	
5.3	94.7	-50
12.8	87.2	-40
36.7	63.3	-30
66.7	33.3	-20
92.8	7.2	-10
Completely miscible		0

№ 5401

9 - OCTADECENOIC ACID - ETHYL ACETATE

[932]

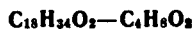


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.6	98.4	-40	64.9	35.1	0
4.3	95.7	-30	88.2	11.8	10
10.9	89.1	-20	Completely miscible		20
30.6	69.4	-10			

№ 5402

[932]

**9 - OCTADECENOIC ACID -
DIOXANE**

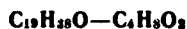


Mutual Solubility, Wt. %		<i>t</i>
A	B	
61.6	38.4	-3.3
70.3	29.7	0
91.8	8.2	10
Completely miscible		20

№ 5403

[935]

**2 - NONADECANONE -
ETHYL ACETATE**



Mutual Solubility Wt. %		<i>t</i>
A	B	
1.6	98.4	10
5.1	94.9	20
16.1	83.9	30
47.6	52.4	40
88.4	11.6	50

№ 5404

[935]

2 - NONADECANONE – DIOXANE
 $C_{19}H_{38}O - C_4H_8O_2$

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.8	99.2	11.4
3.6	96.4	20
13.7	86.3	30
40.1	59.9	40
89.0	11.0	50

№ 5405

[1418]

QUININE – ETHYL ACETATE
 $C_{20}H_{24}N_2O_3 - C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
19.8	20

№ 5406

[1418]

QUINIDINE – ETHYL ACETATE
 $C_{20}H_{24}N_2O_3 - C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
1.73	20

№ 5407

[1530]

SALTS OF QUININE – ETHYL ACETATE
 $C_{20}H_{24}N_2O_3 \cdot \text{Acid.} - C_4H_8O_2$

A	Solubility A, Wt. %	<i>t</i>
Quinine racemic Lactate	0.287	20
" " "	3.222	77
Quinine d- Lactate	0.249	20
Quinine l- Lactate	0.200	20
Quinine Sulfate	0.00715	20
" " "	0.0133	77
Quinine Succinate	0.598	77
Quinine Tartrate	0.0333	77
Quinine Malate	0.497	77
Quinine Citrate	0.0833	77

№ 5408

[1418]

STRYCHNINE – ETHYL ACETATE
 $C_{21}H_{22}N_2O_2 - C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
0.197	20

№ 5409

[1418]

BRUCINE – ETHYL ACETATE
 $C_{22}H_{28}N_2O_4 - C_4H_8O_2$

Solubility A, Wt. %	<i>t</i>
4.26	20

№ 5410 2-HEPTADECYL BENZOTHAZOLE – ETHYL ACETATE [637]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
<2	>98	-20	24.2	75.8	20
2.0	98.0	-10	58.3	41.7	30
4.5	95.5	0	Completely miscible		40
10.0	90.0	10			

№ 5411 [934]

GLYCEROL TRIOCTADECANOATE – ETHYL ACETATE

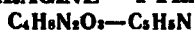


Solubility A, Wt. %	<i>t</i>		
	<i>α</i> -form	<i>β'</i> -form	<i>β</i> -form
2.3	34.8	42.6	50.6
14.1	39.1	47.6	56.8
35.1	43.8	52.5	61.4
55.7	47.2	56.8	65.3
75.9	50.4	59.8	68.5
89.1	52.5	62.3	70.8
100.0	54.0	64.5	73.0

NOTE: Data computed from the article graph

№ 5412 [585]

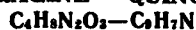
ASPARAGINE – PYRIDINE



Solubility A, Wt. %	<i>t</i>
0.03	20

№ 5413 [1569]

ASPARAGINE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
0.11	20

BUTANE - HYDROCARBON BLENDS * (CRYSTAL OIL, MOL. WT. 337)

C₄H₁₀—

Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at	Solubility A, Wt.%	<i>t</i>	<i>P</i> _{abs.} at
4.6	21.1	0.68	2.7	71.1	1.36	88.4	87.8	11.9
13.5	21.1	1.36	4.9	71.1	2.04	0.6	104.4	0.68
49.9	21.1	2.04	7.6	71.1	2.72	1.2	104.4	1.36
2.5	37.8	0.68	10.8	71.1	3.41	2.1	104.4	2.04
6.8	37.8	1.36	21.1	71.1	5.10	3.2	104.4	2.72
14.0	37.8	2.04	39.0	71.1	6.80	4.3	104.4	3.40
25.2	37.8	2.72	0.7	87.8	0.68	7.9	104.4	5.10
60.0	37.8	3.40	1.7	87.8	1.36	12.4	104.4	6.80
1.7	54.4	0.68	3.2	87.8	2.04	17.5	104.4	8.50
4.2	54.4	1.36	4.9	87.8	2.72	23.2	104.4	10.2
8.0	54.4	2.04	7.0	87.8	3.40	31.1	104.4	11.9
12.8	54.4	2.72	12.9	87.8	5.10	43.3	104.4	13.6
18.7	54.4	3.40	20.4	87.8	6.80	65.1	104.4	15.3
58.5	54.4	5.10	30.4	87.8	8.50			
11.1	71.1	0.68	47.1	87.8	10.2			

№ 5415

[1989]

 ETHYLMALONIC ACID -
 ETHYL ETHER
 C₅H₈O₄ - C₄H₁₀O

Solubility A, Wt.%	<i>t</i>
0.015	25

№ 5416

[1977]

 1, 2, 3, 4 - PENTANETETROL
 TETRANITRATE - ETHYL ETHER
 C₅H₈N₄O₁₂ - C₄H₁₀O

Solubility A, Wt.%	<i>t</i>
0.200	0
0.224	10
0.249	20
0.339	30
0.430	34.7

* Hydrocarbon blend known as crystalline or heavy hydrocarbon oil, colorless fluid; viscosity 284 millipoise at 37.8°, specific gravity 0.8663 at 37.8° and vapor pressure 0.005 mm at room temperature.

№ 5417

[1835]

**PICRIC ACID –
ETHYL ETHER**
 $C_6H_3N_3O_7 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>	d_4^{20}
5.0	20	0.74

№ 5418

[1772]

**PICRIC ACID –
ETHYL ETHER**
 $C_6H_3N_3O_7 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
2.22	15

№ 5419

[409]

**1, 2, 4 - TRINITROBENZENE –
ETHYL ETHER**
 $C_6H_2N_3O_6 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
6.66	15.5

№ 5420

p - DIBROMOBENZENE – ETHYL ETHER
 $C_6H_4Br_2 - C_4H_{10}O$

[1751]

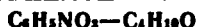
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
30	70	10	67	33	50
38	62	20	77	23	60
47	53	30	87	13	70
57	43	40			

№ 5421

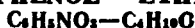
p - DIBROMOBENZENE – 2 - METHYL - 1 - PROPANOL
 $C_6H_4Br_2 - C_4H_{10}O$

[1751]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
15	85	30	65	35	70
20	80	40	77	23	75
30	70	50	94.6	5.4	80
44	56	60			



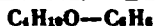
Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
51.44	48.56	0.2	68.02	31.98	48.5
54.17	45.83	8.2	72.92	27.08	59.0
55.99	44.01	12.2	78.03	21.97	68.0
58.96	41.04	23.5	83.58	16.42	75.0
63.89	36.11	39.5	91.42	8.58	83.0



Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
27.41	72.59	1.0	58.12	41.88	21.9
30.95	69.05	5.5	71.38	28.62	27.8
37.27	62.73	10.5	82.79	17.21	33.2
44.75	55.25	15.8	90.23	9.77	37.5



Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
52.38	47.62	1.0	62.64	37.36	46.8
53.61	46.39	10.1	66.89	33.11	59.9
55.06	44.94	18.0	71.38	28.62	70.5
56.74	43.26	24.1	79.23	20.77	87.8
57.07	42.93	28.7	85.51	14.49	97.1
58.20	41.80	31.7	90.92	9.08	101.9
59.89	40.11	38.1			



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B		A	B	
0.0	100.0	5.1	49.6	50.4	-33.0	87.7	12.3	-94.0
5.1	94.9	1.7	55.0	45.0	-36.9	90.4	9.6	-105.0
7.0	93.0	0.4	59.6	40.4	-43.4	91.3	8.7	-106.0
14.9	85.1	-4.3	64.1	35.9	-48.0	92.4	7.6	-115.5
16.0	84.0	-4.8	69.7	30.3	-52.5	92.7	7.3	-118.5
25.1	74.9	-11.2	74.5	25.5	-61.3	94.8	5.2	-126.5
30.6	69.4	-14.9	80.3	19.7	-71.7	94.9	5.1	-126.5
35.1	64.9	-18.6	82.0	18.0	-74.5	97.1	2.9	-125.0
39.5	60.5	-22.6	82.3	17.7	-79.0	97.6	2.4	-124.5
44.9	55.1	-27.0	85.1	14.9	-88.5	100.0	0.0	-123.5

№ 5426

1, 4 - BENZENEDIOL - ETHYL ETHER

[2013]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
8.39	91.61	60	36.85	63.15	120
12.70	87.30	70	43.51	56.49	130
17.07	82.93	80	52.60	47.40	140
21.66	78.34	90	63.63	36.37	150
26.30	73.70	100	76.90	23.10	160
31.28	68.72	110	100.00	0.00	172

№ 5427

1, 2 - BENZENEDIOL - ETHYL ETHER

[2013]

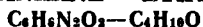


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
46.95	53.05	40	68.50	31.50	80
51.10	48.90	50	77.85	22.15	90
55.86	44.14	60	92.40	7.60	100
61.55	38.45	70	100.00	0.0	104.5

№ 5428

m - NITROANILINE - ETHYL ETHER

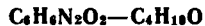
[519]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
3.6	96.4	25	16.4	83.6	70
4.5	95.5	30	25.9	74.1	80
6.3	93.7	40	42.1	57.9	90
8.4	91.6	50	68.6	31.4	100
11.3	88.7	60	94.6	5.4	110

№ 5429

[519]

o - NITROANILINE - ETHYL ETHER

Mutual Solubility, Mol. %		<i>t</i>
A	B	
18.7	81.3	25
21.5	78.5	30
30.6	69.4	40
50.1	49.9	50
74.0	26.0	60



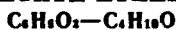
Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
2.0	98.0	25	9.4	90.6	80
2.2	97.8	30	15.3	84.7	90
2.9	97.1	40	25.9	74.1	100
3.9	96.1	50	39.2	60.8	110
5.1	94.9	60	54.7	45.3	120
6.6	93.4	70	87.5	12.5	140

№ 5431

[1978]

1, 2, 3 - BENZENETRIOL -

ETHYL ETHER



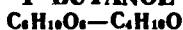
Solubility A, Wt.%	<i>t</i>
47.6	25

№ 5432

[1975]

d-MANNONIC LACTONE -

1-BUTANOL



d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.0719	47.1	0.0379	48.1
0.0868	51.3	0.0414	50.8
0.106	54.7	0.0472	53.9
0.139	60.1	0.0634	59.6
0.163	63.0	0.0822	65.0
0.241	71.5	0.103	69.4

№ 5433

[1975]

d-MANNONIC LACTONE -

2-METHYL-1-PROPANOL



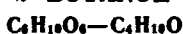
d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.0659	49.5	0.0307	46.8
0.0770	51.7	0.0402	52.3
0.102	56.9	0.0461	55.4
0.142	63.3	0.0582	59.5
0.164	66.4	0.0693	63.0
0.235	75.1	0.0842	68.1

№ 5434

[1975]

d-MANNONIC LACTONE -

2-BUTANOL



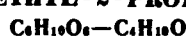
d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.0807	43.1	0.0415	44.9
0.0927	46.6	0.0487	49.2
0.125	52.0	0.0637	52.0
0.167	57.4	0.0827	58.5
0.237	64.7	0.115	64.9
0.285	68.7	0.152	71.9

№ 5435

[1975]

d-MANNONIC LACTONE -

2-METHYL-2-PROPANOL



d-Mannonic- γ -lactone		d-Mannonic- δ -lactone	
Solubility A, Mol.%	<i>t</i>	Solubility A, Mol.%	<i>t</i>
0.0938	35.2	0.0638	39.4
0.123	41.9	0.0752	43.4
0.173	48.7	0.0907	47.6
0.249	55.6	0.125	53.7
0.287	59.0	0.153	57.7
0.420	70.0	0.225	67.1

№ 5436

[1975]

**1 - RHAMNOSE -
1 - BUTANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_4H_{10}O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
1.82	98.18	32.3
2.22	97.78	40.9
3.27	96.73	47.6
4.20	95.80	53.6
4.66	95.34	55.2
6.24	93.76	61.0

№ 5437

[1975]

**1 - RHAMNOSE -
2 - METHYL - 1 - PROPANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_4H_{10}O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.13	97.87	40.4
2.77	97.23	44.8
3.64	96.36	51.4
4.32	95.68	55.0
5.81	94.19	61.2
7.26	92.74	66.6

№ 5438

[1975]

**1 - RHAMNOSE -
2 - BUTANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_4H_{10}O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
3.15	96.85	43.1
3.88	96.12	49.1
4.47	95.53	52.5
6.02	93.98	58.6
7.84	92.16	65.4
12.17	87.83	72.4

№ 5439

[1975]

**1 - RHAMNOSE -
2 - METHYL - 2 - PROPANOL**
 $C_6H_{12}O_5 \cdot H_2O - C_4H_{10}O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
3.82	96.18	42.4
5.65	94.35	53.2
6.63	93.37	57.1
8.02	91.98	62.3
10.23	89.77	67.4

№ 5440

[1975]

**d - MANNOSE -
1 - BUTANOL**
 $C_6H_{12}O_6 - C_4H_{10}O$

α - A		β - B	
Solubility Mol. %		Solubility Mol. %	<i>t</i>
0.089	42.9	0.068	41.3
0.101	47.1	0.082	51.2
0.116	51.0	0.101	55.8
0.142	55.8	0.127	60.1
0.199	62.9	0.165	65.1
0.280	69.6	0.248	72.6

№ 5441

[1975]

**d - MANNOSE -
2 - METHYL - 1 - PROPANOL**
 $C_6H_{12}O_6 - C_4H_{10}O$

α - A		β - B	
Solubility Mol. %	<i>t</i>	Solubility Mol. %	<i>t</i>
0.085	47.1	0.061	47.0
0.106	52.1	0.068	49.8
0.118	55.1	0.082	54.0
0.135	57.6	0.103	58.2
0.180	62.6	0.137	63.8
0.268	72.5	0.203	72.1

№ 5442

[1975]

**d - MANNOSE —
2 - BUTANOL**



A		B	
Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.132	46.1	0.093	45.1
0.162	50.8	0.116	48.7
0.199	55.4	0.144	53.9
0.209	56.4	0.175	58.0
0.280	66.0	0.238	65.2
0.436	76.1	0.300	70.6

№ 5443

[1975]

**d - MANNOSE —
2 - METHYL - 2 - PROPANOL**



A		B	
Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.208	45.3	0.204	47.9
0.226	47.3	0.245	52.3
0.271	52.8	0.317	58.1
0.307	54.2	0.409	65.0
0.445	64.2	0.485	69.5
0.518	68.7	0.586	74.0

№ 5444

[1975]

**d - MANNITOL —
1 - BUTANOL**



Solubility A, Mol. %	<i>t</i>
0.0131	58.5
0.0199	65.8
0.0207	67.1
0.0407	77.0
0.0648	84.2
0.0887	89.4
0.1337	95.2

№ 5445

[1975]

**d - MANNITOL —
2 - METHYL - 1 - PROPANOL**

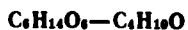


Solubility A, Mol. %	<i>t</i>
0.0110	57.5
0.0149	61.3
0.0195	67.4
0.0300	73.6
0.0538	83.3
0.0754	89.5
0.1636	101.8

№ 5446

[1975]

**d - MANNITOL —
2 - BUTANOL**



Solubility A, Mol. %	<i>t</i>
0.0164	53.5
0.0227	60.3
0.0286	66.1
0.0356	69.5
0.0432	73.0
0.0772	83.3
0.1904	100.8

№ 5447

[1975]

**d - MANNITOL —
2 - METHYL - 2 - PROPANOL**



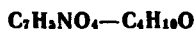
Solubility A, Mol. %	<i>t</i>
0.0203	43.1
0.0250	46.3
0.0391	55.0
0.0574	62.7
0.0845	71.5
0.1115	79.7
0.1487	90.3



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
7.0	93.0	0	34.2	65.8	80
9.5	90.5	10	42.2	57.8	90
12.1	87.9	20	50.1	49.9	100
14.7	85.3	30	58.8	41.2	110
17.5	82.5	40	69.2	30.8	120
20.7	79.3	50	83.4	16.6	130
24.2	75.8	60	100.0	0.0	142.4
28.8	71.2	70			



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
7.0	93.0	20	41.3	58.7	90
11.2	88.8	30	47.7	52.3	100
15.5	84.5	40	55.5	44.5	110
20.2	79.8	50	64.6	35.4	120
25.0	75.0	60	76.4	23.6	130
30.2	69.8	70	89.2	10.8	140
35.5	64.5	80	100.0	0.0	147.7

**p - NITROBENZOIC ACID –
ETHYL ETHER**

Solubility A, Wt.%	<i>t</i>
0.00413	25

№ 5451

[599, 1930]

**2, 4, 6 - TRINITROTOLUENE -
ETHYL ETHER**
 $C_7H_5N_3O_6 - C_4H_{10}O$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
1.70	98.30	0
2.04	97.96	5
2.39	97.61	10
2.77	97.23	15
3.18	96.82	20
3.66	96.34	25
4.36	95.64	30

№ 5452

[599, 1930]

TETRYL - ETHYL ETHER
 $C_7H_5N_4O_2 - C_4H_{10}O$

Solubility A, Wt.%	<i>t</i>
0.188	0
0.272	5
0.329	10
0.376	15
0.416	20
0.455	25
0.491	30

№ 5453

[367]

**BENZOIC ACID -
ETHYL ETHER**
 $C_7H_6O_2 - C_4H_{10}O$

Solubility A, Wt.%	<i>t</i>
23.86	15

№ 5454

[1719]

**BENZOIC ACID -
ETHYL ETHER**
 $C_7H_6O_2 - C_4H_{10}O$

Solubility A, Wt.%	<i>t</i>
21.6	23.5

№ 5455

[1809]

**m - HYDROXYBENZOIC ACID -
1 - BUTANOL**
 $C_7H_6O_3 - C_4H_{10}O$

Mutual Solubility Wt.%		<i>t</i>
A	B	
20.7	79.3	36.5
40.8	59.2	115.0
59.2	40.8	151.2
84.7	15.8	180.3

№ 5456

[2015]

**m - HYDROXYBENZOIC ACID -
ETHYL ETHER**
 $C_7H_6O_3 - C_4H_{10}O$

Solubility A, g/l	<i>t</i>
97.3	17

№ 5457 [1809]

**o-HYDROXYBENZOIC ACID –
1-BUTANOL**
 $C_7H_6O_3 - C_4H_{10}O$

Mutual Solubility Wt. %		<i>t</i>
A	B	
24.36	75.64	24.0
28.88	71.12	38.0
48.9	51.1	85.6
79.2	20.8	121.6

№ 5458 [1809]

**p-HYDROXYBENZOIC ACID –
1-BUTANOL**
 $C_7H_6O_3 - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
19.5	80.5	32.5
25.08	74.92	62.0
39.45	60.55	116.1
62.4	37.6	167.0
85.5	14.5	193.8

№ 5459 [2015]

**p-HYDROXYBENZOIC ACID –
ETHYL ETHER**
 $C_7H_6O_3 - C_4H_{10}O$

Solubility A, g/l	<i>t</i>
94.3	17

№ 5460 [1772]

**AMINONITROBENZOIC ACIDS –
ETHYL ETHER**
 $C_7H_6N_2O_4 - C_4H_{10}O$

Solubility A, g/l			<i>t</i>
or A	A	A	
108.4	17.0	64.1	2.7
160.5 (6.8°)	18.1	82.1	5.8

№ 5461 [1189]

**m-AMINOBENZOIC ACID –
1-BUTANOL**
 $C_7H_7NO_2 - C_4H_{10}O$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
22.4	77.6	130
30.6	69.4	140

№ 5462 **o-AMINOBENZOIC ACID – 1-BUTANOL**

[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
26.6	73.4	80	65.3	34.7	120
32.6	67.4	90	78.6	21.4	130
40.0	60.0	100	91.9	8.1	140
52.0	48.0	110			

p-AMINO BENZOIC ACID - 1-BUTANOL



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
28.7	71.3	130	63.7	36.3	160
39.3	60.7	140	76.7	23.3	170
51.1	48.9	150	90.3	9.7	180

№ 5464

[158]

ETHYL ETHER -
LUPININE HYDROCHLORIDE

Solubility A, Wt. %	<i>t</i>
0.0054	0
0.0094	20
0.0569	34.6

№ 5465

[1975]

α-METHYL - d - MANNOSIDE - 1 - BUTANOL



Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0539	45.8	0.218	67.5
0.107	56.1	0.289	73.1
0.109	56.2	0.628	91.1
0.165	62.7		

№ 5466

[1975]

α-METHYL - d - MANNOSIDE - 2 - METHYL - 1 - PROPANOL



Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0528	46.1	0.220	69.4
0.0746	51.1	0.284	74.3
0.104	56.0	0.361	80.1
0.154	63.5	0.418	83.0

№ 5467

[1975]

 **α -METHYL - d - MANNOSIDE -
2 - BUTANOL**

Solubility A, Mol. %	<i>t</i>
0.107	49.7
0.140	53.9
0.175	58.6
0.250	66.7
0.365	75.6
0.438	80.5
0.762	93.9

№ 5468

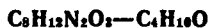
[1975]

 **α -METHYL - d - MANNOSIDE -
2 - METHYL - 2 - PROPANOL**

Solubility A, Mol. %	<i>t</i>
0.102	38.0
0.114	41.4
0.200	55.0
0.258	60.9
0.402	71.7
0.613	83.8

№ 5469

[1868]

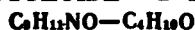
BARBITAL - ETHYL ETHER

Solubility A, g/l.	<i>t</i>
87	15

№ 5470

o - ACETOTOLUIDE - 1 - BUTANOL

[854]

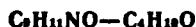


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
10.0	90.0	25	41.2	58.8	70
12.0	88.0	30	47.4	52.6	75
14.4	85.6	35	54.0	46.0	80
17.0	83.0	40	60.7	39.3	85
20.0	80.0	45	67.0	33.0	90
23.3	76.7	50	74.7	25.3	95
27.2	72.8	55	82.1	17.9	100
31.5	68.5	60	90.6	9.4	105
36.0	64.0	65	100.0	0.0	110.3

№ 5471

o-ACETOTOLUIDE - 2-METHYL-1-PROPANOL

[854]

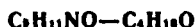


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
8.2	91.8	25	39.8	60.2	70
10.2	89.8	30	46.0	54.0	75
12.7	87.3	35	52.3	47.7	80
15.0	85.0	40	56.9	43.1	85
17.8	82.2	45	65.9	34.1	90
21.2	78.8	50	73.6	26.4	95
25.2	74.8	55	81.8	18.2	100
29.7	70.3	60	90.4	9.6	105
34.4	65.6	65	100	0	110.3

№ 5472

[1553]

p-ACETOTOLUIDE - 1-BUTANOL



Mutual Solubility, Mol.%		<i>t</i>
A	B	
4.49	95.51	32.6
10.32	89.68	59.5
23.96	76.04	82.8
31.28	68.72	95.9
39.82	60.18	106.0
52.15	47.85	116.0
66.56	33.44	127.7
81.72	18.28	137.8
100.0	0.0	148.5

№ 5473

p-ACETOTOLUIDE - 2-METHYL-1-PROPANOL

[1553]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
7.169	92.831	51.4	52.42	47.58	116.5
10.45	89.55	62.8	62.96	37.04	125.0
21.73	78.27	85.1	72.59	27.41	130.9
31.64	68.36	97.9	100.0	0.0	148.5
41.20	58.80	106.5			

p-ACETOTOLUIDE – 2-METHYL-2-PROPANOL
 $C_9H_{11}NO - C_4H_{10}O$

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
7.44	92.56	55.2	50.88	49.12	117.7
15.27	84.73	77.6	64.49	35.51	128.1
21.09	78.91	87.1	76.94	23.06	136.6
31.47	68.53	100.1	100.0	0.0	148.5
40.75	59.25	109.5			

o-ACETOTOLUIDE – ETHYL ETHER
 $C_9H_{11}NO - C_4H_{10}O$

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.9	99.1	25	11.7	88.3	70
1.3	98.7	30	22.0	78.0	75
1.5	98.5	35	36.0	64.0	80
1.8	98.2	40	47.7	52.3	85
2.0	98.0	45	59.7	40.3	90
2.4	97.6	50	69.8	30.2	95
3.1	96.9	55	79.9	20.1	100
4.5	95.5	60	89.6	10.4	105
6.9	93.1	65	100.0	0.0	110.3

p-ACETOTOLUIDE – ETHYL ETHER
 $C_9H_{11}NO - C_4H_{10}O$

Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
4.36	95.64	90.5	51.45	48.55	125.7
7.40	92.60	97.4	54.52	45.48	127.8
11.15	88.85	103.8	54.81	45.19	128.0
20.80	79.20	110.1	56.52	43.48	131.9
30.02	69.98	114.6	57.01	42.99	132.2
33.14	66.86	116.5	57.13	42.87	132.3
42.60	57.40	119.9	58.51	41.49	132.7
47.93	52.07	125.0	62.55	37.45	134.5
48.88	51.12	125.3	71.22	28.78	137.7
50.76	49.24	126.5	100.0	0.00	148.5

№ 5477

NAPHTHALENE - 1 - BUTANOL

[2024]

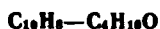


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.79	93.21	11.7	39.69	60.31	56.9
9.54	90.46	22.0	56.82	43.18	63.2
10.27	89.73	24.3	72.91	27.09	68.1
13.37	86.63	31.6	80.08	19.92	70.1
15.42	84.58	35.6	84.67	15.33	71.7
24.39	75.61	46.5	89.87	10.13	73.9
31.66	68.34	52.3	94.22	5.78	76.0

№ 5478

[1901]

NAPHTHALENE - 1 - BUTANOL



Mutual Solubility, Wt. %		<i>t</i>
A	B	
15.19	84.81	34.7
25.49	74.51	47.6
41.83	58.17	57.8
74.27	25.73	68.4

№ 5479

NAPHTHALENE - 2 - METHYL - 1 - PROPANOL

[1901]

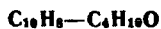


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.37	93.63	19.5	45.09	54.91	60.3
12.76	87.24	36.3	54.10	45.90	63.1
15.57	84.43	40.9	80.83	19.17	70.2
24.88	75.12	50.4			

№ 5480

NAPHTHALENE - 2 - BUTANOL

[1901]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
10.82	89.18	28.7	45.35	54.65	57.3
14.35	85.65	34.9	54.05	45.95	60.6
18.63	81.37	40.5	73.06	26.94	68.8
25.03	74.97	46.4			



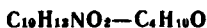
Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
10.77	89.23	31.6	43.61	56.39	57.8
14.49	85.51	37.8	57.31	42.69	62.4
23.61	76.39	47.3	71.64	28.36	66.6
27.76	72.24	50.2			

№ 5482

[1926]

p-ACETOPHENETIDE -

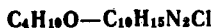
ETHYL ETHER



Solubility A, Wt. %	<i>t</i>
0.32	25

№ 5483

[156]

ETHYL ETHER -
ANABASINE HYDROCHLORIDE

Solubility A, Wt. %	<i>t</i>
0.0108	0
0.0108	20
0.0167	34.6

№ 5484

[156]

ETHYL ETHER -
ANABASINE HYDRIODIDE

Solubility A, Wt. %	<i>t</i>
0.0079	0
0.0081	20
0.0083	34.6

№ 5485

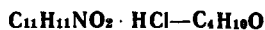
[1534]

CYMENE DISULFONAMIDE -
ETHYL ETHER

Solubility A, Wt. %	<i>t</i>
0.0727	25

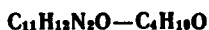
№ 5486

[1978]

HYDRASTININE HYDROCHLORIDE -
ETHYL ETHER

Solubility A, Wt. %	<i>t</i>
0.078	25

№ 5487

**ANTIPYRINE –
ETHYL ETHER**

Solubility A, Wt. %	<i>t</i>
1.28	25

[656]

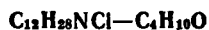
№ 5488

**CARBAZOLE –
ETHYL ETHER**

Mutual Solubility Wt. %		<i>t</i>
A	B	
2.48	97.52	15.5
2.82	97.18	30

[496]

№ 5489

DODECYLAMMONIUM CHLORIDE – 1 - BUTANOL

[933]

Mutual Solubility Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
7.98	92.02	28.0	47.57	52.43	56.6
13.30	86.70	34.1	48.71	51.29	57.3
19.96	80.04	39.6	49.30	50.70	57.6
24.96	75.04	43.0	49.92	50.08	59.2
33.29	66.71	48.1	53.26	46.74	68.8
39.94	60.06	52.1	57.08	42.92	79.5
44.40	55.60	54.7	66.60	33.40	106.0
46.45	53.55	55.9			

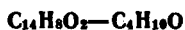
№ 5490

ANTHRAQUINONE – ETHYL ETHER

[1852]

Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
3	97	130	50	50	247
4	96	150	60	40	250
4.5	95.5	170	80	20	260
5.0	95	195	90	10	270
30	70	241	100	0	275
40	60	245			

№ 5491

**ANTHRAQUINONE –
ETHYL ETHER**

[908]

Solubility A, Wt. %	<i>t</i>
0.104	25

№ 5492 [840]
DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) —
ETHYL ETHER
 $C_{14}H_9Cl_5 - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
15.0	85.0	0.0
18.9	81.1	7.2
27.5	72.5	24.0

№ 5493 [496]
ANTHRACENE —
ETHYL ETHER
 $C_{14}H_{10} - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.69	99.31	15.5
1.02	98.98	30

№ 5494 [496]
PHENANTHRENE —
ETHYL ETHER
 $C_{14}H_{10} - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
8.20	91.80	15.5
13.22	86.78	30

№ 5495 [887]
PHENANTHRENE — ETHYL ETHER
 $C_{14}H_{10} - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
10.87	89.13	—10	23.45	76.55	15
12.89	87.11	— 5	26.89	73.11	20
14.85	85.15	0	30.17	69.83	25
17.11	82.89	5	33.52	66.48	30
19.25	80.75	10			

№ 5496 [1847]
p - DIMETHYLAMINOAZOBENZENE —
ETHYL ETHER
 $C_{14}H_{15}N_2 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
2.99	15.5

№ 5497 [156]

**ETHYL ETHER –
APHILIDINE CHLOROHYDRATE**
 $C_4H_{10}O - C_{15}H_{23}N_2ClO$

Solubility A, Wt. %	<i>t</i>
0.0224	0
0.0239	20
0.0312	34.6

№ 5499 [1293]

MORPHINE – ETHYL ETHER
 $C_{17}H_{19}NO_3 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
0.56	5.5

№ 5501 [1978]

COCAINE – ETHYL ETHER
 $C_{17}H_{21}NO_4 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
20.8	25

№ 5498 [156]

**ETHYL ETHER –
APHILIDINE IODOHYDRATE**
 $C_4H_{10}O - C_{15}H_{23}N_2IO$

Solubility A, Wt. %	<i>t</i>
0.0295	0
0.0305	20
0.0316	34.6

№ 5500 ACETYLCHOLINE 2, [1178]

**4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE – 1 - BUTANOL**
 $C_{17}H_{19}N_2O_6S - C_4H_{10}O$

Solubility A, g/1.	<i>t</i>
0.09	3
0.40	30

№ 5502 [1978]

CODEINE – ETHYL ETHER
 $C_{18}H_{21}NO_3 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
7.4	25

№ 5503 [1978]

**CODEINE PHOSPHATE –
ETHYL ETHER**
 $C_{18}H_{21}NO_3 \cdot H_3PO_4 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
0.075	25

№ 5504 9, 12 - OCTADECADIENOIC ACID – 1 - BUTANOL [932]

$C_{18}H_{32}O_2 - C_4H_{10}O$

Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility Wt. %		
A	B	<i>t</i>		A	B	<i>t</i>
7.4	92.6	–50	64.3	35.7	–20	
15.9	84.1	–40	89.7	10.3	–10	
35.9	64.1	–30	Completely miscible		0	

№ 5505

9-OCTADECENOIC ACID - 1-BUTANOL

[932]

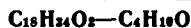


Mutual Solubility, Wt.%			Mutual Solubility, Wt.%		
A	B	<i>t</i>	A	B	<i>t</i>
1.3	98.7	-40	50.0	50.0	0
3.8	96.2	-30	90.4	9.6	10
13.2	86.8	-20	Completely miscible		20
36.1	63.9	-10			

№ 5506

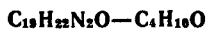
9-OCTADECENOIC ACID - ETHYL ETHER

[932]



Mutual Solubility, Wt.%			Mutual Solubility, Wt.%		
A	B	<i>t</i>	A	B	<i>t</i>
1.2	98.8	-40	66.1	33.9	0
4.2	95.8	-30	89.7	10.3	10
15.2	84.8	-20	Completely miscible		20
37.5	62.5	-10			

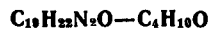
№ 5507

**CINCHONINE -
2-METHYL-1-PROPANOL**

[175]

Solubility A, Wt.%	<i>t</i>
1.07	19

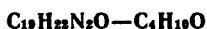
№ 5508

**CINCHONINE -
ETHYL ETHER**

[1099]

Solubility A, Wt.%	<i>t</i>
0.264	32

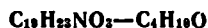
№ 5509

**CINCHONINE -
ETHYL ETHER**

[1825]

Solubility A, Wt.%	<i>t</i>
0.055	25

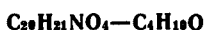
№ 5510

ETHYLMORPHINE - ETHYL ETHER

[1711]

Solubility A, Wt.%	<i>t</i>
40.0	25

№ 5511

**PAPAVERINE -
ETHYL ETHER**

[808]

Solubility A, Wt.%	<i>t</i>
0.38	10

№ 5512

QUININE - ETHYL ETHER

[1978]

Solubility A, Wt.%	<i>t</i>
18.2	25

№ 5513

[1418]

QUINIDINE – ETHYL ETHER

Solubility A, Wt. %	<i>t</i>
0.77	20

№ 5514

QUININE SALTS – ETHYL ETHER

[1978]

*t* = 25

Salt		Solubility A, Wt. %
Name	Formula	
Quinine	$C_{20}H_{24}N_2O_2$	18.17
Quinine Hydrate	$C_{20}H_{24}N_2O_2 \cdot 3H_2O$	43.47
Quinine Hydrochloride	$C_{20}H_{25}N_2O_2Cl \cdot 2H_2O$	0.415
Quinine Salicylate	$C_{27}H_{31}N_2O_2 \cdot 1/2H_2O$	0.902
Quinine Sulfate	$C_{20}H_{28}N_2O_6S \cdot 7H_2O$	0.056
Quinine Hydrobromide	$C_{20}H_{25}N_2O_2Br \cdot H_2O$	5.838

№ 5515

[1418]

STRYCHNINE – ETHYL ETHER

Solubility A, Wt. %	<i>t</i>
0.043	20

№ 5516

[1978]

STRYCHNINE – ETHYL ETHER

Pa	Solubility A, Wt. %	<i>t</i>
	0.018	25

№ 5517

[874]

STRYCHNINE – ETHYL ETHER

Solubility A, g/l.	<i>t</i>
0.34	15

№ 5518

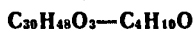
[1418]

BRUCINE – ETHYL ETHER

Solubility A, Wt. %	%	<i>t</i>
0.75		20

№ 5519

[615]

URSON – ETHYL ETHER

Solubility A, Wt. %	<i>t</i>
1.5	20

**DOTRIACONTANE –
ETHYL ETHER**
 $C_{32}H_{66} - C_4H_{10}O$

Mutual Solubility Wt. %		<i>t</i>
A	B	
4.25	95.75	32.5
10.7	89.3	38.3
29.1	70.9	45.6
35.9	64.1	47.1

№ 5521

GLYCEROL TRIDECANOATE – ETHYL ETHER
 $C_{33}H_{62}O_8 - C_4H_{10}O$

[1240]

Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility, Wt. %		
A	B			A	B	<i>t</i>
2.5	97.5	—15	29.0	71.0	2.5	
6.5	93.5	—10	37.5	62.5	5.0	
9.0	91.0	—7.5	54.0	46.0	10	
12.0	88.0	—5.0	66.5	33.5	15	
16.5	83.5	—2.5	80.0	20.0	20	
22.2	77.8	0	90.0	10.0	25	

№ 5522

[1978]

**CINCHONINE SULFATE –
ETHYL ETHER**
 $(C_{19}H_{22}N_2O)_2 \cdot H_2SO_4 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
0.04	25

№ 5523

[1978]

**CINCHONIDINE SULFATE –
ETHYL ETHER**
 $(C_{19}H_{22}N_2O)_2 \cdot H_2SO_4 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>
0.02	25

№ 5524

GLYCEROL TRIDODECANOATE – ETHYL ETHER
 $C_{33}H_{74}O_8 - C_4H_{10}O$

[1240]

Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility, Wt. %		
A	B			A	B	<i>t</i>
1.0	99.0	—5	21.5	78.5	15	
2.0	98.0	0	36.0	64.0	20	
2.7	97.3	2	52.2	47.8	25	
3.3	96.7	3	66.5	33.5	30	
3.7	96.3	4	78.0	22.0	35	
4.3	95.7	5	88.0	12.0	40	
10.2	89.8	10				

№ 5525 **GLYCEROL TRITETRADECANOATE – ETHYL ETHER** [1240]
 $C_{45}H_{98}O_8 - C_4H_{10}O$

Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.4	5	31.5	30
1.0	10	49.5	35
2.5	15	64.0	40
6.5	20	76.5	45
15.0	25	88.0	50

№ 5526 **GLYCEROL TRIHEXADECANOATE – ETHYL ETHER** [1240]
 $C_{51}H_{98}O_8 - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.7	99.3	20	32.2	67.8	40
2.4	97.6	25	70.5	29.5	50
6.5	93.5	30	90.0	10.0	60
15.5	84.5	35			

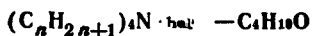
№ 5527 **GLYCEROL TRIOCTADECANOATE – ETHYL ETHER** [1240]
 $C_{57}H_{110}O_8 - C_4H_{10}O$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.3	99.7	20	27.5	72.5	45
0.5	99.5	25	43.0	57.0	50
2.0	98.0	30	72.5	27.5	60
5.5	94.5	35	94.0	6.0	70
13.5	86.5	40			

№ 5528 **ETHYL ETHER –** [150]
APHILINE CHLOROHYDRATE
 $C_4H_{10}O -$

Solubility A, Wt. %	<i>t</i>
0.0500	0
0.0625	20
0.1634	34.6

TETRAALKYLAMMONIUM HALIDES — 1-BUTANOL



$$t = 25$$

Salt		Solubility A, Wt. %
Name	Formula	
Tetramethylammonium Chloride	$C_4H_{12}NCl$	4.20
Tetramethylammonium Bromide	$C_4H_{12}NBr$	0.062
Tetraethylammonium Bromide	$C_8H_{20}NBr$	20.52
Tetraethylammonium Iodide	$C_8H_{20}NI$	0.19
Tetrapropylammonium Bromide	$C_{12}H_{26}NBr$	45.75
Tetrapropylammonium Iodide	$C_{12}H_{26}NI$	6.10
Tetrabutylammonium Iodide	$C_{16}H_{36}NI$	38.38

№ 5530

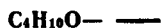
[1407]

 CHOLESTEROL DIGITONIDE —
 ETHYL ETHER


Solubility A, g/l	t
0.007	20

№ 5531

[533]

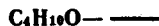
 1-BUTANOL —
 VARIOUS SOLVENTS


$$t = 4.5$$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylene- tetramine	$C_6H_{18}N_4$	34.5
Hexamethylene- diamine	$C_6H_{16}N_2$	32.1

№ 5532

[533]

 2-BUTANOL —
 VARIOUS SOLVENTS


$$t = 4.5$$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylene- tetramine	$C_6H_{18}N_4$	36.0
Hexamethylene- diamine	$C_6H_{16}N_2$	38.5

**2 - METHYL - 2 - PROPANOL -
VARIOUS SOLVENTS**



$$t = 45$$

Solvent		Solubility A, Mol. %
Name	Formula	
Triethylene- tetramine	$C_6H_{18}N_4$	37.6
Hexamethylene- diamine	$C_6H_{16}N_2$	36.4

№ 5534

[1878]

**TETRAMETHYLENE GLYCOL -
BENZENE**
 $C_4H_{10}O_2 - C_6H_6$

Solubility A, Mol. %	<i>t</i>
0.301	27.0
0.449	36.4
0.697	47.3
1.075	58.7

№ 5535

[1878]

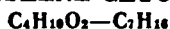
**TETRAMETHYLENE GLYCOL -
CYCLOHEXANE**
 $C_4H_{10}O_2 - C_6H_{12}$

Solubility A, Mol. %	<i>t</i>
0.0192	33.2
0.0348	44.1
0.0651	56.7
0.1179	68.4

№ 5536

TETRAMETHYLENE GLYCOL - HEPTANE

[1878]



Solubility A, Mol. %	<i>t</i>	Solubility A, Mol. %	<i>t</i>
0.0278	39.3	0.0564	52.7
0.0379	44.8	0.0927	62.9
0.0385	45.0		

№ 5537

BENZENE - DIETHYLENE GLYCOL

[1037]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B		A	B	
97.3	2.7	19	76.8	23.2	85	47.0	53.0	86
94.8	5.2	45	71.6	28.4	87	35.8	64.2	67
92.95	7.05	56	62.6	37.4	87	31.8	68.2	42.5
92.1	7.9	60.5	59.4	40.6	88	31.5	68.5	45
87.5	12.5	74.5	56.4	43.6	88.5	31.2	68.8	43
80.9	19.1	81.5	53.5	46.5	88.5	31.0	69.0	< 5
						30.8	69.2	< 5

№ 5538

[1110]

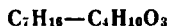
**BENZENE – DIETHYLENE
GLYCOL**
 $C_6H_6 - C_4H_{10}O_2$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
34.20	65.80	20
34.50	65.50	40
36.70	63.30	60

№ 5539

HEPTANE – DIETHYLENE GLYCOL

[1037]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.391	99.61	<5	3.59	96.41	177
0.542	99.46	11	96.92	3.08	168
0.780	99.22	53	97.82	2.18	144
1.037	98.96	80.5	99.81	0.186	72
1.29	98.71	94.5	99.93	0.073	50.5
1.98	98.02	133.5			

№ 5540

[585]

**1, 2, 3, 4 - BUTANETETROL –
PYRIDINE**
 $C_4H_{10}O_4 - C_5H_5N$

Solubility A, Wt. %	<i>t</i>
2.44	20

№ 5541

[1738]

COCAINE – DIETHYLAMINE
 $C_{17}H_{21}NO_4 - C_4H_{11}N$

Solubility A, Wt. %	<i>t</i>
26.4	20

№ 5542

[1738]

CINCHONINE – DIETHYLAMINE
 $C_{19}H_{23}N_2O - C_4H_{11}N$

Solubility A, Wt. %	<i>t</i>
1.28	20

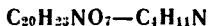
№ 5543

[1738]

PAPAVERINE – DIETHYLAMINE
 $C_{20}H_{21}NO_4 - C_4H_{11}N$

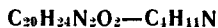
Solubility A, Wt. %	<i>t</i>
0.4	20

№ 5544 [1738]

NARCOTINE – DIETHYLAMINE

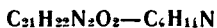
Solubility A, Wt. %	<i>t</i>
0.4	20

№ 5545 [1738]

QUININE – DIETHYLAMINE

Solubility A, Wt. %	<i>t</i>
36.3	20

№ 5546 [1738]

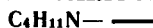
STRYCHNINE – DIETHYLAMINE

Solubility A, Wt. %	<i>t</i>
1.67	20

№ 5547 [1738]

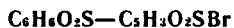
BRUCINE – DIETHYLAMINE

Solubility A, Wt. %	<i>t</i>
1.6	20

№ 5548 **BUTYLAMINE – VARIOUS SOLVENTS** [533]*t* = 4.5

Solvent		Solubility A, Mol. %	Solvent		Solubility A, Mol. %
Name	Formula		Name	Formula	
Ethylene Glycol	$C_2H_6O_2$	40.0	Hexamethylene- diamine	$C_6H_{16}N_2$	14.4
Diethylene Glycol	$C_4H_{10}O_3$	38.4	Triethylene- tetramine	$C_8H_{18}N_4$	14.5
Triethylene Glycol	$C_6H_{14}O_4$	40.5			
Tetraethylene Glycol	$C_8H_{18}O_5$	41.0			

№ 5549 [1379]

5 - METHYL - 2 - THIOPHENECARBOXYLIC ACID –**5 - BROMO - 2 - THIOPHENECARBOXYLIC ACID**

Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
0.0	100.0	141.0	60.2	39.8	125.2
11.8	88.2	140.2	64.0	36.0	127.6
19.7	80.3	139.0	72.8	27.2	128.8
25.2	74.8	137.8	75.9	24.1	131.4
28.8	71.2	135.4	84.8	15.2	133.6
37.9	62.1	133.0	88.8	11.2	136.0
50.0	50.0	129.0	100.0	0.0	139.0
52.3	47.7	124.8			

№ 5550 [1379]

p - BROMOBENZOIC ACID -
5 - BROMO - 2 - THIOPHENE-
CARBOXYLIC ACID
 $C_7H_5O_2Br - C_5H_3O_2SBr$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.0	100.0	141.0
5.0	95.0	143.8
18.4	81.6	181.6
25.7	74.3	187.6
39.3	60.7	206.6
43.4	56.6	210.4
58.8	41.2	228.4
70.2	29.8	237.8
80.6	19.4	245.6
84.6	15.4	249.0
100.0	0.0	253.0

№ 5551 [1379]

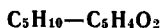
4 - METHYLBENZOIC ACID -
5 - BROMO - 2 - THIOPHENE-
CARBOXYLIC ACID
 $C_8H_5O_2 - C_5H_3O_2SBr$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.0	100.0	141.0
6.6	93.4	139.6
19.0	81.0	138.2
28.5	71.5	146.2
39.8	60.2	150.6
49.1	50.9	157.0
58.0	42.0	162.0
69.6	30.4	168.8
86.9	13.1	175.8
100.0	0.0	178.0

№ 5552

CYCLOPENTANE - FURFURAL

[1523]

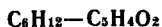


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
20.09	79.91	19.3	89.70	10.30	35.3
23.61	76.39	27.7	92.79	7.21	25.2
24.82	75.18	30.4	94.52	5.48	18.0
29.72	70.28	38.2	94.78	5.22	16.2
86.82	13.18	41.4			

№ 5553

CYCLOHEXANE - FURFURAL

[1523]

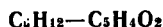


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
11.68	88.32	17.2	79.10	20.90	60.2
12.89	87.11	21.1	84.31	15.69	54.3
17.01	82.99	35.3	91.25	8.75	38.7
19.84	80.16	43.0	93.30	6.70	28.7
24.94	75.06	51.6	93.35	6.65	30.4
30.18	69.82	58.2	94.35	5.65	26.4
39.90	60.10	64.7	94.61	5.39	27.0
49.66	50.34	66.3	94.68	5.32	23.0
60.02	39.98	66.2	91.96	5.04	16.3
69.75	30.25	65.3			

№ 5554

METHYLCYCLOPENTANE – FURFURAL

[1523]

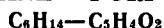


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
10.49	89.51	10.2	49.72	50.28	67.3
12.60	87.40	21.2	57.69	42.31	67.3
12.66	87.34	19.6	69.68	30.32	65.6
14.80	85.20	30.3	79.80	20.20	59.0
19.98	80.02	44.7	85.28	14.72	50.8
25.22	74.48	53.7	87.12	12.88	46.9
30.11	69.89	60.0	87.35	12.65	46.9
39.50	60.50	65.0	89.81	10.19	38.7
39.67	60.33	65.0	91.59	8.41	25.6

№ 5555

HEXANE – FURFURAL

[1523]

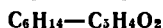


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
4.82	95.18	2.2	15.09	84.91	60.8
7.51	92.49	24.8	86.83	13.17	60.6
7.83	92.17	28.0	90.29	9.71	49.2
9.88	90.12	38.7	92.09	7.91	41.4
9.96	90.04	37.4	94.78	5.22	26.4

№ 5556

2-METHYLPENTANE – FURFURAL

[1523]

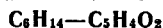


Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
6.76	93.24	21.5	89.84	10.16	52.5
9.00	91.00	37.0	91.71	8.29	45.2
10.65	89.35	45.1	93.77	6.23	34.0
11.91	88.09	52.0	95.87	4.13	20.8
14.30	85.70	60.0			

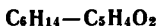
№ 5557

2, 2-DIMETHYLBUTANE – FURFURAL

[1523]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
6.13	93.87	14.5	92.49	7.51	40.1
8.15	91.85	27.6	93.82	6.18	35.2
9.93	90.07	35.8	94.52	5.48	30.6
11.05	88.95	43.8	96.11	3.89	19.0
92.43	7.57	43.5			



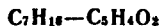
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
6.24	93.76	12.0	13.09	86.91	50.0
7.98	92.02	24.3	92.47	7.53	40.0
8.07	91.93	23.4	94.71	5.29	28.4
10.01	89.99	35.8	96.01	3.99	18.4
10.83	89.17	37.5			



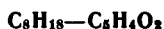
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.96	95.04	21.0	59.91	40.09	91.8
5.02	94.98	21.6	70.07	29.93	85.7
7.53	92.47	40.2	79.94	20.06	73.6
10.14	89.86	55.9	84.22	15.78	64.8
14.97	85.03	72.5	90.00	10.00	48.8
20.04	79.96	83.6	92.44	7.56	37.6
27.51	72.49	91.0	94.55	5.45	26.7
37.32	62.68	93.6	95.06	4.94	24.4
48.92	51.08	93.7			



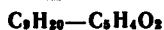
Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
7.81	92.19	13.9	60.01	39.99	72.6
9.70	90.30	24.5	69.88	30.12	69.9
12.82	87.18	37.2	79.90	20.10	61.3
15.69	84.31	46.4	84.85	15.15	53.8
20.22	79.78	56.8	90.19	9.81	40.8
30.29	69.71	69.0	92.29	7.71	32.8
39.49	60.51	72.8	92.31	7.69	32.8
49.70	50.30	73.2	94.22	5.78	24.0



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.01	95.99	9.9	83.98	16.02	68.0
5.71	94.29	28.3	84.90	15.10	66.6
8.20	91.80	45.2	89.99	10.01	51.3
10.08	89.92	55.8	93.19	6.81	34.8
11.91	83.09	64.0	94.97	5.03	24.8
14.95	85.05	74.7	95.95	4.05	17.0



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
2.89	97.11	5.2	19.98	80.02	91.8
4.48	95.52	25.5	69.72	30.28	90.4
5.65	94.35	39.2	80.03	19.97	76.5
8.16	91.84	54.9	90.00	10.00	49.6
9.94	90.06	64.6	92.15	7.85	39.1
15.00	85.00	82.1	94.90	5.10	25.2



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
2.39	97.61	14.8	49.98	50.02	103.4
3.61	96.39	33.5	59.80	40.20	100.0
4.99	95.01	48.6	69.60	30.40	92.2
6.98	93.02	63.5	79.73	20.27	76.4
10.17	89.83	79.6	84.77	15.23	65.6
15.04	84.96	92.9	90.01	9.99	48.1
19.91	80.09	99.9	92.01	7.99	38.5
19.91	80.09	100.6	93.63	6.37	30.2
30.09	69.91	104.1	94.78	5.22	23.2
39.99	60.01	104.4			



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.1	99.9	-30	12.8	87.2	10
0.3	99.7	-20	21.2	78.8	20
1.3	98.7	-10	Completely miscible		>26.2
4.5	95.5	0			



Mutual Solubility Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	133.0	71.5	28.5	113.0
7.8	92.2	131.0	78.0	22.0	115.2
18.8	91.2	127.2	85.2	14.8	122.6
33.3	66.7	118.0	90.8	9.2	123.4
37.8	62.2	115.2	95.5	4.5	126.3
49.2	50.8	107.6	100.0	0.0	128.0
57.9	42.1	106.8			

**2 - PYRROLECARBOXYLIC ACID –
2 - THIOPHENECARBOXYLIC ACID**



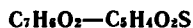
Mutual Solubility, wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	128.0	38.7	61.3	158.4
9.7	90.3	129.4	48.2	51.8	164.0
19.4	80.6	140.6	100.0	0.0	190.0
29.0	71.0	154.6			

BENZOIC ACID – 3 - THIOPHENECARBOXYLIC ACID



Mutual Solubility, wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	138.0	61.5	38.5	108.0
9.5	90.5	132.6	66.2	33.8	108.8
15.9	84.1	131.2	70.2	29.8	108.0
25.0	75.0	122.6	76.1	23.9	115.4
37.8	62.2	107.8	79.4	20.6	117.2
41.4	58.6	105.4	80.0	20.0	116.0
42.8	57.2	106.0	87.5	12.5	118.2
47.7	52.3	104.2	90.0	10.0	119.0
52.0	48.0	107.2	95.0	5.0	120.0
57.8	42.2	107.0	100.0	0.0	122.0

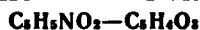
BENZOIC ACID – 3 - THIOPHENECARBOXYLIC ACID



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	128.0	55.5	44.5	104.8
8.4	91.6	123.8	71.0	29.0	109.2
17.1	82.9	120.4	76.7	23.3	111.6
20.7	79.3	118.6	83.5	16.5	116.2
30.8	69.2	115.2	86.0	14.0	117.0
38.3	61.7	112.0	90.3	9.7	120.6
41.5	58.5	110.2	100.0	0.0	122.0
44.5	55.5	109.2			

№ 5569

[1380]

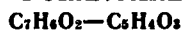
2 - PYRROLECARBOXYLIC ACID – FURANCARBOXYLIC ACID

Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	133.0	39.8	60.2	149.6
8.7	91.3	129.2	70.5	29.5	166.8
18.6	81.4	131.4	100.0	0.0	190.0
29.6	70.4	144.6			

№ 5570

BENZOIC ACID – FURANCARBOXYLIC ACID

[1379]



Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	133.0	57.0	43.0	95.2
10.4	89.6	127.2	66.9	33.1	96.0
21.7	78.3	124.0	77.5	22.5	105.5
28.9	71.1	121.5	86.5	13.5	110.8
42.0	58.0	114.5	100.0	0.0	122.0
48.6	51.4	109.2			

№ 5571

[1380]

3 - PYRIDINECARBOXYLIC ACID – PYRAZINECARBOXYLIC ACID

Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	226.0	59.6	40.4	208.6
8.9	91.1	215.6	71.5	28.5	215.2
17.1	82.9	214.0	77.1	22.9	219.8
29.7	70.3	211.6	88.3	11.7	228.6
37.7	62.3	207.6	100.0	0.0	233.0
50.0	50.0	207.0			

№ 5572

[1380]

4 - PYRIDINECARBOXYLIC ACID – PYRAZINECARBOXYLIC ACID

Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	226.0	30.0	70.0	252.2
10.3	89.7	214.2	86.8	13.2	308.0
20.2	79.8	230.8	100.0	0.0	314.0

№ 5573

[1380]

2 - PYRIDINECARBOXYLIC ACID – PYRAZINECARBOXYLIC ACID
 $C_6H_5NO_2 - C_5H_4N_2O_2$

Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	226.0	60.8	39.2	186.6
10.8	89.2	208.8	68.0	32.0	180.8
20.4	79.6	202.6	80.3	19.7	164.2
29.0	71.0	200.2	92.4	7.6	139.6
40.4	59.6	194.8	100.0	0.0	137.0
50.5	49.5	192.4			

№ 5574

[1379]

BENZOIC ACID – PYRAZINECARBOXYLIC ACID

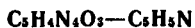


Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
0.0	100.0	226.0	56.6	43.4	186.2
9.1	90.9	205.0	62.6	37.4	184.0
18.8	81.2	204.2	75.0	25.0	173.4
25.8	74.2	203.2	87.2	12.8	159.4
35.8	64.2	198.4	95.8	4.2	127.8
41.8	58.2	194.2	100.0	0.0	122.0

№ 5575

[585]

URIC ACID – PYRIDINE



Solubility A, Wt.%	<i>t</i>
0.21	20

№ 5576

[1589]

URIC ACID – QUINOLINE

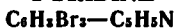


Solubility A, Wt.%	<i>t</i>
1.12	20

№ 5577

[585]

**1, 2, 4 - TRIBROMOBENZENE –
PYRIDINE**

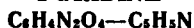


Solubility A, wt.%	<i>t</i>
19.55	20

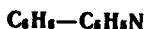
№ 5578

[585]

**m - DINITROBENZENE –
PYRIDINE**



Solubility A, Wt.%	<i>t</i>
51.5	20



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0	100	-39.4	37.7	62.3	-40
10	90	-45	46	54	-30
17	83	-50	57	43	-20
23.3	76.7	-55	71.5	28.5	-10
26	74	-58	90.5	9.5	0
31	69	-50			

1, 3, 5 - BENZENETRIOL - PYRIDINE



Solubility A, Wt. %	<i>t</i>
74.7	20

d - GLUCOSE - PYRIDINE



Solubility A, Wt. %	<i>t</i>
7.08	20

GALCTOSE - PYRIDINE



Solubility A, Wt. %	<i>t</i>	d_4^{26}
5.17	26	1.0065

MANNITOL - PYRIDINE



Solubility A, Wt. %	<i>t</i>
0.47	26

2, 4, 6 - TRINITROTOLUENE - PYRIDINE



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
57.80	42.20	20	78.72	21.28	50
61.24	38.76	25	82.20	17.80	55
64.79	35.21	30	85.71	14.29	60
68.25	31.75	35	89.28	10.72	65
71.83	28.17	40	92.59	7.41	70
75.12	24.88	45	96.09	3.91	75

№ 5585

[585]

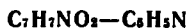
BENZAMIDE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
23.8	20

№ 5586

o - AMINO BENZOIC ACID – PYRIDINE

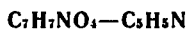
[49]



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	<i>t</i>	A	B	<i>t</i>
44.6	55.4	8	64.6	35.4	55
50.3	49.7	17	69.5	30.5	78
55.1	44.9	21.5	79.9	20.1	111
59.9	40.1	25.7	100.0	0.0	145
62.0	38.0	30			

№ 5587

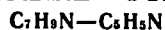
[585]

AZOLITMINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
0.05	20

№ 5588

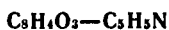
[585]

p - TOLUIDINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
55.7	20

№ 5589

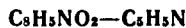
[585]

PHTHALIC ANHYDRIDE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
45.5	20

№ 5590

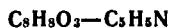
[585]

PHTHALIMIDE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
12.39	20

№ 5591

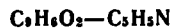
[585]

4 - HYDROXY - 3 - METHOXY - BENZALDEHYDE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
75.9	20

№ 5592

[585]

COUMARIN – PYRIDINE

Solubility A, Wt. %	<i>t</i>
46.7	20

№ 5593

[585]

p-ACETOPHENETIDE - PYRIDINE

Solubility A, Wt. %	<i>t</i>
14.81	20

№ 5594

[585]

ANTIPYRINE - PYRIDINE

Solubility A, Wt. %	<i>t</i>
27.5	20

№ 5595

[496]

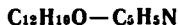
CARBAZOLE - PYRIDINE**(HYDRATED)**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.42	99.58	15.5
0.80	99.20	30
1.66	98.34	50
4.49	95.51	80

№ 5596

m-PHENYLPHENOL - PYRIDINE

[879]

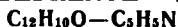


Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
0.00	100.0	-41.7	45.68	54.32	34.3
2.87	97.13	-43.0	49.75	50.25	35.5
9.76	90.24	-36.3	54.87	45.13	33.3
12.54	87.46	-25.3	59.86	40.14	26.0
15.92	84.08	-10.9	64.61	35.39	15.7
18.71	81.29	-0.9	68.98	31.02	21.5
24.97	75.03	10.4	74.92	25.08	36.5
27.67	72.33	15.2	85.36	14.64	57.9
31.62	68.38	22.2	89.87	10.13	64.0
35.75	64.25	27.2	95.72	4.28	71.1
41.19	58.81	31.9	100.00	0.00	75.3

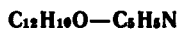
№ 5597

o-PHENYLPHENOL - PYRIDINE

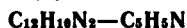
[879]



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
0.00	100.00	-41.7	49.39	50.61	38.2
3.21	96.79	-43.3	54.88	45.12	36.0
8.10	91.90	-43.1	61.39	38.61	28.2
10.52	89.48	-33.1	66.26	33.74	19.1
13.05	86.95	-23.0	73.88	26.12	22.4
14.54	85.46	-17.8	78.11	21.89	30.4
19.81	80.19	-1.4	80.34	19.66	33.9
24.86	75.14	8.8	88.53	11.47	45.9
29.52	70.48	17.0	91.24	8.76	49.4
35.10	64.90	25.8	94.41	5.59	52.5
39.65	60.35	31.5	100.00	0.00	57.1
43.11	56.89	34.5			



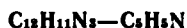
Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.00	100.00	-41.7	48.12	51.88	53.0
6.34	93.66	-45.5	49.83	50.17	59.7
8.40	91.60	-46.8	51.13	48.87	61.0
15.20	84.80	-41.3	51.64	48.36	62.1
19.98	80.02	-28.4	53.80	46.20	77.4
25.14	74.86	-15.2	55.31	44.69	87.1
28.13	71.87	-3.3	65.09	34.91	124.2
29.28	70.72	-1.1	66.64	33.36	127.0
30.86	69.14	2.5	69.84	30.16	133.0
33.76	66.24	6.0	73.12	26.88	138.5
36.13	63.87	9.8	74.86	25.14	141.4
37.15	62.85	10.4	80.46	19.54	148.4
38.15	61.85	15.2	87.77	12.23	155.5
40.05	59.95	23.6	90.06	9.94	157.6
44.00	56.00	38.7	100.00	0.00	165.1
46.03	53.97	45.6			

AZOBENZENE - PYRIDINE

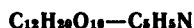
Solubility A, Wt. %	<i>t</i>
43.32	20

METHYL ORANGE - PYRIDINE

Solubility A, Wt. %	<i>t</i>
1.77	20

**DIAZOAMINO BENZENE -
PYRIDINE**

Solubility A, Wt. %	<i>t</i>
57.75	20

DEXTRIN - PYRIDINE

Solubility A, Wt. %	<i>t</i>
39.6	20

№ 5603

FLUORENE - PYRIDINE

[1401]



Mutual Solubility, Mol. %			Mutual Solubility, Mol. %		
A	B	<i>t</i>	A	B	<i>t</i>
5.1	94.9	0	31.4	68.6	60
10.1	89.9	20	49.9	50.1	80
18.3	81.7	40	75.5	24.5	100

№ 5604

[585]

PHENYL *o*-HYDROXYBENZOATE -
PYRIDINE

Solubility A, Wt. %	<i>t</i>
79.2	20

№ 5605

[585]

N, N'-DIPHENYLUREA -
PYRIDINE

Solubility A, Wt. %	<i>t</i>
6.41	20

№ 5606

[585]

1, 2-DIHYDROXYANTHRA -
QUINONE PYRIDINE

Solubility A,	<i>t</i>
Completely soluble	20

№ 5607

[840]

DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) - PYRIDINE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
21.0	79.0	0.0
36.0	64.0	7.2
51.0	49.0	24.0
62.0	38.0	48.0

№ 5608

[496]

ANTHRACENE - PYRIDINE
(HYDRATED)

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.0	100.0	15.5
<0.001	100.0	30
0.001	99.09	50
1.51	98.49	80

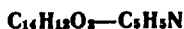
№ 5609

[496]

PHENANTHRENE - PYRIDINE
(HYDRATED)

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.43	99.57	15.5
1.30	98.70	30
6.89	93.11	50
9.99	90.01	80

№ 5610 [585]

BENZOIN – PYRIDINE

Solubility A, Wt.%	<i>t</i>
16.80	20

№ 5612 [585]

HELIANTHINE – PYRIDINE

Solubility A, g/l	<i>t</i>
7.5	20

№ 5614 [585]

CONGO RED – PYRIDINE

Solubility A, Wt.%	<i>t</i>
0.29	20

№ 5616 [585]

PIPERINE – PYRIDINE

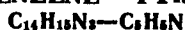
Solubility A, Wt.%	<i>t</i>
18.34	20

№ 5618 [585]

COCAINE – PYRIDINE

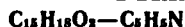
Solubility A, Wt.%	<i>t</i>
44.4	20

№ 5611 [585]

**N, N - DIMETHYLAMINO-
AZOBENZENE – PYRIDINE**

Solubility A, Wt.%	<i>t</i>
21.81	20

№ 5613 [585]

SANTONIN – PYRIDINE

Solubility A, Wt.%	<i>t</i>
11.28	20

№ 5615 [585]

**METHYLENE BLUE –
PYRIDINE**

Solubility A, Wt.%	<i>t</i>
0.26	20

№ 5617 [585]

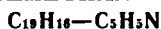
**p, p' - BIS - DIMETHYLAMINO-
BENZOPHENONE – PYRIDINE**

Solubility A, Wt.%	<i>t</i>
9.02	20

№ 5619 [585]

**PHENYLENEDIAZO - m -
PHENYLENEDIAMINE
HYDROCHLORIDE – PYRIDINE**

Solubility A, Wt.%	<i>t</i>
10.0	20

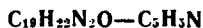


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
46.2	53.8	22.8	75.6	24.4	59.3
53.3	46.7	31.7	81.9	18.1	67.8
57.6	42.4	37.9	85.7	14.3	72.8
66.6	33.4	48.7	91.5	8.5	80.6
70.1	29.9	53.1	95.8	4.2	86.8

№ 5621

[1738]

CINCHONINE – PYRIDINE

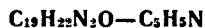


Solubility A, Wt. %	<i>t</i>
1.37	20

№ 5622

[585]

CINCHONIDINE – PYRIDINE



Solubility A, Wt. %	<i>t</i>
7.22	20

№ 5623

[585]

IDODOEOSIN – PYRIDINE

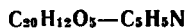


Solubility A, Wt. %	<i>t</i>
4.42	20

№ 5624

[585]

FLUORESCIEIN – PYRIDINE

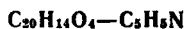


Solubility A, Wt. %	<i>t</i>
11.73	20

№ 5625

[585]

PHENOLPHTHALEIN – PYRIDINE

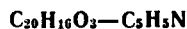


Solubility A, Wt. %	<i>t</i>
8.84	20

№ 5626

[585]

ROSOLIC ACID – PYRIDINE

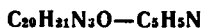


Solubility A, Wt. %	<i>t</i>
61.5	20

№ 5627

[585]

ROSANILINE – PYRIDINE

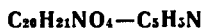


Solubility A, Wt. %	<i>t</i>
29.33	20

№ 5628

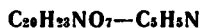
[1738]

PAPAVERINE – PYRIDINE



Solubility A, Wt. %	<i>t</i>
7.4	20

№ 5629 [1738]

NARCOTINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
2.25	20

№ 5630 [1738]

QUININE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
50.2	20

№ 5631 [960]

STRYCHNINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
1.22	26

№ 5632 [1738]

STRYCHNINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
1.48	20

№ 5633 [1738]

BRUCINE – PYRIDINE

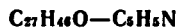
Solubility A, Wt. %	<i>t</i>
28.0	20

№ 5634 [585]

BRUCINE – PYRIDINE

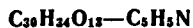
Solubility A, Wt. %	<i>t</i>
21.9	20

№ 5635 [585]

CHOLESTEROL – PYRIDINE

Solubility A, Wt. %	<i>t</i>
40.51	20

№ 5636 [585]

PICROTOXIN – PYRIDINE

Solubility A, Wt. %	<i>t</i>
50.49	20

№ 5637 [585]

CARMINE – PYRIDINE

Solubility A, Wt. %	<i>t</i>
3.23	20

№ 5638 [585]

CASEIN – PYRIDINE

Solubility A, Wt. %	<i>t</i>
0.09	20

№ 5639 [585]

ALBUMIN — PYRIDINE— — C₅H₅N

Solubility A, Wt. %	<i>t</i>
0.1	20

№ 5641 [585]

PEPTONE — PYRIDINE— — C₅H₅N

Solubility A, Wt. %	<i>t</i>
0.22	20

№ 5640 [585]

KERATIN — PYRIDINE— — C₅H₅N

Solubility A,	<i>t</i>
Dissolves completely	20

№ 5642 [585]

HEMOGLOBIN — PYRIDINE— — C₅H₅N

Solubility A, Wt. %	<i>t</i>
0.15	20

№ 5643

[585, 960]

PYRIDINE — VARIOUS SUGARSC₅H₅N — —*t* = 26

B		Solubility A, Wt. %	<i>d</i> ₄ ²⁶
Name	Formula		
Sucrose	C ₁₂ H ₂₂ O ₁₁	6.45	—
Lactose	C ₁₂ H ₂₂ O ₁₁ · H ₂ O	2.18	0.981
Glucose	<i>d</i> -C ₆ H ₁₂ O ₆ · H ₂ O	7.62	1.005
Fructose	<i>l</i> -C ₆ H ₁₂ O ₆	18.49	1.052
Galactose	C ₆ H ₁₂ O ₆	5.45	1.0065
Maltose	C ₁₂ H ₂₂ O ₁₁	49.52	—
Mannose	C ₆ H ₁₂ O ₆	23.02	—
Raffinose	C ₁₈ H ₃₂ O ₁₆ · 5H ₂ O	42.86	—

№ 5644

[1379]

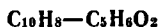
BENZOIC ACID — 2-PYRROLECARBOXYLIC ACIDC₇H₆O₂ — C₅H₅N₂

Mutual Solubility, wt. %		m.p	Mutual Solubility, wt. %		m.p
A	B		A	B	
0.0	100.0	190.0	61.1	38.9	165.0
10.3	89.7	180.4	70.7	29.3	158.2
20.6	79.4	178.4	81.4	18.6	153.2
28.7	71.3	176.2	91.0	9.0	127.6
38.3	61.7	172.8	100.0	0.0	122.0
49.0	51.0	171.2			

№ 5645

NAPHTHALENE - FURFURYL ALCOHOL

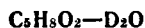
[1902]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
7.28	92.72	20	21.9	78.1	50
8.49	91.51	25	27.5	72.5	55
10.48	89.52	30	35.2	64.8	60
11.94	88.06	35	47.4	52.6	65
14.46	85.54	40	85.7	14.3	75
17.58	82.42	45			

№ 5646

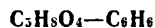
[1430]

2, 4 - PENTANEDIONE -
HEAVY WATER

Solubility A, Wt. %	<i>t</i>
10.6	19.5

№ 5647

[1989]

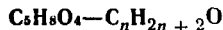
GLUTARIC ACID -
BENZENE

Solubility A, Wt. %	<i>t</i>
0.0163	25

№ 5648

METHYLSUCCINIC ACID - ALCOHOLS

[175]

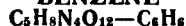


B		Mutual Solubility, Wt. %		<i>t</i>
Name	Formula	A	B	
Methanol	CH ₄ O	34.64	65.36	-18.5
"	"	52.34	47.66	19.0
"	"	52.94	47.06	19.5
Ethanol	C ₂ H ₆ O	41.45	58.55	19.0
"	"	42.00	58.00	19.5
Propanol	C ₃ H ₈ O	30.99	69.01	19.0
"	"	32.02	67.98	19.5

№ 5649

1, 2, 3, 4 - PENTANETETROL TETRANITRATE -
BENZENE

[1977]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.150	99.85	0	1.969	98.031	50
0.299	99.701	20	3.241	96.759	60
0.430	99.570	30	5.123	94.877	70
1.147	98.853	40	7.321	92.679	80.2

№ 5650

[1624]

**1, 2, 3, 4 - PENTANETETROL
TETRANITRATE - BENZENE**



Solubility A, Wt.%	<i>t</i>
0.274	20
0.493	30
0.827	40
1.427	50
2.523	60

№ 5651 1, 2, 3, 4 - PENTANETEROL TETRANITRATE - TOLUENE [1977]

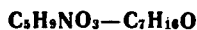


Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B	
0.150	99.850	0	2.429	97.571	60
0.170	99.830	10	3.185	96.815	70
0.220	99.780	20	5.527	94.473	80
0.428	99.572	30	8.358	91.642	90
0.616	99.384	40	13.730	86.270	100
1.088	98.912	50	23.640	76.360	113

№ 5652

[1275]

**N - FORMYL - 2 -
AMINOBUTANOIC
ACID - HEPTANOL**

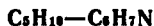


Solubility A, g/l.	<i>t</i>	d_4^{25}
6.55	25	0.8247

№ 5653

PENTENE - ANILINE

[78]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility Wt.%		<i>t</i>
A	B		A	B	
19.5	80.5	0	59.0	41.0	14
19.7	80.3	2	64.7	35.3	13
20.5	79.5	4	68.0	32.0	12
21.7	78.3	6	73.0	27.0	10
24.2	75.8	8	75.8	24.2	8
28.0	72.0	10	78.0	22.0	6
34.0	66.0	12	79.5	20.5	4
38.5	61.5	13	80.5	19.5	2
45.0	55.0	14	81.5	18.5	0
51.6	48.4	14.5			

№ 5654

[142]

**CELLULOSE ACETATE*—
2 - PENTANONE**
— — $C_5H_{10}O$

Solubility A, Wt. %	<i>t</i>
0.38	10
0.77	94
2.5	117

№ 5655

[1738]

COCAINE — PIPERIDINE
 $C_{17}H_{21}NO_4—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
35.9	20

№ 5656

[1738]

CINCHONINE — PIPERIDINE
 $C_{19}H_{23}N_2O—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
3.38	20

№ 5657

[1738]

PAPAVERINE — PIPERIDINE
 $C_{20}H_{21}NO_4—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
1.0	20

№ 5658

[1738]

NARCOTINE — PIPERIDINE
 $C_{20}H_{23}NO_7—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
1.67	20

№ 5659

[1738].

QUININE — PIPERIDINE
 $C_{20}H_{24}N_2O_2—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
54.3	20

№ 5660

[1738]

STRYCHNINE — PIPERIDINE
 $C_{21}H_{22}N_2O_2—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
0.69	20

№ 5661

[1738]

BRUCINE — PIPERIDINE
 $C_{22}H_{26}N_2O_4—C_5H_{11}N$

Solubility A, Wt. %	<i>t</i>
1.0	20

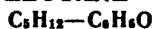
* Characteristics of A: 54.61% of AcOH, specific viscosity 0.62 (0.25% solution)
0.18% ash content

**PIPERIDINE HYDROCHLORIDE —
VARIOUS SOLVENTS**



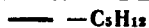
Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	592.2	0
"	"	631.1	25
Tetrachlorethane (sat. with H ₂ O)	C ₂ H ₂ Cl ₄	15.81	0
"	"	35.26	25
Nitrobenzene	C ₆ H ₅ NO ₂	0.660	25
Benzene	C ₆ H ₆	0.124	25

2 - METHYL BUTANE — PHENOL



Solubility A, Wt. %		t	Solubility A, Wt. %		t
A	B		A	B	
4.5	95.5	20	58.0	42.0	65
7.0	93.0	30	68.0	32.0	60
11.5	88.5	40	75.5	24.5	50
18.0	82.0	50	80.0	20.0	40
29.5	70.5	60	83.5	16.5	30
40.0	60.0	65	87.0	13.0	20
50.0	50.0	66			

PARAFFIN* — PENTANE



Solubility A, Wt. %	t
7.49	10
9.91	15
13.12	20
21.38	25

* m.p. 56°, d_4^{20} 0.775.

№ 5665

[1835]

**PICRIC ACID –
- PENTANOL**
 $C_6H_3N_3O_7 - C_5H_{12}O$

Solubility A, g/l.	<i>t</i>
17.55	20

№ 5666

[1825]

**CINCHONINE – 3-METHYL-
1-BUTANOL**
 $C_{19}H_{22}N_2O - C_5H_{12}O$

Solubility A, Wt.%	<i>t</i>
1.08	25

№ 5667

[1978]

**STRYCHNINE –
1-PENTANOL**
 $C_{21}H_{22}N_2O_2 - C_5H_{12}O$

Solubility A, Wt.%	<i>t</i>
0.54	25

№ 5668

[1878]

**1,5-PENTANEDIOL –
BENZENE**
 $C_5H_{12}O_2 - C_6H_6$

Solubility A, Mol.%	<i>t</i>
0.333	31.5
0.436	37.6
0.649	47.5
0.820	52.8

№ 5669

[1878]

**1,5-PENTANEDIOL –
CYCLOHEXANE**
 $C_5H_{12}O_2 - C_6H_{12}$

Solubility A, Mol.%	<i>t</i>
0.0292	40.9
0.0788	59.2
0.1074	65.6
0.1486	74.2

№ 5670

[1878]

**1,5-PENTANEDIOL –
HEPTANE**
 $C_5H_{12}O_2 - C_7H_{16}$

Solubility A, Mol.%	<i>t</i>
0.0401	46.2
0.0491	49.9
0.0754	58.0
0.1095	65.6

№ 5671 [1856]

**HEXACHLOROBENZENE -
BENZENE**
 $C_6Cl_6 - C_6H_6$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
0.77	99.23	8.77
1.02	98.98	19.92
1.47	98.53	29.93
2.09	97.91	41.88

№ 5672 [2055]

**HEXACHLOROBENZENE -
p - CYMENE**
 $C_6Cl_6 - C_{10}H_{14}$

Solubility A, Wt.%	<i>t</i>
2.84	23.5
14.36	100
51.68	176

№ 5673

[858]

2, 4, 6 - TRICHLORO - 1, 3, 5 - TRINITROBENZENE - NAPHTHALENE
 $C_6Cl_2N_3O_6 - C_{10}H_8$

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
100	0	187.0	48	52	129.8
93	7	183.0	45	55	130.0
80	20	171.2	41	59	127.2
69	31	158.3	29	71	108.9
63	37	149.8	20	80	89.0
52	48	135.0	10	90	74.3
49	51	134.2	0	100	80.0

№ 5674

[858]

2, 4, 6 - TRICHLORO - 1, 3, 5 - TRINITROBENZENE - HEXAMETHYLBENZENE
 $C_6Cl_2N_3O_6 - C_{12}H_{18}$

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
100	0	187.0	41	59	140.0
92	8	183.2	35	65	137.5
81	19	175.0	31	69	138.1
59	41	159.5	21	79	146.5
54	46	155.0	11	89	154.5
48	52	146.9	0	100	165.0
46	54	141.5			



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
15.7	84.3	8.77	24.2	75.8	29.93
18.4	81.6	19.92	33.4	66.6	41.88

NAPHTHALENE - 2, 4, 6 - TRICHLORO - 1, 3, 5 - TRINITROBENZENE


Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
0	100	187.0	55	45	130.0
7	3	183.0	59	41	127.2
20	80	171.2	71	29	108.9
31	69	158.3	80	20	89.0
37	63	149.8	90	10	74.3
48	52	135.0	100	0	80.0
51	49	134.2			

1 - CHLORO - 2, 4 - DINITROBENZENE - VARIOUS SOLVENTS


Solvent		Mutual Solubility Wt. %		<i>t</i>
Name	Formula	A	B	
Water	H ₂ O	0.0008	99.9992	15
"	"	0.041	99.959	50
"	"	0.159	99.841	100
Methyl Propanoate	C ₄ H ₈ O ₂	54.42	45.58	16
"	"	72.03	27.97	50
Acetone	C ₃ H ₆ O	72.82	27.18	16
"	"	84.17	15.83	30
Ethanol 96%	C ₂ H ₆ O	4.52	95.48	16
"	"	13.40	86.60	34
Ethanol	"	7.62	92.38	16
"	"	15.89	84.11	32.5
Methanol	CH ₄ O	10.10	89.90	16
"	"	24.45	75.55	32
Benzene	C ₆ H ₆	61.30	38.70	15
"	"	78.24	21.76	31
Chloroform	CHCl ₃	50.68	49.32	15
"	"	67.74	32.26	32
Ethyl Ether	C ₄ H ₁₀ O	19.04	80.96	15
"	"	56.16	43.84	30.5
Pyridine	C ₅ H ₅ N	20.84	79.16	15
"	"	17.25	82.75	1
Carbon Disulfide	CS ₂	4.04	95.96	15
"	"	22.40	77.60	31

Solvent		Mutual Solubility, Wt.%		t
Name	Formula	A	Solvent	
Carbon Tetrachloride	CCl ₄	3.71	96.29	15
"	"	43.50	56.50	31
Toluene	C ₇ H ₈	58.31	41.69	15
"	"	73.86	26.14	31.5

№ 5677a

[600]

1-CHLORO-2,4,6-TRINITROBENZENE — VARIOUS SOLVENTS
C₆H₂N₃O₆Cl — — —

Solvent		Mutual Solubility, Wt.%		t
Name	Formula	A	Solvent	
Methyl Propanoate	C ₄ H ₈ O ₂	47.79	52.21	17
"	"	70.44	29.56	50
Acetone	C ₃ H ₆ O	67.95	32.05	17
"	"	84.53	15.47	50
Ethanol 96%	C ₂ H ₆ O	2.63	97.37	17
"	"	9.79	90.21	50
Ethanol	"	4.63	95.37	17
"	"	13.09	86.91	50
Benzene	C ₆ H ₆	26.84	73.16	17
"	"	81.06	18.94	50
Chloroform	CHCl ₃	11.00	89.00	17
"	"	70.01	29.99	50
Pyridine	C ₅ H ₅ N	54.71	45.29	17
"	"	63.42	36.58	50
Carbon Tetrachloride	CCl ₄	0.557	99.443	17
"	"	2.39	97.61	50
Toluene	C ₇ H ₈	47.21	52.79	17
"	"	76.25	23.75	50
Ethyl Ether	C ₄ H ₁₀ O	6.74	93.26	17
"	"	9.62	90.38	31
Carbon Disulfide	CS ₂	4.98	95.02	17
"	"	9.41	90.59	30.5
Methanol	CH ₄ O	9.29	90.71	17
"	"	25.82	74.18	50

№ 5678

1,3,5-TRINITROBENZENE — 2,4-DINITROTOLUENE

[431]



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0	100	70.2	60	40	86.7
10	90	65.0	70	30	97.4
20	80	60.5	80	20	106.3
30	70	54.3	90	10	114.5
40	60	60.0	100	0	123.6
50	50	73.9			

**1, 3, 5 - TRINITROBENZENE –
VARIOUS SOLVENTS**
 $C_6H_3N_3O_6$ —

Solvent		Solubility A, Wt.%	t
Name	Formula		
Methanol	CH ₄ O	4.671	16
Ethanol	C ₂ H ₆ O	1.864	16
Carbon Disulfide	CS ₂	0.249	17.6
Chloroform	CHCl ₃	5.749	17.6
Benzene	C ₆ H ₆	5.838	16
Ethyl Ether	C ₄ H ₁₀ O	1.478	17.5
Methanol	CH ₄ O	13.94*	15.5
Ethanol	C ₂ H ₆ O	5.168*	15.5

№ 5680 1, 3, 5 - TRINITROBENZENE – VARIOUS SOLVENTS [600, 604]
 $C_6H_3N_3O_6$ —

Solvent		Mutual Solubility, Wt.%		t
Name	Formula	A	B	
Water	H ₂ O	0.0278	99.9722	15
"	"	0.102	99.898	50
"	"	0.496	99.504	100
Methyl Propanoate	C ₄ H ₈ O ₂	22.98	77.02	17
"	"	34.38	65.62	50
Acetone	C ₃ H ₆ O	37.15	62.85	17
"	"	61.64	38.36	50
Ethanol 96%	C ₂ H ₆ O	1.37	98.63	17
"	"	3.40	96.60	50
Ethanol	"	2.05	97.95	17
"	"	4.37	95.63	50
Methanol	CH ₄ O	3.62	96.38	17
"	"	7.08	92.92	50
Benzene	C ₆ H ₆	5.82	94.18	17
"	"	20.44	79.56	50
Chloroform	CHCl ₃	5.87	94.13	17
"	"	15.55	84.45	50
Ethyl Ether	C ₄ H ₁₀ O	1.67	98.33	17
"	"	2.65	97.35	32.5
Pyridine	C ₅ H ₅ N	52.96	47.04	17
"	"	66.01	33.99	50
Carbon Disulfide	CS ₂	0.239	99.761	17
"	"	0.418	99.582	33
Carbon Tetrachloride	CCl ₄	0.239	99.761	17
"	"	0.685	99.315	50
Toluene	C ₇ H ₈	10.57	89.43	17
"	"	43.28	56.72	50

* A compound - asymmetric.



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
3.568	96.432	5.0	20.73	79.27	38.4
5.096	94.904	10.0	25.13	74.87	45.0
6.795	93.205	15.0	33.62	66.38	55.0
8.726	91.274	20.0	36.88	63.12	58.7
11.24	88.76	25.0	41.63	58.37	65.0
11.90	88.10	26.5	49.18	50.82	75.0
17.61	82.39	35.0			

PICRIC ACID – TOLUENE

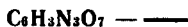


Solubility A, Wt.%	<i>t</i>	d_4^{20}
12.0	20	0.8566

PICRIC ACID – PETROLEUM
ETHER

Solubility A, Wt.%	<i>t</i>
0.04	15

PICRIC ACID – VARIOUS SOLVENTS



Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Carbon Tetrachloride	CCl_4	0.07	20
Chloroform	CHCl_3	1.826	20
p-Cymene	$\text{C}_{10}\text{H}_{14}$	2.545	25
Ethylene Glycol Diacetate	$\text{C}_8\text{H}_{10}\text{O}_4$	31.65	25

PICRIC ACID — VARIOUS SOLVENTS



Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Ethyl Acetate	$C_4H_8O_2$	28.27	16
" "		40.65	50
Acetone	C_3H_6O	55.20	16
"	"	68.80	50
Methanol	CH_4O	13.75	16
"		28.70	50
Ethanol 96%	C_2H_6O	8.425	16
" "	"	17.14	50
Ethanol	"	6.393	16
"	"	16.47	50
Benzene	C_6H_6	6.968	16
"	"	22.75	50
Chloroform	$CHCl_3$	1.98	16
"	"	5.366	50
Ethyl Ether	$C_4H_{10}O$	2.572	16
" "	"	3.809	34
Pyridine	C_5H_5N	21.64	16
"	"	37.08	50
Carbon Disulfide	CS_2	0.110	16
" "	"	0.180	34
Carbon Tetrachloride	CCl_4	0.065	16
" "	"	0.349	50
Toluene	C_7H_8	10.90	16
"	"	21.78	50

№ 5686 2, 4, 6 - TRINITRO - [1931]
1, 3 - BENZENEDIOL —
ETHYLENE GLYCOL DIACETATE
 $C_8H_3N_3O_8 - C_6H_{10}O_4$

Solubility A, Wt.%	<i>t</i>
11.5	20

№ 5687 [409]
1, 2, 4 - TRINITROBENZENE —
BENZENE
 $C_6H_3N_3O_6 - C_6H_6$

Solubility A, Wt.%	<i>t</i>
58.5	15.5

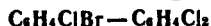
**1, 2, 3, 5 - TETRANITROANILINE -
VARIOUS SOLVENTS**



$$t = 0$$

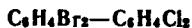
Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.007
Methanol	CH ₄ O	0.448
Ethanol	C ₂ H ₆ O	0.339
Ethyl Ether	C ₄ H ₁₀ O	0.081
Acetone	C ₃ H ₆ O	6.977
Chloroform	CHCl ₃	0.010
Carbon Tetrachloride	CCl ₄	0.0036
Carbon Disulfide	CS ₂	0.0056
Benzene	C ₆ H ₆	0.13
Toluene	C ₇ H ₈	0.188

№ 5689 p - CHLOROBROMOBENZENE - p - DICHLOROBENZENE [447]



Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
0.41	99.59	53.08	38.00	62.00	55.83
2.57	97.43	52.96	50.03	49.97	57.36
5.04	94.96	53.11	60.03	39.97	58.50
5.96	94.04	53.16	74.99	25.01	60.67
10.00	90.00	53.48	90.73	9.27	62.91
25.04	74.96	54.55	97.00	3.00	64.06

№ 5690 p - DIBROMOBENZENE - p - DICHLOROBENZENE [447]

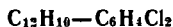


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
0.30	99.70	53.06	20.13	79.87	55.95
0.62	99.38	53.02	30.03	69.97	59.49
1.01	98.99	52.93	40.08	59.92	63.81
1.20	98.80	52.90	47.96	52.04	67.05
1.60	98.40	52.94	57.06	42.94	71.13
1.98	98.02	52.95	64.89	35.11	74.18
2.56	97.44	53.00	74.93	25.07	78.26
3.03	96.97	53.03	85.01	14.99	82.11
4.91	95.09	53.15	95.03	4.97	85.70
9.90	90.10	53.68			

№ 5691

BIPHENYL — p - DICHLOROBENZENE

[2026]

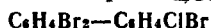


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
42.5	57.5	27.7	80.2	19.8	57.4
49.6	50.4	34.1	85.9	14.1	61.4
57.5	42.5	41.2	92.3	7.7	65.0
69.2	30.8	49.8			

№ 5692

p - DIBROMOBENZENE — p - CHLOROBROMOBENZENE

[447]

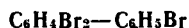


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
2.85	97.15	65.10	62.00	38.00	78.67
7.09	92.91	65.97	65.08	34.92	79.55
8.84	91.16	66.32	69.25	30.75	80.70
16.06	83.94	67.90	75.00	25.00	81.75
24.89	75.11	70.00	80.01	19.99	83.16
26.21	73.79	70.11	83.21	16.79	84.07
34.89	65.11	72.42	88.00	12.00	84.76
38.00	62.00	72.97	89.76	10.24	85.24
39.18	60.82	73.44	94.08	5.92	86.26
47.83	52.17	75.39	95.11	4.89	86.33
51.92	48.08	76.25	95.98	4.02	86.50
52.52	47.48	76.47	97.59	2.41	86.95
54.70	45.30	77.06	98.30	1.70	87.12

№ 5693

p - DIBROMOBENZENE — BROMOBENZENE

[1751]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
22	78	10	67	33	60
29	71	20	79	21	70
36	64	30	84	16	75
45	55	40	90	10	80
54	46	50			

№ 5694 **p-DIBROMOBENZENE** — [1401]
NITROBENZENE
 $C_6H_4Br_2-C_6H_5NO_2$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
6.9	93.1	0
14.4	85.6	20
27.9	72.1	40
49.1	50.9	60
81.1	18.9	80

№ 5695

p-DIBROMOBENZENE — **BENZENE**
 $C_6H_4Br_2-C_6H_6$

[1751]

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
34	66	10	71	29	50
43	57	20	80	20	60
53	47	30	88	12	70
62	38	40			

№ 5696

p-DIBROMOBENZENE — [1401]
BENZENE
 $C_6H_4Br_2-C_6H_6$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
11.0	89.0	0
20.2	79.8	20
34.9	65.1	40
55.7	44.3	60
84.5	15.5	80

№ 5697

p-DIBROMOBENZENE — [1401]
ANILINE
 $C_6H_4Br_2-C_6H_7N$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.3	96.7	0
8.5	91.5	20
19.7	80.3	40
39.6	60.4	60
77.6	22.4	80

№ 5698

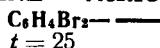
p-DIBROMOBENZENE — [1401]
TOLUENE
 $C_6H_4Br_2-C_7H_8$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
10.5	89.5	0
19.7	80.3	20
34.3	65.7	40
55.1	44.9	60
84.0	16.0	80

№ 5699 N - 2 - PROPENYL - N' - PHENYLTHIOUREA - DIBROMOBENZENE
 $C_{10}H_{12}N_2S - C_6H_4Br_2$ [205]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t'</i>
A	B		A	B	
0.0	100.0	87.0	47.30	52.70	81.0
11.0	89.0	83.7	60.47	37.53	85.0
20.45	79.55	81.5	70.33	29.67	88.2
30.20	69.80	79.2	82.12	17.88	92.3
41.68	58.32	79.0	90.91	9.09	95.8

№ 5700 p - DIBROMOBENZENE - VARIOUS SOLVENTS [908]



Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₃ O	9.38
Benzene	C ₆ H ₆	45.59
Carbon Disulfide	CS ₂	47.37
Carbon Tetrachloride	CCl ₄	26.79
Ethyl Ether	C ₄ H ₁₀ O	41.62
Hexane	C ₆ H ₁₄	20.57

№ 5701 BENZOQUINONE - HEAVY WATER [1117]
 $C_6H_4O_2 - D_2O$

Solubility A, g/l	<i>t</i>
15.1	20

№ 5702 m - CHLORONITROBENZENE - [1129]



Mutual Solubility, Wt. %		<i>t</i>
A	B	
21.60	78.40	-10
31.67	68.33	-2.5
49.29	50.71	10

№ 5703 o - CHLORONITROBENZENE - [1129]



Mutual Solubility Wt. %		<i>t</i>
A	B	
43.19	56.81	-10
51.30	48.70	-2.5
69.15	30.85	10

№ 5704

[1129]

**p-CHLORONITROBENZENE —
ANILINE**
 $C_6H_4NO_2Cl - C_6H_7N$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
27.75	72.25	—10
31.67	68.33	—2.5
38.50	61.50	10

№ 5705

[600]

p-CHLORONITROBENZENE — VARIOUS SOLVENTS
 $C_6H_4NO_2Cl - \text{---}$

Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Water	H ₂ O	0.0028	17
"	"	0.0125	50
"	"	0.0153	100
Ethyl Acetate	C ₄ H ₈ O ₂	43.08	17
"	"	70.98	50
Acetone	C ₃ H ₆ O	56.05	17
"	"	75.95	50
Ethanol 96%	C ₂ H ₆ O	6.533	17
"	"	23.19	50
Ethanol	"	9.486	17
"	"	25.18	50
Methanol	CH ₄ O	8.021	17
"	"	21.98	50
Benzene	C ₆ H ₆	45.53	17
"	"	71.21	50
Chloroform	CHCl ₃	42.40	17
"	"	62.38	50
Pyridine	C ₅ H ₅ N	49.4	17
"	"	75.75	50
Carbon Tetrachloride	CCl ₄	14.84	17
"	"	49.78	50
Toluene	C ₇ H ₈	43.69	17
"	"	69.19	50
Carbon Disulfide	CS ₂	22.18	17
"	"	41.12	33.5
Ethyl Ether	C ₄ H ₁₀ O	34.31	15
"	"	42.26	32

№ 5706

[1751]

**m - DINITROBENZENE -
BROMOBENZENE**
 $C_6H_4N_2O_4 - C_6H_5Br$

Mutual Solubility Wt. %		<i>t</i>
A	B	
18.5	81.5	20
23.7	76.3	25
28.7	71.3	30
38.0	62.0	40
47.5	52.5	50
57.0	43.0	60

№ 5707

[1751]

**m - DINITROBENZENE -
BENZENE**
 $C_6H_4N_2O_4 - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
17.5	82.5	15
26.0	74.0	20
33.0	67.0	25
40.0	60.0	30
52.0	48.0	40
62.5	37.5	50
71.0	29.0	60

№ 5708

[175]

m - DINITROBENZENE - ORGANIC ACIDS
 $C_6H_4N_2O_4 - C_nH_{2n}O_2$

Acid		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Formic Acid	CH_2O_2	9.0	13.5
" "	"	9.6	15.5
Acetic Acid	$C_2H_4O_2$	15.2	13.5
" "	"	15.7	15.5
" "	"	17.8	23.0
Propanoic Acid	$C_3H_6O_2$	12.0	13.5
" "	"	12.9	15.5
" "	"	13.45	23.0
Butanoic Acid	$C_4H_8O_2$	7.3	13.5
" "	"	8.2	15.5

№ 5709

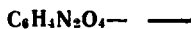
[175]

m - DINITROBENZENE - VARIOUS ALCOHOLS
 $C_6H_4N_2O_4 - C_nH_{2n} + 2O$

B		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH_4O	5.38	13.8
Ethanol	C_2H_6O	2.83	13.8
1 - Propanol	C_3H_8O	2.0	13.8
"	"	43.6	73.0



Solvent		Solubility A, Wt.%			<i>t</i>
Name	Formula	<i>o</i> -Isomer	<i>m</i> -Isomer	<i>p</i> -Isomer	
Methanol	CH ₃ O	3.194	6.323	0.685	20.5
Ethanol	C ₂ H ₅ O	1.864	3.381	0.398	20.5
1-Propanol	C ₃ H ₇ O	1.078	2.344	0.297	20.5
Carbon Disulfide	CS ₂	0.235	1.332	0.148	17.6
Chloroform	CHCl ₃	21.32	24.47	1.787	17.6
Benzene	C ₆ H ₆	5.357	28.29	2.496	18.2
Ethyl Acetate	C ₄ H ₈ O ₂	11.47	26.62	3.437	18.2
Toluene	C ₇ H ₈	3.493	23.46	2.305	16.2
Carbon Tetrachloride	CCl ₄	0.143	1.166	0.12	16.2
Water	H ₂ O	0.014	0.0525	0.008	20.0

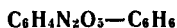


Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Water	H ₂ O	0.0069	15
"	"	0.0469	50
"	"	0.1910	100
Ethyl Acetate	C ₄ H ₈ O ₂	23.72	15
"	"	59.75	50
Acetone	C ₃ H ₆ O	41.99	15
"	"	68.05	50
Methanol	CH ₃ O	5.006	15
"	"	9.975	50
Ethanol 96%	C ₂ H ₅ O	2.315	15
"	"	10.31	50
Ethanol	"	2.486	15
"	"	5.571	24.6
"	"	11.26	50
Benzene	C ₆ H ₆	25.42	15
"	"	66.20	50
Chloroform	CHCl ₃	23.38	15
"	"	41.00	50
Ethyl Ether	C ₄ H ₁₀ O	6.314	15
"	"	9.958	30
Pyridine	C ₅ H ₅ N	39.22	15
"	"	68.38	50
Carbon Disulfide	CS ₂	1.215	15
"	"	1.361	33
Carbon Tetrachloride	CCl ₄	9.607	15
"	"	8.232	50
Toluene	C ₇ H ₈	20.42	15
"	"	57.41	50

№ 5712

[1803, 1819]

**2, 3 - DINITROPHENOL -
BENZENE**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
12.77	87.23	78.7
25.30	74.70	93.8
38.66	61.34	102.5
69.05	30.95	118.6
91.57	8.43	134.9

№ 5713

2, 4 - DINITROPHENOL - BENZENE

[1803, 1819]

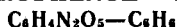


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
21.01	78.99	51.0	69.52	30.48	87.2
34.60	65.40	65.0	79.00	21.00	93.9
52.36	47.64	77.1	86.59	13.41	99.5
62.77	37.23	83.7	93.61	6.39	105.6

№ 5714

2, 5 - DINITROPHENOL - BENZENE

[1803, 1819]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
13.96	86.04	33.5	54.78	45.22	71.4
24.22	75.78	48.5	72.97	27.03	82.4
33.81	66.19	57.0	82.44	17.56	88.6
48.91	51.09	67.9	92.90	7.10	98.5

№ 5715

[1803, 1819]

**2, 6 - DINITROPHENOL -
BENZENE**



Mutual Solubility Wt. %		<i>t</i>
A	B	
43.36	56.64	25.5
60.17	39.83	34.0
78.52	21.48	44.5
86.87	13.13	50.0
92.85	7.15	55.0

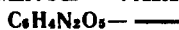


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.54	93.46	89.2	60.49	39.51	113.0
27.27	72.73	106.5	73.10	26.90	116.1
41.65	58.35	109.1	86.64	13.36	122.6
56.86	43.14	112.1			



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.39	93.61	60.9	73.08	26.92	103.4
20.13	79.87	85.0	83.73	16.27	102.8
32.63	67.37	94.4	94.20	5.80	116.0
51.13	48.87	97.7			

2, 4 - DINITROPHENOL - VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.0202	12.5
"	"	0.0802	50
"	"	0.6246	85
"	"	1.3308	100
Ethyl Acetate	C ₄ H ₈ O ₂	13.46	15
"	"	28.31	50
Acetone	C ₃ H ₆ O	26.42	15
"	"	49.58	50
Methanol	CH ₄ O	4.735	15
"	"	14.47	50
Ethanol 96%	C ₂ H ₆ O	2.96	15
"	"	10.17	50
Ethanol	"	3.633	15
"	"	11.73	50
Benzene	C ₆ H ₆	6.006	15
"	"	20.43	50
Chloroform	CHCl ₃	5.114	15
"	"	16.55	50
Ethyl Ether	C ₄ H ₁₀ O	2.959	15
"	"	6.708	50
Pyridine	C ₅ H ₅ N	16.72	15
"	"	41.27	50

Continuation of Table. 5718

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Carbon Disulfide	CS ₂	0.408	15
"	"	1.01	50
Carbon Tetrachloride	CCl ₄	0.418	15
"	"	1.749	50
Toluene	C ₇ H ₈	5.98	15
"	"	16.65	50

№ 5719

[602, 605]

2, 6 - DINITROPHENOL - VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.0315	15
"	"	0.5095	50
"	"	1.205	100
Ethyl Acetate	C ₄ H ₈ O ₂	40.76	14
Acetone	C ₃ H ₆ O	61.86	14
Methanol	CH ₄ O	12.85	14
Ethanol 96%	C ₂ H ₆ O	6.103	14
Ethanol	"	5.213	14
Benzene	C ₆ H ₆	25.18	14
Chloroform	CHCl ₃	24.16	14
Ethyl Ether	C ₄ H ₁₀ O	8.054	14
Pyridine	C ₅ H ₅ N	40.49	14
Carbon Disulfide	CS ₂	0.665	14
Carbon Tetrachloride	CCl ₄	0.685	14
Toluene	C ₇ H ₈	18.9	14

№ 5720

[1931]

**PICRAMIDE - ETHYLENE
GLYCOL DIACETATE**

Solubility A, Wt. %	<i>t</i>
2.34	25

№ 5721 PERFLUOROMETHYLCYCLOHEXANE - CHLOROBENZENE [907]

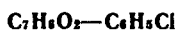


Mutual Solubility, Mol. %			Mutual Solubility, Mol. %		
A	B	<i>t</i>	A	B	<i>t</i>
5.0	95.0	86.9	43.1	56.9	123.5
9.5	90.5	110.4	63.5	36.5	108.1
25.8	74.2	126.8	72.3	27.7	92.9
34.3	65.7	126.7	83.9	16.1	65.7

№ 5722

[478]

**BENZOIC ACID –
CHLORO BENZENE**

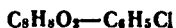


Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.42	96.58	0
5.83	94.17	14.2
11.12	88.88	31.8

№ 5723

[478]

**3-METHYLBENZOIC ACID –
CHLORO BENZENE**



Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.97	96.03	0
7.08	92.92	14.1
14.07	85.93	31.8

№ 5724

[478]

**2-METHYLBENZOIC ACID –
CHLORO BENZENE**

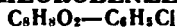


Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.12	96.88	0
6.19	93.81	14.1
12.73	87.27	31.8

№ 5725

[478]

**4-METHYLBENZOIC ACID –
CHLORO BENZENE**

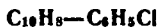


Solubility A, Mol.%	<i>t</i>
1.76	31.8

№ 5726

NAPHTHALENE – CHLORO BENZENE

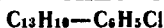
[2024]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
19.27	80.73	4.2	50.56	49.44	42.8
23.00	77.00	8.8	57.24	42.76	49.0
31.99	68.01	22.1	74.12	25.88	62.6
37.87	62.13	29.4			

№ 5727

[1401]

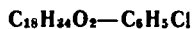
FLUORENE — CHLOROBENZENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
6.6	93.4	0
12.4	87.6	20
21.4	78.6	40
34.9	65.1	60
53.3	46.7	80
78.2	21.8	100

№ 5728

9 - OCTADECENOIC ACID — CHLOROBENZENE

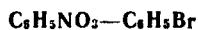
[932]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
2.4	97.6	—40	68.7	31.3	0
5.8	94.2	—30	90.0	10.0	10
21.3	78.7	—20	Completely miscible		20
45.9	54.1	—10			

№ 5729

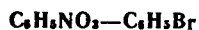
[1816]

**o - NITROPHENOL —
BROMOBENZENE**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
48.8	51.2	20
57.7	42.3	25
67.2	32.8	30
78.3	21.7	35
89.7	10.3	40

№ 5730

[1816]

**p - NITROPHENOL —
BROMOBENZENE**

Mutual Solubility Wt. %		<i>t</i>
A	B	
32.7	67.3	80
59.7	40.3	90
80.6	19.4	100
96.3	3.7	110

№ 5731

m-CHLOROPHENOL – BENZENE

[1820]

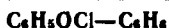


Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
4.31	95.69	4.0	44.9	55.1	-8.4
7.0	93.0	3.2	47.78	52.22	-1.5
15.32	84.68	0.5	50.68	49.32	0.0
21.40	78.60	-1.4	57.02	42.98	3.4
31.77	68.23	-4.5	64.65	35.35	7.4
38.39	61.61	-6.5	75.10	24.90	14.2
40.92	59.08	-7.2	83.68	16.32	20.0
40.0	60.00	-7.0	89.89	10.11	24.6
41.66	58.34	-5.3	96.50	3.50	29.8
43.62	56.38	-4.0			

№ 5732

o-CHLOROPHENOL – BENZENE

[1820]

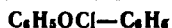


Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	5.3	62.5	37.5	-18.5
3.04	96.96	4.6	63.83	36.17	-17.4
8.33	91.67	2.7	64.90	35.10	-16.4
15.49	84.51	0.0	69.05	30.95	-13.7
24.56	75.44	-3.2	80.32	19.68	-7.0
29.01	70.99	-5.0	84.72	15.28	-3.8
45.22	54.78	-11.6	90.26	9.74	0.2
55.54	44.46	-16.5	95.20	4.80	3.6
60.68	39.32	-18.8	97.65	2.35	5.6
61.58	38.42	-19.5			

№ 5733

p-CHLOROPHENOL – BENZENE

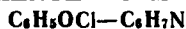
[1820]



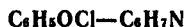
Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
2.98	97.02	4.5	50.10	49.90	6.0
10.25	89.75	2.4	55.24	44.76	9.1
15.10	84.90	1.0	60.53	39.47	12.9
17.62	82.38	0.2	68.58	31.42	18.0
29.14	70.86	-3.2	73.13	26.87	20.8
35.50	64.50	-5.0	80.06	19.94	25.8
37.50	62.50	-5.5	86.65	13.35	30.5
38.07	61.93	-5.4	90.63	9.37	33.6
39.67	60.33	-3.2	95.52	4.48	37.5
45.65	54.35	2.8			



Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
α - B	A		α - B	A	
0.0	100.0	8.0	59.0	41.0	-17.9
6.0	94.0	4.7	61.5	38.5	-21.2
10.0	90.0	2.5	63.1	36.9	-23.8
14.1	85.9	-2.8	65.9	34.1	-28.0
16.2	83.8	-6.4	68.1	31.9	-31.7
20.0	80.0	-12.0	70.8	29.2	-37.1
22.2	77.8	-18.4	73.7	26.3	-41.2
24.4	75.6	-23.9	77.0	23.0	-48.1
26.7	73.3	-31.7	78.9	21.1	-51.8
36.7	63.3	-30.0	82.5	17.5	-60.0
40.1	59.9	-23.9	85.3	14.7	-66.4
42.2	57.8	-19.2	89.1	10.9	-75.6
44.2	55.8	-15.9	91.4	8.6	-81.5
46.0	54.0	-13.6	92.2	7.8	-78.8
47.8	52.2	-11.8	93.4	6.6	-76.0
48.9	51.1	-11.1	94.9	5.1	-73.6
50.0	50.0	-11.0	96.3	3.7	-69.4
52.0	48.0	-11.4	98.0	2.0	-66.4
54.5	45.5	-13.6	100.0	0.0	-64.2
57.1	42.9	-16.0			



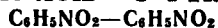
Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
β - B	A		β - B	A	
0.0	100.0	8.0	47.7	52.3	-13.7
3.8	96.2	6.8	49.0	51.0	-18.8
6.8	93.2	4.5	50.0	50.0	-18.0
9.9	90.1	1.5	51.0	49.0	-18.2
11.8	88.2	-0.5	53.4	46.6	-18.8
14.5	85.5	-4.0	56.7	43.3	-21.2
17.1	82.9	-7.5	59.2	40.8	-24.6
20.0	80.0	-12.0	61.3	38.7	-27.8
21.2	78.8	-7.0	63.5	36.5	-31.5
22.6	77.4	-3.5	66.0	34.0	-36.0
24.1	75.9	-0.7	68.0	32.0	-39.9
26.0	74.0	2.5	68.5	31.5	-41.4
28.1	71.9	5.4	69.7	30.3	-40.5
30.9	69.1	7.6	74.3	25.7	-35.4
32.8	67.2	7.9	80.0	20.0	-31.1
36.1	63.9	6.5	84.5	15.5	-28.1
38.9	61.1	4.0	90.0	10.0	-24.9
40.9	59.1	1.5	93.7	6.7	-23.0
42.7	57.3	-2.0	97.5	2.5	-21.5
44.8	55.2	-5.5	100.0	0.0	-20.8
46.5	53.5	-10.0			



Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
B	A		B	A	
0.0	100.0	8.0	54.5	45.5	23.6
4.6	95.4	6.0	57.0	43.0	22.0
10.0	90.0	2.2	59.9	40.1	19.0
14.4	85.6	-1.2	63.0	37.0	14.4
15.9	84.1	-4.0	65.8	34.2	10.1
17.7	82.3	-6.3	68.0	32.0	7.0
33.4	66.6	-3.5	70.8	29.2	2.1
34.9	65.1	1.4	73.2	26.8	-2.0
36.7	63.3	6.0	76.8	23.2	-8.1
38.5	61.5	10.5	78.7	21.3	-12.2
40.0	60.0	14.0	80.0	20.0	-14.8
41.9	58.1	18.1	82.5	17.5	-12.0
43.6	56.4	21.0	86.0	14.0	-7.9
45.6	54.4	23.4	90.0	10.0	-4.5
47.5	52.5	24.6	93.7	6.3	-2.0
50.0	50.0	25.5	97.4	2.6	0.0
52.0	48.0	24.6	100.0	0.0	1.0

NITROBENZENE -**HEAVY WATER**

Solubility A, Wt. %	t
0.1443	6
0.1682	30
0.2125	50

4-PYRIDINECARBOXYLIC ACID - 3-PYRIDINECARBOXYLIC ACID

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.0	100.0	233.0	61.7	38.3	290.0
9.0	91.0	231.0	70.5	29.5	297.0
20.0	80.0	224.6	81.2	18.8	297.0
31.1	68.9	258.4	90.0	10.0	300.0
41.7	58.3	271.0	100.0	0.0	314.0
50.5	49.5	280.2			

2-PYRIDINECARBOXYLIC ACID - 3-PYRIDINECARBOXYLIC ACID

№ 5739



[1380]

Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.0	100.0	233.0	54.2	45.8	186.8
7.5	92.5	230.2	67.3	32.7	167.8
20.0	80.0	219.2	81.6	18.4	138.2
28.4	71.6	217.4	95.5	4.5	136.0
39.3	60.7	201.2	100.0	0.0	137.0
48.6	51.4	188.0			

№ 5740

[1380]

4-PYRIDINECARBOXYLIC ACID - 2-PYRIDINECARBOXYLIC ACID
 $C_6H_5NO_2 - C_6H_5NO_2$

Mutual Solubility, Wt. %		m.p
A	B	
0.0	100.0	137.0
9.5	90.5	200.8
18.4	81.6	216.8
29.3	70.7	231.2
100.0	0.0	314.0

№ 5741

[1401]

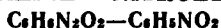
1,3-BENZENEDIOL - NITROBENZENE
 $C_6H_6O_2 - C_6H_5NO_2$

Mutual Solubility, Wt. %		t
A	B	
5.95	94.05	20
14.54	85.46	40
29.80	70.20	60
52.51	47.49	80
81.68	18.32	100

№ 5742

m-NITROANILINE - NITROBENZENE

[519]

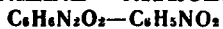


Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
11.3	88.7	25	35.6	64.4	70
13.0	87.0	30	46.0	54.0	80
16.7	83.3	40	59.2	40.8	90
21.3	78.7	50	76.0	24.0	100
27.0	73.0	60	96.0	4.0	110

№ 5743

p-NITROANILINE - NITROBENZENE

[519]

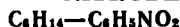


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
6.7	93.3	25	24.6	75.4	80
7.5	92.5	30	31.2	68.8	90
9.3	90.7	40	39.2	60.8	100
11.7	88.3	50	48.6	51.4	110
14.9	85.1	60	59.0	41.0	120
19.3	80.7	70	87.1	12.9	140

№ 5744

HEXANE – NITROBENZENE

[176]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
30.0	70.0	5.97	45.99	54.01	10.38
34.94	65.06	8.70	54.86	45.14	10.14
39.92	60.08	9.90	65.05	34.95	8.54
42.40	57.60	10.28	69.82	30.18	6.50

№ 5745

[1401]

**BENZOIC ACID –
NITROBENZENE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
4.4	95.6	0
9.2	90.8	20
16.3	83.7	40
27.6	72.4	60
43.4	56.6	80
66.0	34.0	100

№ 5746

BENZOIC ACID – 3-PYRIDINECARBOXYLIC ACID

[1379]

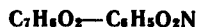


Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.0	100.0	233.0	66.6	33.4	169.8
9.0	91.0	227.6	79.8	20.2	142.2
20.0	80.0	217.6	89.0	11.0	117.8
28.6	71.4	211.2	96.8	3.2	120.4
45.4	54.6	195.8	100.0	0.0	122.0
59.5	40.5	184.0			

№ 5747

BENZOIC ACID – 4-PYRIDINECARBOXYLIC ACID

[1379]



Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.0	100.0	314.0	68.4	31.6	255.4
8.1	91.9	304.0	81.8	18.2	225.2
36.8	63.2	282.8	89.4	10.6	199.4
53.9	46.1	265.4	96.1	3.9	158.8
61.8	38.2	264.2	100.0	0.0	122.0



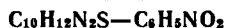
Mutual Solubility, Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.0	100.0	137.0	58.8	41.2	102.4
11.6	88.4	134.2	67.2	32.8	107.4
18.6	81.4	131.0	75.5	24.5	111.4
30.3	69.7	123.8	86.6	13.4	116.2
38.3	61.7	116.0	100.0	0.0	122.0
46.5	53.5	107.4			

№ 5749

[2024]

NAPHTHALENE – NITROBENZENE

Mutual Solubility Wt. %		<i>t</i>
A	B	
16.67	83.33	2.9
22.65	77.35	13.8
29.80	70.20	24.0
49.81	50.19	45.3
68.66	31.34	60.2
75.81	24.19	65.3
85.69	14.31	71.8

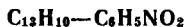
№ 5750 **N-2-PROPENYL-N'-PHENYLTHIOUREA – NITROBENZENE**

[205]

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.98	95.02	30.0	52.86	47.14	80.0
9.92	90.08	42.5	61.01	38.99	83.9
19.26	80.74	56.2	76.25	23.75	90.5
29.85	70.15	65.3	88.10	11.90	94.3
39.60	60.40	72.5			

№ 5751

[1401]

FLUORENE – NITROBENZENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
6.3	93.7	0
11.8	88.2	20
20.6	79.4	40
34.1	65.9	60
52.5	47.5	80
77.1	22.9	100

№ 5752

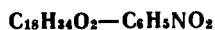
[1150]

**CIS-9, 11, 13-OCTADECATRIENOIC
ACID – NITROBENZENE**

Solubility A, Wt. %	<i>t</i>
3.75	0

№ 5753

[932]

**9-OCTADECENOIC ACID –
NITROBENZENE**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
68.7	31.3	0
91.7	8.3	10
Completely miscible		20

№ 5754

CELLULOSE ACETATE* – NITROBENZENE

[142]

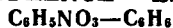


Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.45	10	0.50	40
0.34	22.5	0.47	60
0.35	30	3.30	70

№ 5755

m-NITROPHENOL – BENZENE

[464]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.62	99.38	6.0	31.48	68.52	66.0
1.79	98.21	22.0	54.63	45.37	74.0
4.75	95.25	38.0	79.05	20.95	81.5
9.18	90.82	48.0	84.98	15.02	85.0
17.37	82.63	57.5	89.55	10.45	87.8

* Characteristics of A: 54.61% of AcOH, specific viscosity 0.62 (0.25% solution)
0.18% ash content

№ 5756

o-NITROPHENOL – BENZENE

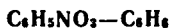
[464]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
31.45	68.55	0.0	72.79	27.21	26.9
40.51	59.49	6.0	78.51	21.49	30.1
50.94	49.06	14.1	84.88	15.12	34.6
59.72	40.28	20.1	89.73	10.27	40.1

№ 5757

[1802]

**p-NITROPHENOL –
BENZENE**

Solubility A, g/l.	<i>t</i>
7.1	5

№ 5758

p-NITROPHENOL – BENZENE

[464]

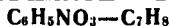


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.64	99.36	8.0	20.11	79.89	78.5
0.95	99.05	20.1	38.09	61.91	85.4
1.63	98.37	32.1	56.05	43.95	91.0
2.75	97.25	41.3	80.00	20.00	96.5
8.08	91.92	65.5	91.54	8.46	104.2
13.78	86.22	73.5			

№ 5759

m-NITROPHENOL – TOLUENE

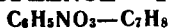
[1816]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.63	95.37	39.6	33.16	66.84	71.5
6.00	94.00	45.8	46.93	53.07	74.5
7.03	92.97	48.9	57.71	42.29	75.7
9.11	90.89	54.0	70.50	29.50	78.5
11.28	88.72	58.0	79.57	20.43	82.3
16.44	83.56	64.8	91.43	8.57	88.8
20.26	79.74	67.7	100.00	0.00	95.1

№ 5760

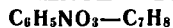
[1816]

o-NITROPHENOL — TOLUENE

Mutual Solubility Wt. %		<i>t</i>
A	B	
46.9	53.1	15
55.2	44.8	20
64.6	35.4	25
74.6	25.4	30
84.5	15.5	35
93.1	6.9	40

№ 5761

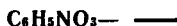
[1816]

p-NITROPHENOL — TOLUENE

Mutual Solubility Wt. %		<i>t</i>
A	B	
18.5	81.5	70
28.1	71.9	80
54.4	45.6	90
79.6	20.4	100
96.3	3.7	110

№ 5762

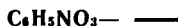
[602]

o-NITROPHENOL — VARIOUS SOLVENTS*t* = 15.5

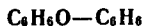
Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Acetate	$C_4H_8O_2$	56.7
Acetone	C_3H_6O	40.88
Methanol	CH_4O	10.58
Ethanol 96%	C_2H_6O	20.20
Ethanol	-	19.71
Benzene	C_6H_6	51.78
Chloroform	$CHCl_3$	49.92
Ethyl Ether	$C_4H_{10}O$	48.73
Pyridine	C_5H_5N	59.09
Carbon Disulfide	CS_2	32.24
Carbon Tetrachloride	CCl_4	28.78
Toluene	C_7H_8	31.17

№ 5763

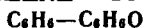
[602]

p-NITROPHENOL — VARIOUS SOLVENTS

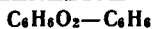
Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethyl Acetate	$C_4H_8O_2$	55.80	14
Acetone	C_3H_6O	67.22	14
Methanol	CH_4O	70.62	14
Ethanol 96%	C_2H_6O	61.67	14
Ethanol	C_2H_6O	60.14	14
Benzene	C_6H_6	1.264	14
Chloroform	$CHCl_3$	2.903	14
Ethyl Ether	$C_4H_{10}O$	56.59	34
Pyridine	C_5H_5N	41.59	14
Carbon Disulfide	CS_2	0.05	34.5
Carbon Tetrachloride	CCl_4	0.05	14
Toluene	C_7H_8	1.117	14

PHENOL - BENZENE

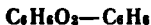
Solubility A, Wt.-%	<i>t</i>
2.5	16
8.33	21
10.0	25
100.0	43

BENZENE - PHENOL

Mutual Solubility, Wt.-%		m.p	Mutual Solubility, Wt.-%		m.p
A	B		A	B	
0.0	100.0	39.4	58.4	41.6	-5.4
11.8	88.2	30	67.5	32.5	-2.5
25.0	75.0	20	78.3	21.7	0
38.2	61.8	10	89.0	11.0	2.5
51.5	48.5	0	100.0	0.0	5.1

1, 4 - BENZENEDIOL - BENZENE

Mutual Solubility, Mol.-%		<i>t</i>	Mutual Solubility, Mol.-%		<i>t</i>
A	B		A	B	
0.02	99.98	20	1.18	98.82	100
0.04	99.96	30	1.41	98.59	110
0.20	99.80	40	2.00	98.00	120
0.50	99.50	50	3.08	96.92	130
0.62	99.38	60	4.96	95.04	140
0.80	99.20	70	8.10	91.90	150
0.90	99.10	80	72.30	27.70	160
1.00	99.00	90	100.00	0.00	172

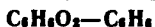
1, 2 - BENZENEDIOL - BENZENE

Mutual Solubility, Mol.-%		<i>t</i>	Mutual Solubility, Mol.-%		<i>t</i>
A	B		A	B	
0.60	99.40	20	10.60	89.40	70
1.15	98.85	30	29.55	70.45	80
1.80	98.20	40	64.30	35.70	90
3.02	96.98	50	90.32	9.68	100
5.35	94.65	60	100.0	0.00	104.5

№ 5768

1, 3 - BENZENEDIOL — BENZENE

[1670]

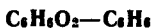


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.8	95.2	60	60.7	39.3	105
6.6	93.4	70	65.7	34.3	100
9.2	90.8	80	71.3	28.7	90
13.0	87.0	90	75.0	25.0	80
19.5	80.5	100	77.5	22.5	70
24.6	75.4	105	79.4	20.6	60
42.4	57.6	109.3			

№ 5769

1, 3 - BENZENEDIOL — BENZENE

[2013]

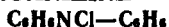


Solubility A, Mol. %		<i>t</i>	Solubility A, Mol. %		<i>t</i>
A	B		A	B	
0.15	99.85	20	1.76	98.24	70
0.40	99.60	30	3.17	96.83	80
0.60	99.40	40	6.40	93.60	90
0.75	99.25	50	79.80	20.20	100
1.00	99.00	60	100.00	0.00	109.4

№ 5770

m - CHLOROANILINE — BENZENE

[1815]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
93.48	6.52	-10.4	43.28	56.72	-14.0
86.18	13.82	-21.0	35.48	64.52	-10.5
80.82	19.18	-25.0	22.68	77.32	-5.0
75.50	24.50	-29.0	12.97	87.03	-0.4
64.33	35.67	-24.4	7.20	92.80	2.0
47.02	52.98	-16.2	0.0	100.0	5.5

№ 5771

o - CHLOROANILINE — BENZENE

[1815]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
96.09	3.91	-5.0	50.86	49.14	-17.4
91.19	8.81	-8.7	39.50	60.50	-12.0
83.13	16.87	-14.4	26.46	73.54	-6.2
72.63	27.37	-23.0	14.95	85.05	-0.8
68.5	31.50	-25.0	8.72	91.28	1.5
57.26	42.74	-21.0	0.0	100.0	5.5

№ 5772

p-CHLOROANILINE – BENZENE

[1815]



Mutual Solubility, Wt.%		m.p	Mutual Solubility, Wt.%		m.p
A	B		A	B	
98.90	1.10	70.0	15.43	84.57	8.5
85.24	14.76	60.0	9.42	90.58	2.4
65.36	34.64	47.8	8.50	91.50	1.5
45.47	54.53	34.8	4.66	95.34	3.4
33.93	66.07	25.7	2.87	97.13	4.2
21.29	78.71	14.0	0.727	99.273	5.1

№ 5773

m-NITROANILINE – BENZENE

[1815]



Mutual Solubility Wt.%		t	Mutual Solubility, Wt.%		t
A	B		A	B	
96.37	3.63	110.3	32.42	67.58	78.4
90.55	9.45	105.4	14.18	85.82	60.9
79.96	20.04	99.2	4.42	95.58	38.2
57.95	42.05	88.7			

№ 5774

m-NITROANILINE – BENZENE

[519]



Mutual Solubility, Mol.%		t	Mutual Solubility, Mol.%		t
A	B		A	B	
1.5	98.5	25	13.3	86.7	70
1.8	98.2	30	25.2	74.8	80
2.8	97.2	40	48.7	51.3	90
4.1	95.9	50	72.7	27.3	100
7.2	92.8	60	95.6	4.4	110

№ 5775

o-NITROANILINE – BENZENE

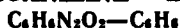
[1815]



Mutual Solubility, Wt.%		t	Mutual Solubility, Wt.%		t
A	B		A	B	
95.35	4.65	67.2	40.92	59.08	39.2
88.69	11.31	62.0	21.52	78.48	23.2
78.64	21.36	55.0	12.26	87.74	10.5
58.96	41.04	47.4			

№ 5776

[519]

o-NITROANILINE – BENZENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
10.5	89.5	25
13.6	86.4	30
27.6	72.4	40
51.6	48.4	50
75.8	24.2	60

№ 5777

p-NITROANILINE – BENZENE

[1815]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
96.78	3.22	143.7	25.46	74.54	108.6
81.71	18.29	132.3	11.42	88.58	95.0
64.03	35.97	122.5	3.21	96.79	70.0
54.15	45.85	119.5			

№ 5778

p-NITROANILINE – BENZENE

[519]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.3	99.7	25	2.6	97.4	80
0.4	99.6	30	4.3	95.7	90
0.6	99.4	40	8.4	91.6	100
0.8	99.2	50	16.8	83.2	110
1.2	98.8	60	40.9	59.1	120
1.7	98.3	70	84.8	15.2	140

№ 5779

m-AMINOPHENOL – BENZENE

[1805]

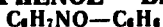


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
4.87	95.13	95.5	50.9	49.1	121.9
10.4	89.6	105.9	59.0	41.0	119.3
20.3	79.7	114.3	68.9	31.1	111.2
31.3	68.7	121.2	72.5	27.5	110.8
37.7	62.3	122.1	76.4	23.6	111.4
40.0	60.0	122.3	82.6	17.4	112.6
46.1	53.9	122.1	91.8	8.2	116.4

№ 5780

O - AMINOPHENOL - BENZENE

[1805]

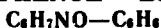


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
3.87	96.13	114.9	49.3	50.7	155.7
9.02	90.98	132.2	59.7	40.3	158.4
16.1	83.9	141.8	69.8	30.2	161.5
23.2	76.8	146.8	80.4	19.6	165.2
29.3	70.7	149.7	87.6	12.4	168.2
34.1	65.9	151.5	100.0	0.0	177.0
41.3	58.7	153.6			

№ 5781

P - AMINOPHENOL - BENZENE

[1805]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
3.16	96.84	103	40.1	59.9	143
7.56	92.44	124	51.0	49.0	145
11.6	88.4	130	60.9	39.1	149
20.4	79.6	135	69.2	30.8	154
30.4	69.6	138.5	100.0	0.0	186

№ 5782

PHENYLENEDIAMINE - BENZENE

[51]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
15.0	85.0	54.4	50.0	50.0	70.1
20.0	80.0	61.1	60.0	40.0	69.0
30.0	70.0	68.6	70.0	30.0	62.5
40.0	60.0	69.8	78.0	22.0	49.0

№ 5783

m - PHENYLENEDIAMINE - BENZENE

[1813]



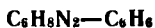
α -form *			β -form **		
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.02	98.98	19.0	72.14	27.86	58.8
2.84	97.16	34.1	74.56	25.44	55.5
7.43	92.57	46.8	74.84	25.16	54.7
9.75	90.25	50.7	75.00	25.00	53.8
19.36	80.64	59.8	75.33	24.67	53.9
39.04	60.96	69.0	76.84	23.16	54.1
50.91	49.09	68.8	78.57	21.43	54.2
61.60	38.40	66.5	79.31	20.69	54.7
65.91	34.09	64.2	85.85	14.15	56.3
71.04	28.96	60.0	88.64	11.36	57.2
			100.00	0.00	62.8

* α -form exists at $t > 36^\circ$ as brown needles** β -form exists at $t < 36^\circ$ as pinkish plates.

№ 5784

o-PHENYLENEDIAMINE – BENZENE

[1813]

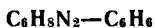


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.72	98.28	22.2	49.47	50.53	82.5
3.13	96.87	36.0	62.05	37.95	85.6
9.35	90.65	58.4	77.94	22.06	91.1
21.06	78.94	72.1	90.04	9.96	96.8
31.43	68.57	76.9	95.12	4.88	100.1
40.95	59.05	80.0	100.0	0.0	103.8

№ 5785

p-PHENYLENEDIAMINE – BENZENE

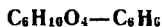
[1813]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.20	98.80	59.1	49.10	50.90	115.2
3.25	96.75	79.9	59.12	40.88	117.1
9.67	90.33	98.5	77.86	22.14	124.0
20.14	79.86	110.6	94.75	5.25	135.5
33.32	66.68	112.9	100.00	0.0	139.7
41.04	58.96	113.9			

№ 5786

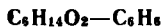
[1989]

**PROPYLMALONIC
ACID – BENZENE**

Solubility A, Wt. %	<i>t</i>
0.052	25

№ 5787

[1878]

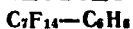
**1,6-HEXANEDIOL –
BENZENE**

Solubility A, Mol. %	<i>t</i>
0.700	43.8
0.981	51.9
1.297	58.5
1.472	61.4

№ 5788

PERFLUOROMETHYLCYCLOHEXANE – BENZENE

[907]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.4	95.6	61.1	31.3	68.7	84.9
8.4	91.6	76.1	40.7	59.3	82.7
12.4	87.6	81.6	47.7	52.3	79.2
15.5	84.5	83.9	53.3	46.7	75.7
18.6	81.4	84.7	60.3	39.7	69.3
21.5	78.5	85.1	69.5	30.5	58.9
23.3	76.7	85.3	81.0	19.0	35.0

№ 5789

PERFLUOROHEPTANE – BENZENE

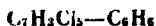
[909]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
4.2	95.8	92.2	28.3	71.7	113.1
9.0	91.0	107.6	35.0	65.0	109.9
14.1	85.9	112.5	48.2	51.8	102.1
17.3	82.7	113.3	62.6	37.4	85.8
19.8	80.2	113.4	78.0	22.0	56.6

№ 5790

[1856]

**PENTACHLOROTOLUENE –
BENZENE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
0.83	99.17	8.77
1.12	98.88	19.92
1.53	98.47	29.93
2.24	97.76	41.88

№ 5791

[1913]

**1, 3, 5 - DINITROBENZOIC
ACID – BENZENE**

Solubility A, Wt. %	<i>t</i>
0.103	25

№ 5792

m-CHLOROBENZOIC ACID – BENZENE

[1809]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
2.25	97.75	35.8	49.00	51.00	108.0
4.96	95.04	51.2	71.15	28.85	125.3
9.67	90.33	65.5	94.20	5.80	142.5
30.10	69.90	93.7	100.0	0.00	154.5

№ 5793

o-CHLOROBENZOIC ACID – BENZENE

[1809]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
1.98	98.02	26.0	50.08	49.92	99.6
5.15	94.85	44.8	70.4	29.6	113.9
9.91	90.09	57.7	90.9	9.1	129.5
29.81	70.19	82.7	100.0	0.0	140.3

№ 5794

p-CHLOROBENZOIC ACID – BENZENE

[1809]

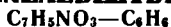


Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
1.98	98.02	93.6	52.5	47.5	194.0
5.3	94.7	119.4	72.9	27.1	212.7
10.3	89.7	137.4	92.2	7.8	232.5
30.5	69.5	172.5	100.0	0.0	241.5

№ 5795

m-NITROBENZALDEHYDE - BENZENE

[1807]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
1.20	98.80	5.0	33.77	66.23	18.5
2.40	97.60	4.7	38.91	61.09	21.7
4.28	95.72	4.3	47.68	52.32	25.6
4.98	95.02	4.0	54.53	45.47	29.4
10.14	89.86	2.4	62.30	37.70	33.0
15.15	84.85	1.0	68.87	31.13	36.3
15.75	84.25	-0.8	74.35	25.65	39.2
16.16	83.84	0.9	78.36	21.64	41.2
17.55	82.45	2.8	83.23	16.77	43.9
19.03	80.97	4.9	88.80	11.20	47.7
23.55	76.45	9.8	94.49	5.51	51.7
28.43	71.57	14.7	100.00	0.0	58.0

№ 5796

o-NITROBENZALDEHYDE - BENZENE

[1807]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
1.17	98.83	5.1	40.24	59.76	8.2
2.47	97.53	4.7	45.48	54.52	11.3
3.51	96.49	4.4	48.84	51.16	13.0
4.98	95.02	3.9	54.40	45.60	15.8
10.12	89.88	2.7	60.74	39.26	19.4
15.18	84.82	1.2	70.98	29.02	24.6
20.09	79.91	-0.4	76.28	23.72	27.2
25.23	74.77	-1.5	81.60	18.40	30.2
26.50	73.50	-1.7	87.82	12.18	34.1
26.85	73.15	-1.2	95.08	4.92	39.1
29.59	70.41	1.2	100.0	0.0	43.5
35.35	64.65	4.9			

№ 5797

p-NITROBENZALDEHYDE - BENZENE

[1807]



Mutual Solubility, Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
0.00	100.00	5.3	20.53	79.47	48.3
1.00	99.00	5.0	29.61	70.39	57.5
2.00	98.00	4.6	35.31	64.69	62.2
2.75	97.25	4.4	40.42	59.58	65.7
3.57	96.43	4.1	49.82	50.18	71.3
3.60	96.40	4.1	61.12	38.88	77.2
4.06	95.94	7.5	67.56	32.44	81.0
5.01	94.99	12.6	73.54	26.46	84.9
7.57	92.43	23.4	78.85	21.15	87.8
10.15	89.85	30.8	85.54	14.46	93.0
15.00	85.00	40.5	92.83	7.17	98.6

№ 5798

m - NITROBENZOIC ACID – BENZENE

[1809]

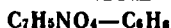


Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
1.95	98.05	121.0	30.54	69.46	65.2
4.95	95.05	105.0	55.5	44.5	48.0
9.87	90.13	89.5	79.6	20.4	33.0

№ 5799

m - NITROBENZOIC ACID – BENZENE

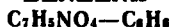
[520]



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
0.3	99.7	0	10.0	90.0	80
0.42	99.58	10	18.4	81.6	90
0.55	99.45	20	30.8	69.2	100
0.80	99.2	30	47.8	52.2	110
1.4	98.6	40	63.8	36.2	120
2.2	97.8	50	81.7	18.3	130
3.3	96.7	60	100.0	0.0	142.4
5.7	94.3	70			

№ 5800

[1913]

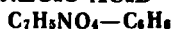
**o - NITROBENZOIC ACID –
BENZENE**

Solubility A, Wt.%	<i>t</i>
0.33	25

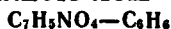
№ 5801

o - NITROBENZOIC ACID – BENZENE

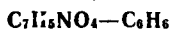
[1809]



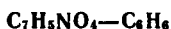
Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
2.1	97.9	63.0	28.32	71.68	105.8
5.03	94.97	78.6	50.25	49.75	113.0
10.0	90.00	90.5	81.0	19.0	128.3



Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0.15	99.85	10	4.3	95.7	90
0.24	99.76	20	9.4	90.6	100
0.35	99.65	30	24.3	75.7	110
0.55	99.45	40	46.7	53.3	120
0.70	99.3	50	68.5	31.5	130
0.80	99.2	60	87.5	12.5	140
1.2	98.8	70	100.0	0.0	147.7
2.2	97.8	80			

**p-NITROBENZOIC ACID –
BENZENE**

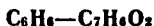
Mutual Solubility, Wt.%		t
A	B	
9.45	90.55	164.5
21.1	78.9	183.4
33.42	66.58	196.5
54.8	45.2	201.6
82.1	17.9	222.0

p-NITROBENZOIC ACID – BENZENE

Mutual Solubility, Mol.%		m.p	Mutual Solubility, Mol.%		m.p
A	B		A	B	
0.01	99.99	20	1.3	98.7	130
0.08	99.92	30	1.6	98.4	140
0.17	99.83	40	2.2	97.8	150
0.24	99.76	50	3.5	96.5	160
0.33	99.67	60	6.2	93.8	170
0.41	99.59	70	10.7	89.3	180
0.50	99.50	80	17.5	82.5	190
0.60	99.40	90	26.3	73.7	200
0.70	99.30	100	46.4	53.6	210
0.85	99.15	110	100.0	0.0	239.9
1.1	98.9	120			



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
11.50	88.50	0	64.28	35.72	40
19.35	80.65	5	69.23	30.77	45
26.47	73.53	10	73.96	26.04	50
33.33	66.67	15	78.31	21.69	55
40.12	59.88	20	82.70	17.30	60
46.81	53.19	25	86.93	13.07	65
53.05	46.95	30	91.10	8.90	70
59.01	40.99	35	95.30	4.70	75



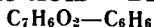
Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	121	94.3	5.7	9
8.5	91.5	110	94.5	5.5	7
36.0	64.0	90	94.95	5.05	5
56.5	43.5	70	95.0	5.0	4.2
75.0	25.0	50	96.05	3.95	4.5
87.0	13.0	30	98.25	1.75	5
91.2	8.8	20	100.0	0	5.37
94.0	6.0	11			

**BENZOIC ACID - BENZENE
(SATURATED WITH WATER)**

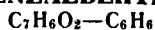
Solubility A, Wt. %	<i>t</i>
11.3	25

BENZOIC ACID - BENZENE

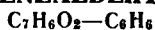
Solubility A, g/l.	<i>t</i>
77.6	18



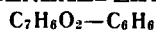
Mutual Solubility Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
5.1	94.9	4.3	34.1	65.9	60
6.1	93.9	10	44.5	55.5	70
8.95	91.05	20	55.6	44.4	80
10.85	89.15	25	67.3	32.7	90
13.0	87.0	30	78.3	21.7	100
18.4	81.6	40	88.9	11.1	110
25.3	74.7	50	100.0	0.0	121.7



Mutual Solubility Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
6.29	93.71	61.3	52.5	47.5	82.4
10.42	89.58	67.1	59.5	40.5	83.6
16.6	83.4	71.2	77.2	22.8	89.8
27.1	72.9	75.7	100.0	0.0	106.0
40.0	60.0	79.1			



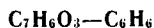
Mutual Solubility Wt. %		m.p	Mutual Solubility Wt. %		m.p
A	B		A	B	
0.0	100.0	5.32	20.4	79.6	-3.35
4.35	95.65	3.65	25.0	75.0	-5.40
8.23	91.77	2.15	31.4	68.6	-8.20
10.90	89.10	1.00	39.2	60.8	-12.15
15.0	85.0	-0.60			



Mutual Solubility Wt. %		m.p	Mutual Solubility, Wt. %		m.p
A	B		A	B	
3.64	96.36	65.0	46.0	54.0	89.5
11.09	88.91	81.4	59.8	40.2	93.5
20.0	80.0	84.1	72.6	27.4	100.6
31.0	69.0	86.7	100.0	0.0	116.0

№ 5813

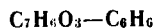
[2015]

**m - HYDROXYBENZOIC ACID –
BENZENE**

Solubility A, Wt. %	<i>t</i>
0.008	20
0.010	25
0.012	30
0.017	40
0.028	50
0.047	60

№ 5814

[1809]

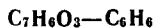
**m - HYDROXYBENZOIC ACID –
BENZENE**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.23	98.77	122.5
2.95	97.05	141.0
5.16	94.84	154.5
10.54	89.46	162.0
22.4	77.6	173.0
41.6	58.4	182.5
62.3	37.7	185.5
82.3	17.7	192.15

№ 5815

o - HYDROXYBENZOIC ACID – BENZENE

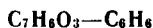
[2015]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.46	99.54	11.7	1.24	98.76	34.6
0.58	99.42	18.2	1.41	98.59	36.6
0.77	99.23	25.0	2.32	97.68	49.4
0.98	99.02	30.5	4.21	95.79	64.2

№ 5816

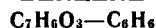
[1913]

**o - HYDROXYBENZOIC ACID –
BENZENE**

Solubility A, Wt. %	<i>t</i>
0.775	25

№ 5817

[669]

**o - HYDROXYBENZOIC ACID –
BENZENE**

Solubility A, g/l.	<i>t</i>
5.25	18
7.62	25

№ 5818

[1809]

**o - HYDROXYBENZOIC ACID -
BENZENE**
C₇H₆O₂-C₆H₆

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.92	98.08	44.3
5.27	94.73	65.0
20.8	79.2	98.5
41.1	58.9	114.5
64.5	35.5	131.5
81.3	18.7	140.0

№ 5819

[2015]

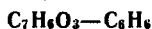
**p - HYDROXYBENZOIC ACID -
BENZENE**
C₇H₆O₂-C₆H₆

Solubility A, Wt. %	<i>t</i>
0.0018	10
0.0027	20
0.0035	25
0.0045	30
0.0082	40
0.0162	50
0.028	60
0.066	80

№ 5820

p - HYDROXYBENZOIC ACID - BENZENE

[1809]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A ₁	B	
1.04	98.96	132.2	21.0	79.0	191.5
3.04	96.96	156.9	40.6	59.4	195.7
4.3	95.7	165.2	61.3	38.7	198.8
10.3	89.7	178.0	83.0	17.0	206.0

№ 5821

m - AMINO BENZOIC ACID - BENZENE

[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.008	99.992	25	2.2	97.8	100
0.2	99.8	30	2.4	97.6	110
0.4	99.6	40	2.7	97.3	120
0.7	99.3	50	3.6	96.4	130
1.0	99.0	60	5.9	94.1	140
1.3	98.7	70	12.1	87.9	150
1.6	98.4	80	59.7	40.3	160
1.8	98.2	90	88.0	12.0	170

№ 5822

o - AMINO BENZOIC ACID - BENZENE

[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.81	99.19	25	13.5	86.5	90
1.3	98.7	30	20.0	80.0	100
2.3	97.7	40	34.3	65.7	110
3.6	96.4	50	52.5	47.5	120
5.3	94.7	60	70.6	29.4	130
7.2	92.8	70	88.8	11.2	140
9.9	90.1	80			

№ 5823

p - AMINO BENZOIC ACID - BENZENE

[1189]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.04	99.96	25	1.4	98.6	110
0.2	99.8	30	2.0	98.0	120
0.3	99.7	40	3.0	97.0	130
0.4	99.6	50	5.0	95.0	140
0.6	99.4	60	10.0	90.0	160
0.7	99.3	70	30.3	69.7	170
0.8	99.2	80	68.4	31.6	180
1.0	99.0	90	90.0	10.0	190
1.2	98.8	100			

№ 5824

[156]

**BENZENE - LUPININE
HYDROCHLORIDE**
 $C_6H_6 - C_{10}H_{20}NOCl$

Solubility A, Wt. %	<i>t</i>
0.0439	0
0.0443	20
0.0734	80.1

№ 5825

[1989]

**BUTYLMALONIC ACID -
BENZENE**
 $C_7H_{12}O_4 - C_6H_6$

Solubility A, Wt. %	<i>t</i>
0.044	25

№ 5826 [1989]

**HEPTANEDIOIC ACID –
BENZENE**
 $C_7H_{12}O_4 - C_6H_6$

Solubility A, Wt. %	<i>t</i>
0.0199	25

№ 5827 [2027]

**2, 2 - BIS(ETHYLSULFONYL)-
PROPANE – BENZENE**
 $C_7H_{16}S_2O_4 - C_6H_6$

Solubility A, Wt. %	<i>t</i>
0.76	25

№ 5828 [1856]

**ETHYLPENTACHLORO-
BENZENE – BENZENE**
 $C_5H_3Cl_5 - C_6H_6$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
46.8	53.2	22.12
64.5	35.5	32.36
85.1	14.9	42.57

№ 5829 [1802]

**PHTHALANDIONE
MONOXIME – BENZENE**
 $C_8H_6NO_3 - C_6H_6$

Solubility A, g/l.	<i>t</i>
0.33	20

№ 5830 [1856]

**TETRACHLORO - 1, 2 - DIMETHYL-
BENZENE – BENZENE**
 $C_8H_6Cl_4 - C_6H_6$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
0.77	99.23	8.77
1.10	98.90	19.92
1.50	98.50	29.93
2.17	97.83	41.88

№ 5831 [1806]

**m - PHTHALALDEHYDIC
ACID – BENZENE**
 $C_8H_6O_3 - C_6H_6$

Mutual Solubility Wt. %		<i>t</i>
A	B	
43.84	56.16	149.7
56.98	43.02	149.9
73.36	26.64	154.5
100.0	0.0	175.0

№ 5832

[1806]

**o - PHTHALALDEHYDIC
ACID – BENZENE**
 $C_8H_6O_3 - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
10.16	89.84	66.7
21.87	78.13	72.3
35.88	64.12	73.9
49.50	50.50	75.7
64.09	35.91	77.8
81.40	18.60	84.0

№ 5833 [1806]

**p - PHTHALALDEHYDIC
ACID - BENZENE**
 $C_8H_6O_3 - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.96	99.04	110.0
1.41	98.59	131.9
2.40	97.60	196.0
100.0	0.0	250.0

№ 5834 [1856]

**3, 4, 5 - TRICHLORO - 1, 2 -
DIMETHYLBENZENE - BENZENE**
 $C_8H_7Cl_3 - C_6H_6$

Mutual Solubility, Mol. %		<i>t</i>
A	B	
48.3	51.7	17.46
52.6	47.4	27.83
80.9	19.1	37.45

№ 5835

CHLOROACETOPHENONE - BENZENE
 $C_8H_7ClO - C_6H_6$

[71]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
6.65	93.35	3.1	28.4	71.6	3.4
8.68	91.32	2.6	32.3	67.7	6.5
10.24	89.76	2.15	47.0	53.0	18.1
12.48	87.52	1.45	54.0	46.0	23.3
15.97	84.03	0.35	64.0	36.0	29.0
20.9	79.1	-1.05	71.7	28.3	34.7
22.9	77.1	-1.6	78.0	22.0	39.4
25.4	74.6	0.9	89.9	10.1	47.1

№ 5836

[769]

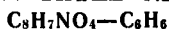
**2 - NITRO - 3 - METHYLBENZOIC
ACID - BENZENE**
 $C_8H_7NO_4 - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.03	99.97	20
0.22	99.78	40
0.41	99.59	60
0.45	99.55	80

№ 5837

6-NITRO-3-METHYLBENZOIC ACID

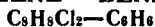
[769]



Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility Wt. %		
A	B	A		B	<i>t</i>	
0.71	99.29	10	14.5	85.5	50	
1.67	98.33	20	18.8	81.2	60	
3.38	96.62	30	31.1	68.9	70	
7.58	92.42	40	47.0	53.0	80	

№ 5838

[1856]

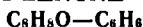
**4,5-DICHLORO-1,2-DIMETHYL-
BENZENE - BENZENE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
15.2	84.8	8.77
21.3	78.7	19.92
30.5	69.5	29.93

№ 5839

ACETOPHENONE - BENZENE

[71]

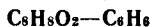


Mutual Solubility Wt. %			m.p	Mutual Solubility Wt. %		
A	B	A		B	m.p	
7.90	92.10	3.0	51.26	48.74	-11.1	
9.33	90.67	2.8	60.96	39.04	-6.5	
11.39	88.61	2.1	70.66	29.34	-0.65	
17.64	92.36	0.7	79.00	21.00	5.2	
20.46	79.54	-1.7	84.40	15.60	9.1	
26.76	73.24	-4.5	91.54	8.46	16.0	
43.80	56.20	-15.0	95.54	4.46	16.0	

№ 5840

PHENYLACETIC ACID - BENZENE

[1809]



Mutual Solubility Wt. %			m.p	Mutual Solubility, Wt. %		
A	B	A		B	m.p	
6.22	93.78	4.6	28.00	72.00	13.0	
13.04	86.96	3.2	42.98	57.02	29.0	
16.30	83.70	2.2	61.28	38.72	42.0	
19.93	80.07	3.0	81.03	18.97	59.0	

№ 5841 2-HYDROXY-5-METHYLBENZALDEHYDE – BENZENE [1804]
 $C_8H_8O_2 - C_6H_6$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.0	100.0	5.32	34.0	66.0	6.05
5.56	94.44	3.45	41.7	58.3	11.5
11.50	88.50	1.30	55.4	44.6	21.6
17.0	83.0	-0.6	64.4	35.6	28.0
21.5	78.5	-2.4	71.0	29.0	31.8
23.3	76.7	-3.0	90.9	9.1	46.0
27.4	72.6	0.15			

№ 5842 4-HYDROXY-5-METHYLBENZALDEHYDE – BENZENE [1804]
 $C_8H_8O_2 - C_6H_6$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
2.27	97.73	37.2	38.6	61.4	83.7
7.08	92.92	66.7	48.4	51.6	85.8
11.7	88.3	72.4	63.0	37.0	92.1
18.8	81.2	76.0	73.9	26.1	98.2
26.9	73.1	79.8	100.0	0.0	117.4

№ 5843 4-HYDROXY-6-METHYLBENZALDEHYDE – BENZENE [1804]
 $C_8H_8O_2 - C_6H_6$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
4.94	95.06	54.7	53.3	46.7	81.8
8.19	91.81	67.5	67.5	32.5	86.7
17.5	82.5	72.9	71.5	28.5	89.1
33.2	66.8	75.7	100.0	0.0	108.9

№ 5844 [1809]
2-HYDROXY-3-METHYLBENZOIC
ACID – BENZENE
 $C_8H_8O_3 - C_6H_6$

Mutual Solubility, Wt. %		t
A	B	
2.01	97.99	45.2
5.23	94.77	62.4
9.67	90.33	79.0
29.96	70.04	107.2
49.18	50.82	123.0
69.92	30.08	138.3
90.33	9.67	155.4

№ 5845 [1809]
2-HYDROXY-4-METHYLBENZOIC
ACID – BENZENE
 $C_8H_8O_3 - C_6H_6$

Mutual Solubility, Wt. %		t
A	B	
2.02	97.98	48.8
4.96	95.04	71.7
9.74	90.26	90.2
29.33	70.67	117.6
50.7	49.3	135.1
71.7	28.3	150.3
91.6	8.4	167.3

№ 5846 [1809]
2-HYDROXY-5-METHYLBENZOIC ACID - BENZENE
 $C_8H_8O_3 - C_6H_6$

Mutual Solubility Wt. %		<i>t</i>
A	B	
1.76	98.24	30.0
4.73	95.27	48.8
10.53	89.47	68.0
29.98	70.02	93.3
52.05	47.95	110.6
70.36	29.64	124.7
91.10	8.90	142.0

№ 5847 [1809]
3-HYDROXY-4-METHYLBENZOIC ACID - BENZENE
 $C_8H_8O_3 - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.18	97.82	131.6
4.87	95.13	147.4
9.8	90.2	160.5
29.8	70.2	176.5
50.0	50.0	183.7
72.7	27.3	192.0
91.7	8.3	202.5

№ 5848 **4-HYDROXY-3-METHYLBENZOIC ACID - BENZENE** [1809]
 $C_8H_8O_3 - C_6H_6$

Mutual Solubility Wt. %			<i>t</i>	Mutual Solubility Wt. %			<i>t</i>
A	B			A	B		
2.78	97.22	109.5	52.6	47.4	145.0		
4.78	95.22	116.7	71.7	28.3	152.8		
10.11	89.89	126.2	90.7	9.3	166.0		
29.8	70.2	139.5					

№ 5849 [1772]
MANDELIC ACID - BENZENE
 $C_8H_8O_3 - C_6H_6$

Solubility A, g/l	<i>t</i>
0.746	19

№ 5850 **m-CHLOROACETANILIDE - BENZENE** [1815]
 $C_8H_8NOCl - C_6H_6$

Mutual Solubility, Wt. %			m.p	Mutual Solubility Wt. %			m.p
A	B			A	B		
20.04	79.96	15.4	68.17	31.83	51.5		
32.81	67.19	29.2	81.20	18.80	61.0		
47.31	52.69	39.5	92.74	7.26	70.0		
59.51	40.49	46.0	100.0	0.0	76.6		

№ 5851

o-CHLOROACETANILIDE – BENZENE
 $C_8H_8NOCl - C_6H_6$

[1815]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
9.56	90.44	10.0	52.06	47.94	50.5
13.50	86.50	20.2	68.22	31.78	61.4
21.77	78.23	31.4	79.53	20.47	69.5
30.65	69.35	37.8	92.16	7.84	80.0
41.69	58.31	45.2	97.45	2.55	84.8

№ 5852

p-CHLOROACETANILIDE – BENZENE
 $C_8H_8NOCl - C_6H_6$

[1815]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.21	95.79	96.5	55.86	44.14	144.2
6.63	93.37	107.5	69.67	30.33	154.5
18.16	81.84	122.4	78.50	21.50	162.0
21.14	78.86	125.2	93.62	6.38	172.0
37.80	62.20	134.5	100.0	0.0	178.4

№ 5853

m-NITROACETANILIDE – BENZENE
 $C_8H_8N_2O_2 - C_6H_6$

[1815]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
5.04	94.96	102.0
13.47	86.53	115.0
35.13	64.87	121.2
65.27	34.73	126.8
83.07	16.93	135.3
100.0	0.0	154.5

№ 5854

o-NITROACETANILIDE – BENZENE
 $C_8H_8N_2O_2 - C_6H_6$

[1815]

Mutual Solubility, Wt. %		<i>t</i>
A	B	
10.26	89.74	39.0
16.44	83.56	46.8
31.49	68.51	58.5
54.97	45.03	68.0
67.97	32.03	71.5
79.08	20.92	76.4
87.58	12.42	81.2

№ 5855

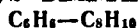
p-NITROACETANILIDE – BENZENE
 $C_8H_8N_2O_2 - C_6H_6$

[1815]

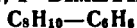
Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.23	94.77	150.6	54.78	45.22	180.3
17.47	82.53	172.6	72.62	27.38	186.5
37.37	62.63	177.5	87.48	12.52	197.4
49.93	50.07	179.4			

BENZENE - 1, 3-DIMETHYLBENZENE

Mutual Solubility Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
4.54	95.46	-49.5	50.67	49.33	-24.8
8.17	91.83	-52.0	55.30	44.70	-21.0
15.00	85.00	-55.8	59.10	40.90	-17.5
19.80	80.20	-58.3	64.96	35.04	-14.0
21.83	78.17	-59.5	69.80	30.20	-10.5
25.12	74.88	-53.5	74.75	25.25	-7.6
29.89	70.11	-47.0	79.58	20.42	-4.8
35.08	64.92	-39.8	89.70	10.30	0.3
40.35	59.65	-34.0	95.71	4.29	3.4
44.84	55.16	-29.5			

BENZENE - 1, 2-DIMETHYLBENZENE

Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.0	100.0	-25.5	50.0	50.0	-26.5
7.1	92.9	-29.0	55.5	44.5	-22.0
15.4	84.6	-33.0	62.4	37.6	-16.2
20.7	79.3	-36.5	70.2	29.8	-11.0
25.2	74.8	-39.0	77.5	22.5	-7.0
30.5	69.5	-41.5	85.1	14.9	-2.0
33.5	66.5	-43.5	92.6	7.4	1.2
37.1	62.9	-39.0	100.0	0.0	5.5
43.6	56.4	-33.0			

BENZENE - 1, 4-DIMETHYLBENZENE

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	5.5	44.18	55.82	-22.0
10.04	89.96	0.7	45.10	54.90	-20.7
19.37	80.63	-4.4	54.46	45.54	-14.6
25.27	74.73	-7.5	67.33	32.67	-6.5
34.56	65.44	-14.5	76.10	23.90	-1.3
39.42	60.58	-17.9	80.22	19.78	1.8
42.70	57.30	-20.0	100.00	0.00	13.3



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.0	100.0	-94.4	25.1	74.9	-56.5
3.8	96.2	-96.0	30.5	69.5	-49.3
5.63	94.37	-97.0	40.3	59.7	-37.5
8.2	91.8	-98.0	45.5	54.5	-31.0
10.2	89.8	-90.0	50.0	50.0	-27.5
11.0	89.0	-94.0	59.1	40.9	-20.0
13.0	87.0	-80.0	70.3	29.7	-12.0
15.0	85.0	-75.5	80.6	19.4	-5.5
15.4	84.6	-73.0	89.7	10.3	0.0
19.8	80.2	-65.0	100.0	0.0	5.5



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
3.13	96.87	56.5	76.17	23.83	193.4
6.72	93.28	107.1	76.86	23.14	188.4
12.24	87.76	163.2	77.50	22.50	184.9
22.75	77.25	228.5	77.55	22.45	185.4
39.10	60.90	263.4	78.61	21.39	187.1
44.31	55.69	265.5	80.12	19.88	190.0
49.23	50.77	265.1	85.50	14.50	203.1
57.03	42.97	257.6	91.06	8.94	221.9
68.90	31.10	227.8	100.0	0.0	279.0
74.65	25.35	201.9			



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
4.13	95.87	29.9	51.50	48.50	106.7
11.21	88.79	53.6	65.12	34.88	117.8
20.24	79.76	73.5	77.76	22.24	127.5
27.36	72.64	84.2	88.05	11.95	135.2
35.27	64.73	92.4	100.0	0.0	144.8
43.04	56.96	99.8			

№ 5862

N - ACETYL - p - PHENYLENEDIAMINE - BENZENE

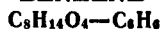
[1813]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
7.15	92.85	116.2	73.90	26.10	146.8
17.36	82.64	180.2	74.00	26.00	146.8
30.12	69.88	187.8	74.62	25.38	147.3
41.23	58.77	186.3	76.85	23.15	148.2
51.70	48.30	181.3	78.41	21.59	148.7
59.95	40.05	170.0	80.70	19.30	149.8
63.07	36.93	163.5	86.19	13.81	152.0
67.66	32.34	155.9	93.82	6.18	156.8
71.05	28.95	150.1	100.00	0.0	160.5
72.71	27.29	147.1			

№ 5863

[1989]

**PENTYLMALONIC ACID -
BENZENE**

Solubility A, Wt. %	<i>t</i>
0.765	25

№ 5864

ISOQUINOLINE - BENZENE

[88]



Mutual Solubility Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.00	100.00	5.5	56.40	43.60	-15.0
9.93	90.07	1.5	61.65	38.35	-10.5
15.00	85.00	-0.6	69.95	30.05	-2.0
23.00	77.00	-4.6	74.60	25.40	2.0
29.20	70.80	-7.5	81.23	18.77	7.3
38.40	61.60	-12.8	89.82	10.18	15.6
42.10	57.90	-15.5	100.00	0.00	24.0
49.90	50.10	-20.0			

HALIDES OF CINNAMIC ACIDS — BENZENE

— — C₆H₅

A		Solubility A, Wt. %	t
Name	Formula		
trans- α -Chlorocinnamic Acid	C ₉ H ₇ O ₂ Cl	2.53	20
cis- α -Chlorocinnamic Acid	"	9.91	21
trans- α -Bromocinnamic Acid	C ₉ H ₇ O ₂ Br	4.92	20
cis- α -Bromocinnamic Acid	"	6.45	18.5
trans- β -Chlorocinnamic Acid	C ₉ H ₇ O ₂ Cl	1.90	17
cis- β -Chlorocinnamic Acid	"	3.07	16
trans- β -Bromocinnamic Acid	C ₉ H ₇ O ₂ Br	1.55	13
cis- β -Bromocinnamic Acid	"	0.85	14
cis-Dichlorocinnamic Acid	C ₉ H ₆ O ₂ Cl ₂	5.75	13
trans-Dichlorocinnamic Acid	"	17.49	14
cis-Dibromocinnamic Acid	C ₉ H ₆ O ₂ Br ₂	21.20	14
trans-Dibromocinnamic Acid	"	9.58	14

ALKYLCINNAMIC ACIDS — BENZENE

C₆H₇O₂R — C₆H₅

A		Solubility A, Wt. %	t
Name	Formula		
β -Methylcinnamic Acid (stable)	C ₁₀ H ₁₀ O ₂	16.11	21
β -Methylcinnamic Acid (unstable)	"	7.23	21
β -Methylcinnamic Acid (mixed form)	"	29.68	21
β -Ethylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₂	30.80	20
β -Ethylcinnamic Acid (unstable)	"	17.70	20
β -Ethylcinnamic Acid (mixed form)	"	54.95	20
β -Propylcinnamic Acid (stable)	C ₁₂ H ₁₄ O ₂	12.74	18
β -Propylcinnamic Acid (unstable)	"	36.71	22
β -Propylcinnamic Acid (mixed form)	"	46.95	23
o-Methoxy- β -Methylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₃	9.09	21
o-Methoxy- β -Methylcinnamic Acid (unstable)	"	7.58	21
o-Methoxy- β -Methylcinnamic Acid (mixed form)	"	24.92	21
p-Methyl- β -methylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₂	2.53	20
p-Methyl- β -methylcinnamic Acid (unstable)	"	10.55	20
p-Methyl- β -methylcinnamic Acid (mixed form)	"	15.40	20

№ 5867

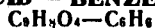
INDENE – BENZENE

[88]



Mutual Solubility Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.00	100.00	5.5	63.40	36.60	-37.8
9.90	90.10	1.6	65.40	34.60	-39.0
20.20	79.80	-4.6	69.81	30.19	-34.5
29.67	70.33	-11.4	76.64	23.36	-27.0
36.96	63.04	-15.3	85.49	14.51	-18.0
49.00	51.00	-24.7	92.05	7.95	-10.5
59.20	40.80	-35.2	100.00	0.00	-1.8

№ 5868 [2027]

o-ACETOXYBENZOIC**ACID – BENZENE**

Solubility A, Wt. %	t
0.325	25

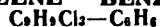
№ 5869 [1856]

**1, 2, 4 - TRICHLOROTRIMETHYL -
BENZENE – BENZENE**

Mutual Solubility, Mol. %		t
A	B	
1.11	98.89	8.77
1.47	98.53	19.92
2.17	97.83	29.93
3.19	96.81	41.88

№ 5870

[1856]

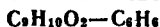
**1, 3, 5 - TRICHLOROTRIMETHYL -
BENZENE – BENZENE**

Mutual Solubility, Mol. %		t
A	B	
0.70	99.30	8.77
1.36	98.64	19.92
1.90	98.10	29.93
2.70	97.30	41.88

№ 5871

3 - PHENYLPROPANOIC ACID – BENZENE

[1809]

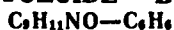


Mutual Solubility Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.00	100.00	5.5	60.43	39.57	12.8
19.65	80.35	1.5	78.87	21.13	28
31.26	68.74	-1.8	100.00	0.00	48.6
40.20	59.80	-3.1			

№ 5872

o-ACETOTOLUIDE - BENZENE

[854]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
0.8	99.2	35	41.5	58.5	75
2.2	97.8	40	49.4	50.6	80
4.3	95.7	45	56.9	43.1	85
7.5	92.5	50	65.0	35.0	90
12.6	87.4	55	73.3	26.7	95
19.2	80.8	60	81.8	18.2	100
26.8	73.2	65	90.3	9.7	105
34.0	66.0	70	100.0	0.0	110.3

№ 5873

p-ACETOTOLUIDE - BENZENE

[1553]

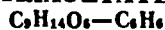


Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
1.916	98.084	70.1	38.43	61.57	111.3
4.764	95.236	79.7	61.09	38.91	128.5
10.00	90.00	88.5	78.01	21.99	137.8
22.66	77.34	98.8	100.0	0.0	148.5

№ 5874

GLYCEROL TRIACETATE - BENZENE

[1240]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
8.73	91.27	3.51	35.81	64.19	-3.0
9.74	90.26	3.2	42.19	57.81	-5.0
15.91	84.09	2.0	46.90	53.10	-6.8
16.28	83.72	1.8	47.53	52.47	-7.2
18.60	81.40	1.3	52.31	47.69	-9.0
24.96	75.04	-0.2	62.13	37.87	-14.0
29.90	70.10	-1.6	63.87	36.13	-14.6
30.76	69.24	-1.7	77.14	22.86	-26.0
30.24	69.76	-1.9	84.20	15.80	-38.0

№ 5875

[1989]

**NONANEDIOIC ACID –
BENZENE**
 $C_9H_{16}O_4 - C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.092	25

№ 5876

[1989]

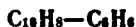
**HEXYLMALONIC ACID –
BENZENE**
 $C_8H_{16}O_4 - C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.0306	25

№ 5877

NAPHTHALENE – BENZENE

[2024]

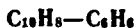


Mutual Solubility Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
21.87	78.13	0	54.75	45.25	40
24.81	75.19	5	59.67	40.33	45
28.06	71.94	10	65.98	34.02	50
31.97	68.03	15	71.83	28.17	55
35.90	64.10	20	77.27	22.73	60
40.30	59.70	25	82.45	17.55	65
44.90	55.10	30	88.23	11.77	70
50.00	50.00	35			

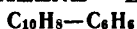
№ 5878

NAPHTHALENE – BENZENE

[1724]



Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
21.17	78.83	-5.0	33.00	67.00	16.0
23.09	76.91	0	37.21	62.79	21.0
25.37	74.63	5.2	46.08	53.92	31.0
27.83	72.17	9.2	56.22	43.78	41.0

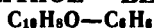


Solubility A, Wt. %	m.p.	Solubility A, Wt. %	m.p.	Solubility A, Wt. %	m.p.
5.06	3.3	30.00	10.6	70.19	54.0
10.38	1.1	35.10	17.2	75.10	58.2
12.66	0	40.01	23.0	80.14	62.2
14.63	-1.0	44.91	28.5	85.01	67.0
18.26	-2.5	50.12	34.2	89.92	71.0
20.20	-3.6	55.08	39.6	95.00	76.5
21.18	-3.5	59.81	44.5		
25.04	4.0	65.00	49.0		

№ 5880

[2027]

2-NAPHTHOL - BENZENE



Solubility A, Wt. %	<i>t</i>
3.96	25

№ 5881

[1856]

1, 2-DICHLOROTETRAMETHYL -
BENZENE - BENZENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
1.88	98.12	8.77
2.53	97.47	19.92
3.70	96.30	29.93
4.75	95.25	41.88

№ 5882

[1802]

CAMPHORIC ANHYDRIDE -
BENZENE

Solubility A, g/l.	<i>t</i>
37.5	5

№ 5883

[156]

BENZENE - ANABASINE
HYDROCHLORIDE

Solubility A, Wt. %	<i>t</i>
0.0129	0
0.0254	20
0.0442	80.1

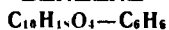
№ 5884

[156]

BENZENE - ANABASINE
HYDRIODIDE

Solubility A, Wt. %	<i>t</i>
0.0062	0
0.0128	20
0.0138	80.1

№ 5885 [1989]

HEPTYLMALONIC ACID -**BENZENE**

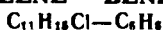
Solubility A, Wt.%	<i>t</i>
0.097	25

№ 5886 [2027]

ANTIPYRINE - BENZENE

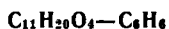
Solubility A, Wt.%	<i>t</i>
7.49	25

№ 5887 [1856]

**CHLOROPENTAMETHYL-
BENZENE - BENZENE**

Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.49	96.51	8.77
4.88	95.12	19.92
7.37	92.63	29.93
10.16	89.90	41.88

№ 5888 [1989]

**OCTYLMALONIC ACID -
BENZENE**

Solubility A, Wt.%	<i>t</i>
0.0132	25

№ 5889 [1989]

**UNDECANEDIOIC
ACID - BENZENE**

Solubility A, Wt.%	<i>t</i>
0.0036	25

№ 5890 [496]

CARBAZOLE - BENZENE

Mutual Solubility Wt.%		<i>t</i>
A	B	
0.71	99.29	15.5
1.00	99.00	30
4.81	95.19	50

№ 5891 [2026]

BIPHENYL - BENZENE

Mutual Solubility, Mol.%		<i>t</i>
A	B	
41.0	59.0	27.9
58.5	41.5	43.1
60.5	39.5	44.3
62.6	37.4	45.5
67.7	32.3	49.4
71.3	28.7	52.3

№ 5892 [688]

**p-HYDROXYAZOBENZENE -
BENZENE**
 $C_{12}H_{10}N_2O - C_6H_6$

Solubility A, g/l.	<i>t</i>
15.20	25

№ 5893 [1856]

**HEXAMETHYLBENZENE -
BENZENE**
 $C_{12}H_{18} - C_6H_6$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
2.77	97.23	8.77
3.82	96.18	19.92
5.83	94.17	29.93
8.14	91.86	41.88

№ 5894 [1989]

**DECYLMALONIC ACID -
BENZENE**
 $C_{12}H_{22}O_4 - C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.0066	25

№ 5895 [1253]

**DODECANOIC ACID -
BENZENE**
 $C_{12}H_{24}O_2 - C_6H_6$

Solubility A, Wt.%	<i>t</i>	
65.0	25	
Dissolves completely		40

№ 5896 [400]

DODECYLAMMONIUM CHLORIDE - BENZENE
 $C_{12}H_{25}NCl - C_6H_6$

Mutual Solubility, Wt.%			Mutual Solubility, Wt.%		
A	B	<i>t</i>	A	B	<i>t</i>
0.25	99.75	45.53	17.53	82.47	56.67
0.57	99.43	48.08	18.02	81.98	56.79
0.93	99.07	49.19	18.67	81.33	57.04
4.93	95.07	52.98	18.83	81.17	57.23
9.91	90.09	54.89	20.03	79.97	57.41
10.33	89.67	55.05	22.11	77.89	59.09
12.18	87.82	55.31	24.97	75.03	61.33
14.92	85.08	56.00	29.86	70.14	65.16
15.11	84.89	56.13	35.01	64.99	69.71
15.94	84.06	56.26	39.93	60.07	74.28
17.05	82.95	56.55			

№ 5897 [545]

**2-CHLORO-7-NITRO-9-
FLUORENONE - BENZENE**
 $C_{12}H_6NO_2Cl - C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.25	18

№ 5898 [545]

**2-BROMO-7-NITRO-9-
FLUORENONE - BENZENE**
 $C_{12}H_6NO_2Br - C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.20	18

№ 5899 [545]
**2-CHLORO-7-AMINO-9-
 FLUORENONE - BENZENE**
 $C_{13}H_8NOCl-C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.37	18

№ 5900 **2-BROMO-7-NITRO-
 9-FLUORENONE OXIME -
 BENZENE** [545]
 $C_{13}H_8NOBr-C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.28	18

№ 5901 [545]
**2-CHLORO-7-NITROFLUORENE -
 BENZENE**
 $C_{13}H_8NO_2Cl-C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.37	18

№ 5902 [545]
**2-BROMO-7-NITROFLUORENE -
 BENZENE**
 $C_{13}H_8NO_2Br-C_6H_6$

Solubility A, Wt.%	<i>t</i>
0.31	18

№ 5903 [1401]
FLUORENE - BENZENE.
 $C_{13}H_{10}-C_6H_6$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
5.4	94.6	0
10.5	89.5	20
19.0	81.0	40
32.4	67.6	60
51.1	48.9	80

№ 5904 [1473]
BENZOPHENONE - BENZENE
 $C_{13}H_{10}O-C_6H_6$

Solubility A, Wt.%	<i>t</i>
44.0	25

№ 5905 [2027]
**PHENYL-*o*-HYDROXYBENZOATE -
 BENZENE**
 $C_{13}H_{10}O_3-C_6H_6$

Solubility A, Wt.%	<i>t</i>
69.6	25

№ 5906

[545]

**2-CHLORO-7-AMINO-
FLUORENE - BENZENE**



Solubility A, Wt. %	<i>t</i>
4.34	18

№ 5907

[545]

**2-BROMO-7-AMINO-
FLUORENE - BENZENE**



Solubility A, Wt. %	<i>t</i>
2.78	18

№ 5908

[545]

**2-BROMO-7-AMINO-9-
FLUORENOL - BENZENE**

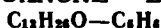


Solubility A, Wt. %	<i>t</i>
0.22	18

№ 5909

[935]

2-TRIDECANONE - BENZENE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
32.0	68.0	—5.8
58.0	42.0	10
81.1	18.9	20

№ 5910

**METHYLDODECYLAMMONIUM CHLORIDE -
BENZENE**

[400]

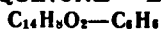


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
0.06	99.94	20.93	7.55	92.45	52.49
0.10	99.90	24.60	8.03	91.97	52.93
0.16	99.84	28.37	9.02	90.98	54.01
0.49	99.51	35.36	10.06	89.94	55.79
1.05	98.95	39.94	12.57	87.43	59.50
1.42	98.58	41.99	14.94	85.06	62.59
3.06	96.94	46.71	17.43	82.57	65.54
4.65	95.35	49.39	20.20	79.80	68.60
6.09	93.91	51.09	25.16	74.84	73.80
7.03	92.97	52.05	29.92	70.08	78.33

№ 5911

ANTHRAQUINONE - BENZENE

[1973]

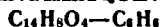


Solubility A, Wt. %	<i>t</i>	d_4^t	Solubility A, Wt. %	<i>t</i>	d_4^t
0.110	0	0.8900	0.695	50	0.8439
0.255	20	0.8794	0.965	60	0.8389
0.349	30	0.8692	1.337	70	0.8288
0.492	40	0.8591	1.744	80	0.8190

№ 5912

DIHYDROXYANTHRAQUINONE - BENZENE

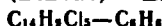
[1973]



Solubility A, Wt. %	<i>t</i>	d_4^t	Solubility A, Wt. %	<i>t</i>	d_4^t
0.410	10	0.8902	1.336	59	0.8506
0.469	15	0.8850	1.730	60	0.8415
0.535	20	0.8800	2.617	70	0.8327
0.733	30	0.8698	3.633	80	0.8241
1.021	40	0.8601			

№ 5913

[840]

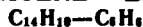
DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) - BENZENE

Mutual Solubility Wt. %		<i>t</i>
A	B	
6.8	93.2	0.0
27.1	72.9	7.2
44.0	56.0	24.0
57.8	42.2	48.0

№ 5914

ANTHRACENE - BENZENE

[1973]



Solubility A, Wt. %	<i>t</i>	d_4^t	Solubility A, Wt. %	<i>t</i>	d_4^t
0.601	0	0.9008	3.61	50	0.8541
0.966	10	0.8909	4.89	60	0.8460
1.41	20	0.8812	6.54	70	0.8374
1.99	30	0.8717	7.71	75	0.8347
2.70	40	0.8627			

№ 5915 [496]
ANTHRACENE – BENZENE
 $C_{14}H_{10} - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.04	98.96	15.5
2.06	97.94	30

№ 5916 [496]
PHENANTHRENE – BENZENE
 $C_{14}H_{10} - C_6H_6$

Mutual Solubility Wt. %		<i>t</i>
A	B	
14.32	85.68	15.5
28.62	71.38	30

№ 5917 [887]
PHENANTHRENE – BENZENE
 $C_{14}H_{10} - C_6H_6$

Mutual Solubility Wt. %		<i>t</i>
A	B	
22.99	77.01	5
26.83	73.17	10
30.58	69.42	15
34.08	65.92	20
37.62	62.38	25
41.07	58.93	30

№ 5918 [1802]
**N - ANILINOPHTHALIMIDE –
 BENZENE**

Solubility A, g/l.		<i>t</i>
A - form	B - form	
5.5	1.1	5

№ 5919 **α -PHENYLGLYOXAL PHENYLHYDRAZONE – BENZENE** [1808]
 $C_{14}H_{12}N_2O - C_6H_6$

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.84	94.16	3.0	38.6	61.4	50.0
10.4	89.6	8.0	45.0	55.0	56.0
19.9	80.1	29.0	89.8	10.2	75.3
30.2	69.8	40.8			

№ 5920 β -PHENYLGLYOXAL PHENYLHYDRAZONE – BENZENE [1808]
 $C_{14}H_{12}N_2O - C_6H_6$

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
0.322	99.678	3.0	38.6	61.4	74.3
4.8	95.2	26.0	45.0	55.0	79.5
10.4	89.6	44.2	70.8	29.2	98.0
19.9	80.1	59.1	89.8	10.2	115.1
30.2	69.8	67.2			

№ 5921 [1989]

UNDECYLMALONIC ACID –
 BENZENE



Solubility A, Wt.%	<i>t</i>
0.0139	25

№ 5922

[400]

DIMETHYLDODECYLAMMONIUM CHLORIDE – BENZENE



Mutual Solubility, wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
0.15	99.85	15.05	3.43	96.57	66.73
0.30	99.70	26.97	4.93	95.07	71.99
0.70	99.30	41.84	6.20	93.80	75.24
1.13	98.87	49.40	7.61	92.39	78.38
1.73	98.27	57.21	8.69	91.31	80.01
2.51	97.49	62.56			

№ 5923 [1802]

N-(N'-METHYLANILINO)-
 PHTHALIMIDE – BENZENE



Solubility A, g/l.	<i>t</i>
124	5

№ 5924

[156]

**BENZENE – APHILIDINE
CHLORO HYDRATE**


Solubility A, Wt. %	<i>t</i>
0.0122	0
0.0181	20
0.1737	80.1

№ 5925

[156]

**BENZENE – APHILIDINE
IODOHYDRATE**


Solubility A, Wt. %	<i>t</i>
0.0396	0
0.0404	20
0.0417	80.1

№ 5926

[1536]

**NAPHTHALENE PICRATE –
BENZENE**


Mutual Solubility Wt. %		<i>t</i>
A	B	
8.1	91.9	5
9.2	90.8	10
12.7	87.3	20
17.0	83.0	30
24.6	75.4	40
29.5	70.5	45

№ 5927

FLUORANTHENE – BENZENE

[90]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	5.5	34.80	65.20	34.5
4.80	95.20	3.3	37.40	62.60	36.3
10.78	89.22	1.7	42.30	57.70	42.6
13.67	86.33	1.2	50.99	49.01	51.2
15.31	84.69	4.0	58.20	41.80	60.0
17.59	82.41	7.7	66.23	33.77	70.1
22.70	77.30	17.0	71.22	28.78	75.1
26.63	73.37	22.3	100.00	0.00	110.0
30.37	69.63	27.6			



Mutual Solubility, Mol. %			Mutual Solubility, Mol. %		
A	B	m.p.	A	B	m.p.
100.0	0.0	5.02	61.7	38.3	126.8
99.52	0.48	4.6	50.7	49.3	134.2
99.05	0.95	29.5	38.9	61.1	137.4
88.8	11.2	102.0	20.7	79.3	148.4
80.8	19.2	111.6	0.0	100.0	157.0

№ 5929 [2027]

PHENOBARBITAL — BENZENE



Solubility A, Wt. %	<i>t</i>
0.057	25

№ 5930 [20]

BENZENE — SCARLET DYE
J FOR SILK ACETATE

Solubility B, Wt. %	<i>t</i>
0.5	20

№ 5931 [20]

BENZENE — BLUE DYE K
FOR SILK ACETATE

Solubility B, Wt. %	<i>t</i>
0.04	20

№ 5932 [1802]

BENZOYL CAMPHOR — BENZENE



Solubility A, g/l.	<i>t</i>
256	5

№ 5933 [1418]

COCAINE — BENZENE



Solubility A, Wt. %	<i>t</i>
50	20

№ 5934 [20]

BENZENE — SUDAN YELLOW
DYE U

Solubility B, Wt. %	<i>t</i>
3.04	20

№ 5935

[1711]

CODEINE — BENZENE



Solubility A, Wt. %	<i>t</i>
10.23	25

№ 5936

[637]

**2-UNDECYLBENZOTHAZOLE -
BENZENE**



Mutual Solubility Wt. %		<i>t</i>
A	B	
58.0	42.0	-9.3
87.3	12.7	10
Completely miscible		20

№ 5937

[932]

**9, 12-OCTADECADIENOIC
ACID - BENZENE**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
74.6	25.4	-21.2
76.2	23.8	-20
92.6	7.4	-10
Completely miscible		0

№ 5938

[932]

**9-OCTADECENOIC
ACID - BENZENE**



Mutual Solubility, Wt. %		<i>t</i>
A	B	
59.7	40.3	-9.2
71.7	28.3	0
90.1	9.9	10
Completely miscible		20

№ 5939

[853]

**TRIPHENYLCHLORO-
METHANE - BENZENE**



Solubility A, Wt. %	<i>t</i>
46.2	25

№ 5940

[853]

**TRIPHENYLBROMO-
METHANE - BENZENE**



Solubility A, Wt. %	<i>t</i>
28.3	25

№ 5941

TRIPHENYLMETHANE - BENZENE

[1226]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
3.75	96.25	3.9	16.40	83.60	42.0
3.90	96.10	4.0	18.46	81.54	44.6
4.92	95.08	12.5	23.45	76.55	50.1
6.38	93.61	16.1	28.83	71.17	55.5
6.75	93.25	19.4	58.33	41.67	71.0
8.22	91.78	23.1	76.17	23.83	76.2
9.49	90.51	37.5			

№ 5942

TRIPHENYLMETHANE - BENZENE

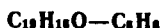
[873]



Mutual Solubility, Wt.%			Mutual Solubility, Wt.%		
A	B	<i>t</i>	A	B	<i>t</i>
12.6	87.4	33	84.1	15.9	76.2
24.0	76.0	49.4	87.5	12.5	74.6
38.9	61.1	65.6	89.0	11.0	76.0
57.5	42.5	73.8	90.5	9.5	78.8
67.4	32.6	77.1	93.1	6.9	82.3
76.3	23.7	77.9	95.7	4.3	86.6
80.2	19.8	77.5			

№ 5943

[853]

**TRIPHENYL CARBINOL -
BENZENE**

Solubility A, Wt.%	<i>t</i>
14.2	25

№ 5944

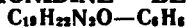
[1711]

CINCHONINE - BENZENE

Solubility A, Wt.%	<i>t</i>
0.057	25

№ 5945

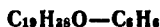
[1711]

CINCHONIDINE - BENZENE

Solubility A, Wt.%	<i>t</i>
0.127	25

№ 5946

[935]

2-NONADECANONE - BENZENE

Mutual Solubility, Wt.%			Mutual Solubility, Wt.%		
A	B	<i>t</i>	A	B	<i>t</i>
6.3	93.7	5.2	45.5	54.5	30
10.6	89.4	10	69.9	30.1	40
24.9	75.1	20	91.9	8.1	50

№ 5947

[2027]

NARCOTINE - BENZENE

Solubility A, Wt.%	<i>t</i>
4.30	25



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	m.p.	A	B	m.p.
0	100	5.4	51.8	48.2	109
0.72	99.28	17	75.46	24.54	130
1.48	98.52	29	80.0	20.0	137
2.36	97.64	38.5	83.04	16.96	142
4.81	95.19	53.5	85.26	14.74	146
6.09	93.91	63	87.44	12.56	152
30.01	69.99	91	91.4	8.6	158.5
43.4	56.6	102	95.02	4.98	166
45.9	54.1	104.5	100.0	0.0	174.7

№ 5949

[2058]

QUININE - BENZENE



Solubility A, Wt. %	<i>t</i>
0.5	20

№ 5950

[1418]

QUINIDINE - BENZENE



Solubility A, Wt. %	<i>t</i>
2.39	20

№ 5951

[1711]

QUINIDINE - BENZENE



Solubility A, g/l.	<i>t</i>
11.9	25

№ 5952

[1418]

STRYCHNINE - BENZENE



Solubility A, Wt. %	<i>t</i>
0.70	20

№ 5953

[1711]

STRYCHNINE - BENZENE



Solubility A, Wt. %	<i>t</i>
0.75	25

№ 5954

[1711]

DIACETYLMORPHINE - BENZENE



Solubility A, g/l.	<i>t</i>
125	25

№ 5955 [20]

**BENZENE – SUDAN
BLUE DYE U**

Solubility B Wt. %	<i>t</i>
0.9	20

№ 5956 [1418]

BRUCINE – BENZENE

Solubility A, Wt. %	<i>t</i>
1.11	20

№ 5957 [1711]

BRUCINE – BENZENE

Solubility A, Wt. %	<i>t</i>
1.86	25

№ 5958 [20]

**BENZENE – SUDAN
RED DYE 7V**

Solubility B Wt. %	<i>t</i>
15.0	20

№ 5959 [637]

**2-HEPTADECYLBENZOTHAZOLE –
BENZENE**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
28.5	71.5	1
40.1	59.9	10
57.4	42.6	20
78.9	21.1	30
Completely miscible		40

№ 5960 [20]

**BENZENE – ACID DYE
BRIGHT GREEN J**

Solubility B Wt. %	<i>t</i>
0	20

№ 5961 [20]

**BENZENE – CYANINE
DYE GREEN 5G**

Solubility B Wt. %	<i>t</i>
0.8	20

№ 5962

[913]

DOTRIACONTANE – BENZENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.53	98.47	24.6
4.40	95.60	30.3
14.5	85.5	37.3
26.5	73.5	41.6
57.6	42.4	51.6

№ 5963

GLYCEROL TRIDECANOATE – BENZENE

[1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
37.0	63.0	-1.5	61.5	38.5	10
40.0	60.0	0	71.5	28.5	15
46.0	54.0	2.5	81.5	18.5	20
51.0	49.0	5.0	90.0	10.0	25

№ 5964

GLYCEROL TRIDODECANOATE – BENZENE

[1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
14.0	86.0	4	61.5	38.5	25
15.0	85.0	5	71.0	29.0	30
27.5	72.5	10	81.0	19.0	35
40.0	60.0	15	91.0	9.0	40
51.5	48.5	20			

№ 5965

GLYCEROL TRITETRADECANOATE – BENZENE

[1240]



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
5.0	5	47.5	30
5.0	10	60.0	35
13.5	15	71.0	40
25.0	20	80.0	45
36.0	25	89.0	50

№ 5966

GLYCEROL TRIHEXADECANOATE — BENZENE

[1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
2.5	97.5	15	39.0	61.0	35
6.7	93.3	20	51.0	49.0	40
13.5	86.5	25	72.5	27.5	50
25.0	75.0	30	90.0	10.0	60

№ 5967

GLYCEROL TRIOCTADECANOATE — BENZENE

[1240]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.7	99.3	5	23.0	77.0	40
1.0	99.0	10	37.0	63.0	45
1.5	98.5	15	51.0	49.0	50
4.2	95.8	25	75.0	25.0	60
7.0	93.0	30	93.0	7.0	70
12.5	87.5	35			

№ 5968

GLYCEROL TRIOCTADECANOATE — BENZENE

[934]



Solubility A, Wt. %	<i>t</i>			Solubility A, Wt. %	<i>t</i>		
	α -form	β' -form	β -form		α -form	β' -form	β -form
4.6	24.1	34.9	42.2	68.9	47.3	57.4	65.9
13.2	29.6	40.4	48.2	84.0	50.7	61.1	69.3
25.9	35.1	45.5	53.7	100.0	54.0	64.5	73.0
47.5	41.6	52.1	60.4				

NOTE: Data computed from the article graph

№ 5969

[156]

BENZENE — APHILINE

CHLOROHYDRATE



Solubility A, Wt. %	<i>t</i>
0.0124	0
0.0126	20
0.4992	80.1

**FATTY ACID BLENDS -
BENZENE**

— — C₆H₆

t = 12

Solubility A, Wt. % Initial fat	Initial fat	Solubility A, Wt. % Initial fat	Initial fat
12.82	pork fat butter margarine	21.45	mutton fat beef fat veal fat
13.71		41.04	
20.68		11.92	

SALTS OF PHOSPHONOUS ACID - BENZENE

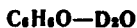
R₂PO₂Me - C₆H₆

A		Solubility A, g/l.		
		t = 25	t = 35	t = 45
Name	Formula			
Lead Dibutylphosphonite	[(C ₄ H ₉) ₂ PO ₂] ₂ Pb	0.32	0.30	1.58
• bis-p - Chlorophenylphosphonite	[(ClC ₆ H ₄) ₂ PO ₂] ₂ Pb	0.94	0.92	0.90
• Di - n - decylphosphonite	[(C ₁₀ H ₂₁) ₂ PO ₂] ₂ Pb	0.34	0.52	5.72
Copper Diphenylphosphonite	[(C ₆ H ₅) ₂ PO ₂] ₂ Cu	0.00	0.00	0.00
• Dibutylphosphonite	[(C ₄ H ₉) ₂ PO ₂] ₂ Cu	0.80	2.48	8.16
• Di - n - decylphosphonite	[(C ₁₀ H ₂₁) ₂ PO ₂] ₂ Cu	1.10	27.58	254.18
Barium Diphenylphosphonite	[(C ₆ H ₅) ₂ PO ₂] ₂ Ba	1.38	1.98	2.40
• Dibutylphosphonite	[(C ₄ H ₉) ₂ PO ₂] ₂ Ba	0.00	0.00	0.00
• bis-p - Chlorophenylphosphonite	[(ClC ₆ H ₄) ₂ PO ₂] ₂ Ba	0.18	0.22	0.24
• Di - n - decylphosphonite	[(C ₁₀ H ₂₁) ₂ PO ₂] ₂ Ba	—	42.08	43.66
Magnesium Diphenylphosphonite	[(C ₆ H ₅) ₂ PO ₂] ₂ Mg	0.00	0.00	0.00
• Dibutylphosphonite	[(C ₄ H ₉) ₂ PO ₂] ₂ Mg	1.68	24.38	Гель
• bis-p - Chlorophenylphosphonite	[(ClC ₆ H ₄) ₂ PO ₂] ₂ Mg	0.06	0.02	.
• Di - n - decylphosphonite	[(C ₁₀ H ₂₁) ₂ PO ₂] ₂ Mg	1.44	2.00	157.7
Calcium Diphenylphosphonite	[(C ₆ H ₅) ₂ PO ₂] ₂ Ca	0.00	0.04	0.04
• Dibutylphosphonite	[(C ₄ H ₉) ₂ PO ₂] ₂ Ca	0.02	0.02	0.02
• bis-p - Chlorophenylphosphonite	[(ClC ₆ H ₄) ₂ PO ₂] ₂ Ca	1.18	1.80	3.34
• Di - n - decylphosphonite	[(C ₁₀ H ₂₁) ₂ PO ₂] ₂ Ca	0.28	0.66	0.80



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	80.1	42.3	57.7	57.0
2.2	97.8	77.25	44.0	56.0	62.0
8.0	92.0	74.25	46.7	53.3	65.5
14.4	85.6	70.0	49.7	50.3	66.5
20.0	80.0	65.5	55.1	44.9	70.0
22.8	77.2	63.25	63.4	36.6	74.5
24.7	75.3	62.5	66.2	33.8	77.0
28.1	71.9	59.25	68.9	31.1	78.75
30.5	69.5	57.75	72.5	27.5	79.5
31.7	68.3	56.5	82.2	17.8	81.0
33.4	66.6	57.0	87.2	12.8	90.5
35.1	64.9	58.25	96.6	3.4	107.0
37.3	62.7	58.0	100.0	0.0	112.5
39.5	60.5	57.75			

PHENOL-HEAVY WATER



Solubility A, Wt.%	t
6.2	20

ANILINE - PHENOL



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
4	96	37.3	60	40	28.5
10	90	31.4	70	30	22.0
20	80	18.4	80	20	10.1
21.2	78.8	14.8	90	10	-6.5
30	70	22.3	92.3	7.7	-11.7
40	60	28.6	96	4.0	-8.9
50	50	30.4	100	0	-6.1

№ 5975

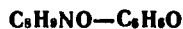
[1401]

BENZOIC ACID – PHENOL

Mutual Solubility, Mol.%		<i>t</i>
A	B	
16.9	83.1	40
28.2	71.8	60
44.2	55.8	80
67.0	33.0	100

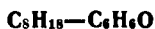
№ 5976

[1401]

ACETANILIDE – PHENOL

Mutual Solubility, Mol.%		<i>t</i>
A	B	
42.7	57.3	40
50.1	49.9	60
60.5	39.5	80
79.5	20.5	100

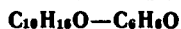
№ 5977

OCTANE – PHENOL

[450]

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	B		A	B	
13.28	86.72	22.55	52.20	47.80	49.50
22.74	77.26	37.85	52.37	47.63	49.35
23.53	76.47	38.15	71.14	28.86	44.70
32.85	67.15	44.70	82.01	17.99	30.65
41.72	58.28	47.75	85.99	14.01	19.65

№ 5978

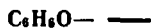
CAMPHOR – PHENOL

[2106]

Mutual Solubility Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
100.0	0.00	174.5	66.64	33.36	-19.3
95.98	4.02	158	62.21	37.79	-18.7
92.55	7.45	140	61.51	38.49	-20.1
88.86	11.14	112	55.80	44.20	-20
82.88	17.12	80	52.52	47.48	-22.6
79.73	20.27	50.7	44.90	55.10	-23.6
76.58	23.42	29.5	40.35	59.65	-28-30.5
73.37	26.63	-0.1	38.57	61.43	-15.7
72.24	27.76	-13.5	34.50	65.50	-3
71.48	28.52	-13.8	30.31	69.69	5
70.12	29.88	-26.4	25.40	74.60	16.1
69.32	30.68	-15.9	20.31	79.69	25
67.76	32.24	-20.1	6.87	93.13	36.1

№ 5979

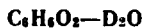
[1772]

PHENOL — PARAFFIN

Solubility A, Wt.%	<i>t</i>
1.66	16
5.00	43

№ 5980

[1117]

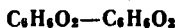
1, 4 - BENZENEDIOL — HEAVY WATER

Solubility A, Wt.%	<i>t</i>
5.76	25

№ 5981

1, 4 - BENZENEDIOL — 1, 3 - BENZENEDIOL

[39]



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0	100	110	40	60	120
10	90	90	50	50	134
20	80	97	60	40	145
25	75	91	70	30	150
27.5	72.5	89.7	80	20	158
30	70	88	90	10	167
32.5	67.5	97	100	0	171
35	65	105			

№ 5982

[1192]

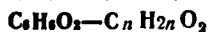
1, 3 - BENZENEDIOL — 1 - BROMONAPHTHALENE

Solubility A, Wt.%	<i>t</i>
45.0	135.2

№ 5983

[175]

**1, 3-BENZENEDIOL -
VARIOUS ACIDS**

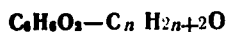

 $t = 15$

B		Solubility A, Wt. %
Name	Formula	
Formic Acid	CH ₂ O ₂	29.2
Acetic Acid	C ₂ H ₄ O ₂	32.5
Propanoic Acid	C ₃ H ₆ O ₂	22.8
Butanoic Acid	C ₄ H ₈ O ₂	14.7
2-Methylpropanoic Acid	C ₄ H ₈ O ₂	9.6
Pentanoic Acid	C ₅ H ₁₀ O ₂	6.5

№ 5984

[175]

**1, 3-BENZENEDIOL -
VARIOUS ALCOHOLS**



B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	69	11.6
Ethanol	C ₂ H ₆ O	59.2	10.4
"	"	61.5	11.6
1-Propanol	C ₃ H ₈ O	51.5	10.4
"	"	51.6	11.6

№ 5985

[1379]

**2-METHYLBENZOIC ACID - 3-METHYL-2-
THIOPHENECARBOXYLIC ACID**



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	m.p	A	B	m.p
0.0	100.0	147.0	53.5	46.5	119.6
9.0	91.0	142.0	65.2	34.8	105.6
18.8	81.2	135.6	81.6	18.4	99.0
27.1	72.9	133.4	91.5	8.5	102.2
35.1	64.9	127.8	100.0	0.0	105.0
48.1	51.9	124.8			

№ 5986

[1379]

**4-METHYLBENZOIC ACID - 5-METHYL-2-
THIOPHENECARBOXYLIC ACID**



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	m.p	A	B	m.p
0.0	100.0	139.0	60.0	40.0	151.8
9.4	90.6	133.2	70.3	29.7	159.0
19.2	80.8	130.4	79.5	20.5	165.4
27.9	72.1	127.4	90.0	10.0	173.4
45.0	55.0	144.4	100.0	0.0	178.0
50.0	50.0	147.0			

№ 5987 NITROANILINE - 1,3 - [478]

DIMETHYLBENZENE



Solubility A, Wt. %			<i>t</i>
ortho	meta	para	
10.39	1.71	0.28	15

№ 5988

[2055]

NITROANILINE - p - CYMENE



Solubility A, Wt. %			<i>t</i>
ortho	meta	para	
5.95	1.35	0.82	30

№ 5989

m - NITROANILINE - VARIOUS SOLVENTS

[462]

*t* = 20

Solvent		Solubility A, g/l
Name	Formula	
Methanol	CH ₄ O	110.6
Ethanol	C ₂ H ₆ O	70.5
1 - Propanol	C ₃ H ₈ O	56.5
2 - Methyl - 1 - propanol	C ₄ H ₁₀ O	26.4
3 - Methyl - 1 - butanol	C ₆ H ₁₂ O	85.1
Ethyl Ether	C ₄ H ₁₀ O	78.9
Benzene	C ₆ H ₆	24.5
Toluene	C ₇ H ₈	17.1
Cumene	C ₉ H ₁₂	11.5
Chloroform	CHCl ₃	30.1
Carbon Tetrachloride	CCl ₄	2.1
Carbon Disulfide	CS ₂	3.3

№ 5990

m - NITROANILINE - VARIOUS SOLVENTS

[519]



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.091	25.0
"	"	0.178	40.1
Benzene	C ₆ H ₆	2.646	25.0
"	"	4.886	40.1
Ethanol	C ₂ H ₆ O	3.878	0.0
"	"	7.213	25.0
Ethanol 95%	"	6.677	25.0
Chloroform	CHCl ₃	1.340	0.0
"	"	3.116	25.0
"	"	5.751	40.1

o-NITROANILINE – VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.121	25
"	"	0.242	40.1
Benzene	C ₆ H ₆	17.22	25
Ethanol	C ₂ H ₅ O	21.80	25
Chloroform	CHCl ₃	10.04	0

p-NITROANILINE – VARIOUS SOLVENTS

t = 20

Solvent		Solubility A, g/l.
Name	Formula	
Methanol	CH ₃ O	95.9
Ethanol	C ₂ H ₅ O	58.4
1-Propanol	C ₃ H ₇ O	43.5
2-Methyl-1-propanol	C ₄ H ₁₀ O	19.1
3-Methyl-1-butanol	C ₅ H ₁₂ O	62.9
Ethyl Ether	C ₄ H ₁₀ O	61.0
Benzene	C ₆ H ₆	19.8
Toluene	C ₇ H ₈	13.1
Cumene	C ₉ H ₁₂	9.0
Chloroform	CHCl ₃	23.1
Carbon Tetrachloride	CCl ₄	1.7
Carbon Disulfide	CS ₂	2.6

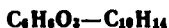
p-NITROANILINE – VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.057	25.0
"	"	0.115	40.1
Benzene	C ₆ H ₆	0.576	25.0
"	"	1.039	40.1
Ethanol 100%	C ₂ H ₅ O	3.271	0.0
"	"	5.703	25.0
"	"	7.607	40.1
Ethanol 95%	"	5.369	25.0
Chloroform	CHCl ₃	0.431	0.0
"	"	0.920	25.0
"	"	1.535	40.1



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
19.2	80.8	20	49.1	50.9	50
22.7	78.3	25	56.5	43.5	55
26.7	73.3	30	64.4	35.6	60
31.3	68.7	35	72.6	27.4	65
36.6	63.4	40	90.0	10.0	75
42.5	57.5	45			

1, 3, 5 - BENZENETRIOL - CYMENE



Solubility A, Wt.%	<i>t</i>
0.12	175

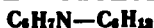
N - 2 - PROPENYL - N' - PHENYLTHIOUREA - o - NITROANILINE



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.0	100.0	71.0	41.99	58.01	70.5
9.90	90.10	65.5	62.28	37.72	83.0
13.20	86.80	63.2	80.50	19.50	91.5
19.94	80.06	59.0	100.0	0.00	99.0
29.46	70.54	60.5			



A		Solubility A, Wt. %	t
Name	Formula		
β-Methylcinnamic Acid (stable)	C ₁₀ H ₁₀ O ₂	2.04	21
β-Methylcinnamic Acid (unstable)	"	0.88	21
β-Methylcinnamic Acid (mixed form)	"	5.94	21
β-Ethylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₂	1.67	20
β-Ethylcinnamic Acid (unstable)	"	0.68	20
β-Ethylcinnamic Acid (mixed form)	"	5.84	20
β-Propylcinnamic Acid (stable)	C ₁₂ H ₁₄ O ₂	1.48	18
β-Propylcinnamic Acid (unstable)	"	4.31	18
β-Propylcinnamic Acid (mixed form) (mixed form)	"	8.92	21
o-Methoxy-β-Methylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₃	1.09	21
o-Methoxy-β-Methylcinnamic Acid (unstable)	"	0.10	21
o-Methoxy-β-Methylcinnamic Acid (mixed form)	"	2.20	21
p-Methyl-β-methylcinnamic Acid (stable)	C ₁₁ H ₁₂ O ₂	0.12	20
p-Methyl-β-methylcinnamic Acid (unstable)	"	0.55	20
p-Methyl-β-methylcinnamic Acid (mixed form)	"	1.77	20



Mutual Solubility Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
11.5	88.5	18.3	64.9	35.1	30.3
19.3	80.7	29.8	68.0	32.0	29.4
26.8	73.2	31.2	75.0	25.0	24.6
40.0	60.0	31.3	76.0	24.0	23.6
57.2	42.8	31.3			



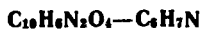
Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
17.53	82.47	14.8	78.68	21.32	28.7
24.79	75.21	25.2	84.20	15.80	24.9
39.82	60.18	32.4	87.65	12.35	21.0
66.27	33.73	32.6	91.51	8.49	11.8



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
9.6	90.4	26.1	35.9	64.1	59.2
14.8	85.2	43.9	41.6	58.4	59.4
16.3	83.7	45.9	48.0	52.0	59.6
20.0	80.0	49.9	62.9	37.1	57.9
21.0	79.0	51.4	73.1	26.9	53.9
27.2	72.8	56.0	80.6	19.4	47.2
31.0	69.0	58.2	88.1	11.9	35.6
34.6	65.4	58.2	93.8	6.2	16.5



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.0	100.0	-6.0	42.0	58.0	70
5.0	95.0	0	48.0	52.0	75
6.0	94.0	10	56.0	44.0	80
8.0	92.0	20	68.0	32.0	83.6
9.0	91.0	25	80.0	20.0	80
10.0	90.0	30	86.0	14.0	75
15.0	85.0	40	90.0	10.0	68
22.0	78.0	50	96.0	4.0	75
30.0	70.0	60	100.0	0.0	80.6

1, 5 - DINITRONAPHTHALENE -
ANILINE

Solubility A, Wt. %	<i>t</i>
1.10	0
1.26	18
15.6	100

1, 8 - DINITRONAPHTHALENE -
ANILINE

Solubility A, Wt. %	<i>t</i>
5.11	0
6.28	18
50.2	100

№ 6004

NAPHTHALENE - ANILINE

[2024]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
9.31	90.69	0.6	34.53	65.47	37.4
13.42	86.58	10.6	52.87	47.13	50.8
14.46	85.54	12.9	69.73	30.27	60.8
20.00	80.00	22.0	77.30	22.70	65.4
26.55	73.45	29.9	91.02	8.98	74.4

№ 6005

ANILINE - DECANE

[1561]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility Wt. %		<i>t</i>
A	B		A	B	
80	20	77	33	67	72
70	30	78	25	75	66
60	40	78	20	80	58
50	50	78	12	88	47
40	60	77			

№ 6006

[1401]

FLUORENE - ANILINE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.4	97.6	0
5.6	94.4	20
11.7	88.3	40
23.2	76.8	60
42.7	57.3	80
71.0	29.0	100

№ 6007

[1738]

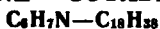
COCAINE - ANILINE

Solubility A, Wt. %	<i>t</i>
43.2	20

№ 6008

ANILINE – OCTADECANE

[1561]

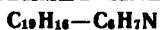


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
80	20	98	33	67	94
70	30	102	25	75	87
60	40	103	20	80	81
50	50	102	12	88	63
40	60	98			

№ 6009

TRIPHENYLMETHANE – ANILINE

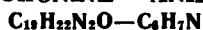
[873]



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.4	94.6	23.0	67.9	32.1	71.3
9.5	90.5	35.3	71.7	28.3	71.6
13.5	86.5	43.0	76.3	23.7	71.2
21.9	78.1	52.1	78.3	21.7	70.6
36.5	63.5	61.4	82.1	17.9	71.6
47.2	52.8	66.0	84.9	15.1	74.3
54.8	45.2	68.7	91.7	8.3	82.1
64.6	35.4	70.1	96.1	3.9	87.3

№ 6010

[1738]

CINCHONINE – ANILINE

Solubility A, Wt. %	<i>t</i>
1.57	20

№ 6011

[1738]

PAPAVERINE – ANILINE

Solubility A, Wt. %	<i>t</i>
22.5	20

№ 6012

[1738]

NARCOTINE – ANILINE

Solubility A, Wt. %	<i>t</i>
20.0	20

№ 6013

[1738]

QUININE – ANILINE

Solubility A, Wt. %	<i>t</i>
12.6	20

№ 6014

[1738]

STRYCHNINE - ANILINE

Solubility A, Wt. %	<i>t</i>
16.7	20

№ 6015

[1738]

BRUCINE - ANILINE

Solubility A, Wt. %	<i>t</i>
12.0	20

№ 6016

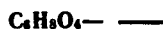
[1772]

ANILINE - VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Cyclopentane	C_5H_{10}	37.5	16.8
Methylcyclopentane	C_6H_{12}	30.0	35.2
Ethylcyclopentane	C_7H_{14}	35.0	39.8
Propylcyclopentane	C_8H_{16}	40.0	45.5
Butylcyclopentane	C_9H_{18}	42.5	51.1
Cyclohexane	C_6H_{12}	40.0	30.8
Methylcyclohexane	C_7H_{14}	40.0	41.0
Hexane	C_6H_{14}	41.0	69.2
3 - Methylpentane	C_6H_{14}	41.5	69.6
4 - Methylpentane	C_6H_{14}	37.5	74.9
Trimethylethylmethane	C_6H_{18}	40.0	80.65

№ 6017

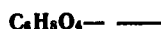
[2029]

**CIS - DIMETHYL MALEATE -
LIGROIN**

Solubility A, Wt. %	<i>t</i>
0.031	-39

№ 6018

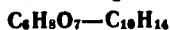
[2029]

**TRANS - DIMETHYL FUMARATE -
LIGROIN**

Solubility A, Wt. %	<i>t</i>
0.018	-39

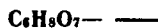
№ 6019

[2055]

CITRIC ACID - p - CYMENE

Solubility A, Wt. %	<i>t</i>
0.034	25

CITRIC ACID – VARIOUS SOLVENTS

 $t = 25$

Solvent		Solubility A, Wt. %	d_4^{25}
Name	Formula		
Pentyl Acetate	C ₇ H ₁₄ O ₂	5.980*	0.8917
Pentanol	C ₅ H ₁₂ O	15.43*	0.8774
Ethyl Acetate	C ₄ H ₈ O ₂	5.276*	0.9175
Ethyl Ether	C ₄ H ₁₀ O	2.174*	0.7228
Chloroform	CHCl ₃	0.007*	1.4850
Pentyl Acetate	C ₇ H ₁₄ O ₂	4.22**	0.8861
Ethyl Ether	C ₄ H ₁₀ O	1.05**	0.7160
Chloroform	CHCl ₃	0**	1.4880
Benzene	C ₆ H ₆	0**	—
Carbon Disulfide	CS ₂	0**	—
Carbon Tetra- chloride	CCl ₄	0**	—
Toluene	C ₇ H ₈	0**	—

№ 6021 **HEXAMETHYLENE-** [1931]
DIAMINE TRIPEROXIDE –
ETHYLENE GLYCOL DIACETATE
 C₆H₁₆N₂O₃—C₆H₁₀O₄

Solubility A, Wt. %	t
0.9	25

№ 6022 [1931]
TETRYL – ETHYLENE
GLYCOL DIACETATE
 C₇H₅N₅O₆—C₆H₁₀O₄

Solubility A, Wt. %	t
12.3	20

№ 6023 [1931]
TRINITRODIMETHYLBENZENE –
ETHYLENE GLYCOL DIACETATE
 C₈H₇N₃O₈—C₆H₁₀O₄

Solubility A, Wt. %	t
0.8	25

№ 6024 [1931]
TRINITRONAPHTHALENE –
ETHYLENE GLYCOL DIACETATE
 C₁₀H₅N₃O₈—C₆H₁₀O₄

Solubility A, Wt. %	t
0.89	25

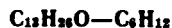
* 1-Hydrate citric acid
 ** Anhydrous citric acid



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
16.5	27.7	41.7	46.1	69.9	63.3
19.6	30.5	46.2	48.3	80.0	70.4
24.8	35.0	53.0	52.3	89.3	79.0
35.0	41.9	59.5	56.3		

**1, 6 - HEXANEDIOL –
CYCLOHEXANE**


Solubility A, Mol. %	<i>t</i>
0.0359	41.1
0.0675	53.1
0.1186	64.1
0.1414	67.3

**2 - TRIDECANONE –
CYCLOHEXANE**


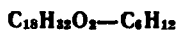
Mutual Solubility Wt. %		<i>t</i>
A	B	
10.2	89.8	–5
47.6	52.4	10
78.7	21.3	20

PHENANTHRENE – CYCLOHEXANE


Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.17	97.83	13.0
3.28	96.72	20.7
3.37	96.63	23.1
4.18	95.82	29.8
6.08	93.92	38.7
9.39	90.61	44.6
14.4	85.6	53.7
17.3	82.7	55.2
40.4	59.6	68.9

№ 6029

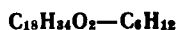
[932]

**9, 12 - OCTADECADIENOIC ACID -
CYCLOHEXANE**


Mutual Solubility Wt. %		<i>t</i>
A	B	
51.8	48.2	-28.3
73.3	26.7	-20
92.4	7.6	-10
Completely miscible		0

№ 6030

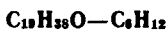
[932]

**9 - OCTADECENOIC ACID -
CYCLOHEXANE**


Mutual Solubility, Wt. %		<i>t</i>
A	B	
38.9	61.1	-12.1
44.4	55.6	-10
70.0	30.0	0
89.7	10.3	10
Completely miscible		20

№ 6031

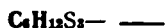
[935]

**2 - NONADECANONE -
CYCLOHEXANE**


Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.8	99.2	5.2
2.2	97.8	10
11.6	88.4	20
33.1	66.9	30
62.5	37.5	40
90.0	10.0	50

№ 6032

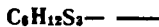
[1905]

2, 4, 6 - TRIMETHYL - (SYM)TRITHIANE (α) - VARIOUS SOLVENTS
*t* = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	13.48
Ethanol	C_2H_6O	3.716
Methanol	CH_4O	3.883
Acetone	C_3H_8O	17.33
Chloroform	$CHCl_3$	36.54
Carbon Disulfide	CS_2	20.32
Benzene	C_6H_6	26.69
Ethyl Acetate	$C_4H_8O_2$	14.91

№ 6033

[1905]

2, 4, 6 - TRIMETHYL - (SYM)TRITHIANE (β) - VARIOUS SOLVENTS $t = 25$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	12.02
Ethanol	C_2H_6O	3.818
Methanol	CH_4O	3.744
Acetone	C_3H_6O	15.48
Chloroform	$CHCl_3$	33.87
Carbon Disulfide	CS_2	17.18
Benzene	C_6H_6	21.25
Ethyl Acetate	$C_4H_8O_2$	13.40

№ 6034

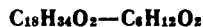
[2037]

**NAPHTHALENE -
CYCLOHEXANOL**

Mutual Solubility, Wt. %		t
A	B	
5.1	94.9	10
11.7	88.3	20
19.4	80.6	30
27.9	72.1	40
35.4	64.6	50

№ 6035

[932]

**9 - OCTADECENOIC ACID -
BUTYL ACETATE**

Mutual Solubility, Wt. %		t
A	B	
2.7	97.3	—40
6.0	94.0	—30
12.9	87.1	—20
32.4	67.6	—10
66.7	33.3	0
88.5	11.5	10
Completely miscible		20

№ 6036

N - 2 - PROPENYL - N' - PHENYLTHIOUREA - PARALDEHYDE [205]

Mutual Solubility, Mol. %		m.p	Mutual Solubility, Mol. %		m.p
A	B		A	B	
4.92	95.08	49.0	48.98	51.02	81.2
9.71	90.29	58.0	59.54	40.46	84.5
19.42	80.58	68.0	70.58	29.42	88.6
27.23	72.77	72.8	80.00	20.00	92.3
40.37	59.63	78.3	100.00	0.00	99.0

№ 6037

[1491]

GLUCOSE - VARIOUS SOLVENTS $t = 23$

Solvent		Solubility A, Wt. %	
Name	Formula	Non-Crystalline Glucose	Crystalline Glucose
Ethanol 99%	C_2H_6O	4.70	0.44
"	"	1.58	0.22
2-Propanol	C_3H_8O	1.07	0.08
Acetone	C_3H_6O	0.184	0.014

№ 6038

[1979]

**HEXAMETHYLENETETRAMINE -
VARIOUS SOLVENTS** $t = 20$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	62.54
Ethyl Ether	$C_4H_{10}O$	0.06
Trichloroethylene	C_2HCl_3	0.11
Dimethylbenzene	C_8H_{10}	0.14
Carbon Disulfide	CS_2	0.17
Benzene	C_6H_6	0.22
Tetrachloroethane	$C_2H_2Cl_4$	0.498
Acetone	C_3H_6O	0.646
Carbon Tetrachloride	CCl_4	0.843
Pentanol	$C_5H_{12}O$	1.807
Ethanol	C_2H_6O	2.809
Ethanol 90%	"	5.285
Methanol	CH_3O	6.760
Chloroform	$CHCl_3$	11.82
Glycerol 86.5%	$C_3H_8O_3$	20.95
Glycerol 98.5%	"	17.29

№ 6039

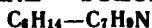
[1275]

NORLEUCINE - VARIOUS SOLVENTS $t = 25$

Solvent		Solubility A, g/l	d_4^{25}
Name	Formula		
Water	H_2O	11.36	0.9991
Formamide	CH_3NO	2.269	1.1309
Methanol	CH_3O	1.120	0.7873
Ethanol	C_2H_6O	0.136	0.7851
1-Butanol	$C_4H_{10}O$	0.044	0.8067
Acetone	C_3H_6O	0.0104	0.7857

№ 6040

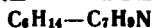
[1772]

HEXANE - TOLUIDINE

Solvent	Solubility A, Wt. %	<i>t</i>
o-Toluidine	64.0	21.1
m-Toluidine	52.3	21.3

№ 6041

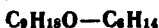
[597]

HEXANE - m-TOLUIDINE

Solubility A, Wt. %	<i>t</i>
55.8	21.3

№ 6042

[935]

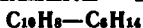
2-NONANONE - HEXANE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
8.7	91.3	-40
22.8	77.2	-30
55.6	44.4	-20
91.7	8.3	-10

№ 6043

NAPHTHALENE - HEXANE

[2024]

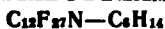


Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
8.95	91.05	8.7	43.21	56.79	49.6
11.35	88.65	14.8	43.33	56.67	49.5
13.55	86.45	19.5	51.36	48.64	53.7
18.43	81.57	27.7	59.69	40.31	57.9
18.79	81.21	28.5	60.60	39.40	58.4
20.57	79.43	30.8	68.64	31.36	62.3
21.97	78.03	32.2	74.23	25.77	64.6
25.65	74.35	36.1	83.63	16.37	69.1
27.50	72.50	38.0	83.96	16.04	69.4
32.74	67.26	42.3	89.09	10.91	72.5
37.44	62.56	45.8			

№ 6044

PERFLUOROTRIBUTYLAMINE - HEXANE

[1667]

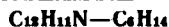


Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
1.81	98.19	25.5	27.0	73.0	60.1
3.69	96.31	40.4	31.6	68.4	59.0
6.88	93.12	54.6	38.1	61.9	57.1
12.9	87.1	59.6	48.0	52.0	51.3
18.2	81.8	60.5	64.9	35.1	34.8
22.8	77.2	60.4	78.7	21.3	14.2

№ 6045

DIPHENYLAMINE - HEXANE

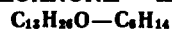
[666]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.5	99.5	-30	6.7	93.3	20
0.8	99.2	-20	13.8	86.2	30
1.4	98.6	-10	47.0	53.0	40
2.6	97.4	0	94.0	6.0	50
3.8	96.2	10			

№ 6046

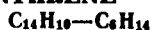
[935]

2 - TRIDECANONE - HEXANE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.2	97.8	-20
6.3	93.7	-10
16.8	83.2	0
42.5	57.5	10
79.5	20.5	20

№ 6047

[908]

PHENANTHRENE - HEXANE

Solubility A, Mol. %	<i>t</i>
4.20	25

№ 6048

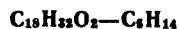
[637]

**2 - UNDECYLBENZOTHAZOLE -
HEXANE**

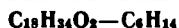
Mutual Solubility, Wt. %		<i>t</i>
A	B	
13.7	86.3	-20
31.0	69.0	-10
54.6	45.4	0
78.9	21.1	10
Completely miscible		20

№ 6049

[932]

**9, 12 - OCTADECADIENOIC ACID -
HEXANE**

Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.9	97.1	-50
12.5	87.5	-40
34.6	65.4	-30
62.9	37.1	-20
90.8	9.2	-10
Completely miscible		0

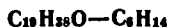


Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.1	99.9	-40	61.5	38.5	0
1.2	98.8	-30	87.7	12.8	10
8.3	91.7	-20	Completely miscible		20
30.7	69.3	-10			



Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.2	98.8	-30	20.0	80.0	40
1.6	98.4	-20	25.8	74.2	50
2.2	97.8	-10	45.7	54.3	60
3.5	96.5	0	62.0	38.0	70
5.6	94.4	10	78.5	21.5	80
8.3	91.7	20	97.0	3.0	90
12.5	87.5	30			

2-NONADECANONE - HEXANE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.4	99.6	10
7.6	92.4	20
24.9	75.1	30
55.9	44.1	40
89.2	10.8	50

2-HEPTADECYLBENZOTHAZOLE -
HEXANE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
< 1	> 99	10
5.2	94.8	20
32.7	67.3	30
Completely miscible		40



Solubility A, Wt. %	<i>t</i>		
	α-form	β ² -form	β-form
5.7	27.8	39.2	47.0
14.9	32.8	43.6	51.4
27.0	37.4	48.2	56.2
43.7	42.0	52.6	60.8
59.2	46.1	56.2	65.0
81.6	50.7	60.8	69.5
100.0	54.0	64.5	73.0

NOTE: Data taken from the article graph

№ 6055

[2031]

PARAFFIN* - HEXANE— C₆H₁₄

Solubility A, Wt. %	<i>t</i>
4.02	0
5.29	5
6.78	10
8.41	15
11.17	20
19.71	25

№ 6056

[1878]

**1, 6-HEXANEDIOL -
HEPTANE**C₆H₁₄O₂—C₇H₁₆

Solubility A, Mol. %	<i>t</i>
0.0476	45.6
0.0501	46.7
0.0664	51.2
0.1152	62.6
0.1522	68.0

№ 6057

[1430]

MANNITOL - DEUTERIUM OXIDEC₆H₁₄O₆—D₂O

Solubility A, Wt. %	<i>t</i>
15.2	19

№ 6058

PERFLUOROMETHYLCYCLOHEXANE - TOLUENE

[907]

C₇F₁₄—C₇H₈

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
5.7	94.3	63.7	45.0	55.0	87.2
12.0	88.0	83.1	56.0	44.0	82.0
19.0	81.0	87.7	68.6	31.4	68.7
26.7	73.3	88.9	83.1	16.9	42.8
35.3	64.7	88.6			

№ 6059

**TETRADIMETHYL - CYCLOTETRASILOXANE -
PERFLUOROMETHYLCYCLOHEXANE**

[1044]

C₈H₂₀Si₄O₄—C₇F₁₄

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
12.0	88.0	35.80	38.2	61.8	43.85
20.5	79.5	42.03	48.4	51.6	43.45
29.5	70.5	43.86	59.8	40.2	40.58
38.0**	62.0	43.86	73.7	26.3	30.55

* m.p. 56°, d_4^{20} 0.775.

** crit.pt.

**PERFLUOROMETHYLCYCLOHEXANE -
VARIOUS SOLVENTS**

C_7F_{14} — —

$t = 27$

Solvent		Solubility A, Wt. %
Name ¹	Formula	
Acetone	C_3H_6O	10.0
Chloroform	$CHCl_3$	6.9
Benzene	C_6H_6	3.0
Ethyl Acetate	$C_4H_8O_2$	15.0

PERFLUOROHEPTANE - HEPTANE

C_7F_{16} — C_7H_{16}

Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
6.2	93.8	24.0	49.6	50.4	49.3
13.5	86.5	42.1	53.1	46.9	48.5
21.3	78.7	48.5	60.0	40.0	45.8
29.3	70.7	49.9	70.9	29.1	36.5
39.1	60.9	50.0	78.6	21.4	27.3

PERFLUOROHEPTANE - OCTANE

C_7F_{16} — C_8H_{18}

Mutual Solubility, Mol. %		t
A	B	
6.6	93.4	33.6
21.3	78.7	63.2
33.1	66.9	67.2
46.1	53.9	67.6
54.9	45.1	65.8
68.2	31.8	60.0
88.8	11.2	27.5

**PERFLUOROHEPTANE - 2, 2, 4 -
TRIMETHYLPENTANE**

C_7F_{16} — C_8H_{18}

Mutual Solubility, Mol. %		t
A	B	
15.5	84.5	16.9
23.2	76.8	22.2
32.3	67.7	23.6
41.6	58.4	23.7
53.3	46.7	22.8
62.3	37.7	19.8
74.5	25.5	10.6

Reference No

№ 6064

[1044]

TETRADIMETHYLCYCLOTETRASILOXANE – PERFLUOROHEPTANE
 $C_8H_{16}Si_4O_4 - C_7F_{16}$

Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
13.6	86.4	59.95	51.3	48.7	69.90
22.9	77.1	67.07	60.4	39.6	68.48
32.6	67.4	69.58	74.3	25.7	60.97
41.6	58.4	69.97	85.2	14.8	44.78
44.0*	56.0	69.97			

№ 6065

[1271]

**PHENANTHRENE – MONOHYDRO-
PERFLUOROHEPTANE**
 $C_{14}H_{10} - C_7HF_{15}$

Solubility A, Mol. %	<i>t</i>
0.160	25

№ 6066

[604]

**2, 4, 6 - TRINITROBENZOIC ACID –
VARIOUS SOLVENTS**
 $C_7H_3N_3O_8 -$

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	2.01	23.5
"	"	4.01	50
Ethyl Acetate	C ₄ H ₈ O ₂	17.39	25
Acetone	C ₃ H ₆ O	18.11	25
Ethanol 96%	C ₂ H ₆ O	21.59	25
Ethanol	"	21.00	25
Methanol	CH ₃ O	33.64	25
Benzene	C ₆ H ₆	0.31	25
Chloroform	CHCl ₃	0.37	25
Ethyl Ether	C ₄ H ₁₀ O	12.33	25
Carbon Disulfide	CS ₂	0.14	25
Carbon Tetrachloride	CCl ₄	0.07	25
Toluene	C ₇ H ₈	0.38	25

* crit.pt.

№ 6067

[1038]

m-CHLOROBENZOIC ACID – p-CHLOROBENZOIC ACID

Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	239.5	62.9	37.1	176.0
9.6	90.4	233.3	77.3	22.7	145.4
23.8	76.2	222.7	85.3	14.7	145.3
35.0	65.0	212.7	90.9	9.1	149.0
45.9	54.1	200.2	100.0	0.0	153.5
49.2	50.8	196.2			

№ 6068

[1038]

o-CHLOROBENZOIC ACID – m-CHLOROBENZOIC ACID

Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	153.5	52.1	47.9	111.3
9.8	90.2	148.2	58.3	41.7	112.6
15.7	84.3	144.3	70.7	29.3	122.2
23.5	76.5	138.7	80.1	19.9	128.5
30.9	69.1	132.6	90.4	9.6	135.1
40.8	59.2	123.8	100	0.0	139.9

№ 6069

[1038]

o-CHLOROBENZOIC ACID – p-CHLOROBENZOIC ACID

Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100	239.5	70.1	29.9	170.1
9.6	90.4	233.5	74.3	25.7	160.3
22.6	77.4	223.6	77.5	22.5	153.0
26.9	73.1	220.9	84.8	15.2	134.9
39.4	60.6	209.4	88.9	11.1	134.3
59.3	40.7	186.9	93.3	6.7	137.0

№ 6070 [1809]
m-CHLOROBENZOIC ACID -
HEPTANE
 $C_7H_5O_2Cl - C_7H_{16}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.92	98.08	72.2
4.48	95.52	89.6
9.98	90.02	105.8
30.60	69.40	128.1
50.06	49.94	134.2
70.05	29.95	140.1
89.82	10.18	147.7

№ 6071 [1809]
o-CHLOROBENZOIC ACID -
HEPTANE
 $C_7H_5O_2Cl - C_7H_{16}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
2.57	97.43	79
4.61	95.39	94.8
10.42	89.58	108.8
12.55	87.45	112.8
36.89	63.11	126.0
68.76	31.24	129.8
88.68	11.32	134.7

№ 6072 [1809]
p-CHLOROBENZOIC ACID -
HEPTANE
 $C_7H_5O_2Cl - C_7H_{16}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.69	98.31	136.1
4.96	95.04	165.3
10.09	89.81	180.0
31.23	68.77	207.2
51.30	48.70	218.3
76.86	23.14	227.6

№ 6073 [362]
m-CHLOROBENZOIC ACID -
VARIOUS SOLVENTS
 $C_7H_5O_2Cl - \text{---}$
t = 14-16

Solvent		Solubility, A, g/l.
Name	Formula	
Ligroin	—	0.84
Carbon Tetrachloride	CCl_4	4.8
Benzene	C_6H_6	6.6
Carbon Disulphide	CS_2	6.2
Ethyl Ether	$C_4H_{10}O$	140

№ 6074 [478]
m-CHLOROBENZOIC ACID -
VARIOUS SOLVENTS
 $C_7H_5O_2Cl - \text{---}$

Solvent		Solubility A, Mol. %	<i>t</i>
Name	Formula		
Chlorobenzene	C_6H_5Cl	1.38	32.2
o-Chlorotoluene	C_7H_7Cl	1.56	32.5
m-Chlorotoluene	"	0.83	19.4
"	"	1.55	32.5

№ 6075

**o-CHLOROBENZOIC ACID -
VARIOUS SOLVENTS**

[362]

$C_7H_5O_2Cl$ —

$t = 14-16$

Solvent		Solubility A, g/l
Name	Formula	
Ligroin	—	0.7
Carbon Tetrachloride	CCl_4	5.8
Benzene	C_6H_6	9.2
Carbon Disulfide	CS_2	5.2
Acetic Acid 75%	$C_2H_4O_2$	62.2
Ethyl Ether	$C_4H_{10}O$	169.6
Acetone	C_3H_6O	284.2
Ethyl Acetate	$C_4H_8O_2$	132.0

№ 6076

**o-CHLOROBENZOIC ACID -
VARIOUS SOLVENTS**

[478]

$C_7H_5O_2Cl$ —

Solvent		Solubility A, g/l	t
Name	Formula		
Chlorobenzene	C_6H_5Cl	0.92	14
"	"	2.09	32.2
o-Chlorotoluene	C_7H_7Cl	1.04	18.4
"	"	1.96	32.0
p-Chlorotoluene	"	1.11	19.4
"	"	1.97	32.2

№ 6077

**p-CHLOROBENZOIC ACID -
VARIOUS SOLVENTS**

[362]

$C_7H_5O_2Cl$ —

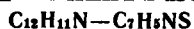
$t = 14-16$

Solvent		Solubility A, g/l
Name	Formula	
Ligroin	—	Следы
Carbon Tetrachloride	CCl_4	0.4
Benzene	C_6H_6	0.17
Carbon Disulfide	CS_2	0.16
Acetic Acid 75%	$C_2H_4O_2$	3.2
Ethyl Ether	$C_4H_{10}O$	17.2
Acetone	C_3H_6O	25.8
Ethyl Acetate	$C_4H_8O_2$	16.4

№ 6078

DIPHENYLAMINE – PHEHYL ISOTHIOCYANATE

[141]



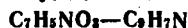
Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	—21.8	45.0	55.0	16.3
3.0	97.0	—24.0	50.0	50.0	20.9
5.0	95.0	—25.2	55.0	45.0	25.8
9.1	90.9	—28.4	60.0	40.0	29.9
12.5	87.5	—23.0	80.0	20.0	43.5
20.0	80.0	—12.0	100.0	0.0	53.8
40.0	60.0	11.4			

№ 6079

[1589]

m-NITROBENZALDEHYDE –

QUINOLINE

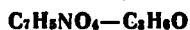


Solubility A, Wt. %	t
1.92	20

№ 6080

p-NITROBENZOIC ACID – ACETONE

[520]

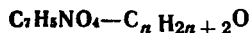


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
1.9	98.1	10	9.6	90.4	100
2.2	97.8	20	11.4	88.6	110
2.7	97.3	30	13.2	86.8	120
3.3	96.7	40	16.3	83.7	130
3.8	96.2	50	19.3	80.7	140
4.7	95.3	60	22.9	77.1	150
5.5	94.5	70	27.0	73.0	160
6.6	93.4	80	31.5	68.5	170
7.9	92.1	90	35.9	64.1	180

№ 6081

[175]

**m - NITROBENZOIC ACID -
VARIOUS ALCOHOLS**

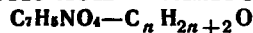


B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	41.9	0
"	"	53.7	19
"	"	57.1	21.5
Ethanol	C ₂ H ₆ O	33.6	0
"	"	42.3	19
"	"	43.9	21.5
1-Propanol	C ₃ H ₈ O	24.1	0
"	"	31.0	19
"	"	32.5	21.5

№ 6082

[175]

o - NITROBENZOIC ACID - VARIOUS ALCOHOLS

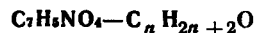


B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	36.2	0
"	"	52.2	22
Ethanol	C ₂ H ₆ O	23.3	0
"	"	42.7	22
1-Propanol	C ₃ H ₈ O	17.7	0
"	"	31.2	22
2-Methyl-1-propanol	C ₄ H ₁₀ O	9.65	0

№ 6083

[175]

**p - NITROBENZOIC ACID -
VARIOUS ALCOHOLS**



B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	3.45	18.5
"	"	3.75	21.0
Ethanol	C ₂ H ₆ O	3.25	18.5
"	"	3.16	19.5
"	"	3.22	21.0
1-Propanol	C ₃ H ₈ O	2.12	18.5
"	"	1.85	19.5
"	"	2.29	21.0



Solvent		Solubility A, g/l.			t
Name	Formula	ortho	meta	para	
Water	H ₂ O	6.25	2.38	0.213	15
"	"	6.82	3.15	0.39	20
"	"	7.38	3.41	0.28	25
"	"	9.22	—	—	30
"	"	11.41	4.77	0.42	35
Methanol	CH ₄ O	427.2	473.4	96.0	10
Ethanol	C ₂ H ₆ O	282.0	331.0	9.0	10
"	"	375.8*	472.6*	197.1*	15
Acetone	C ₃ H ₆ O	415	415	45.4	10
Benzene	C ₆ H ₆	2.94	7.95	0.17	10
Sulfur Dioxide	SO ₂	0.12	1.0	0.07	10
Chloroform	CHCl ₃	4.55	56.78	0.66	10
"	"	1.04**	3.33**	0.088**	15
"	"	1.11**	4.48**	0.114**	25
"	"	1.56**	5.93**	0.156**	35
Ethyl Ether	C ₄ H ₁₀ O	215.8	251.7 _l	22.6	10



Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
0	100	70.2	60	40	60.2
10	90	65.3	70	30	66.3
20	80	59.9	80	20	71.4
30	70	54.0	90	10	75.9
40	60	47.5	100	0	80.9
50	50	53.2			

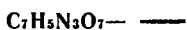


Mutual Solubility, Wt. %		t	Mutual Solubility, Wt. %		t
A	B		A	B	
21.87	78.13	0	56.52	43.48	40
24.24	75.76	5	61.98	38.02	45
27.54	72.46	10	67.53	32.47	50
31.04	68.96	15	73.11	26.89	55
35.48	64.52	20	78.59	21.41	60
40.12	59.88	25	84.00	16.00	65
45.65	54.35	30	89.20	10.80	70
50.98	49.02	35	94.40	5.60	75

* g/l of solution

** Wt. %

**2, 4, 6 - TRINITROMETHOXYBENZENE -
VARIOUS SOLVENTS**



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.020	15
"	"	0.137	50
"	"	0.388	100
Ethyl Acetate	C ₄ H ₈ O ₂	47.21	15
"	"	78.65	50
Acetone	C ₃ H ₆ O	65.98	15
"	"	89.05	50
Ethanol 96%	C ₂ H ₆ O	2.26	15
"	"	15.10	50
Ethanol	"	2.32	15
"	"	17.60	50
Methanol	CH ₄ O	4.98	15
"	"	21.66	50
Benzene	C ₆ H ₆	48.71	15
"	"	85.67	50
Chloroform	CHCl ₃	20.38	15
"	"	76.98	50
Ethyl Ether	C ₄ H ₁₀ O	4.02	15
"	"	7.29	34
Pyridine	C ₅ H ₅ N	28.75	15
"	"	68.87	50
Carbon Disulfide	CS ₂	0.424	15
"	"	1.10	36
Carbon Tetrachloride	CCl ₄	0.508	15
"	"	3.52	50
Toluene	C ₇ H ₈	46.38	15
"	"	80.82	50

**BENZOIC ACID -
o-CHLOROTOLUENE**



Mutual Solubility, Mol. %		<i>t</i>
A	B	
3.45	96.55	0
5.89	94.11	14.2
11.05	88.95	31.8

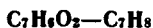
**BENZOIC ACID -
p-CHLOROTOLUENE**



Mutual Solubility, Mol. %		<i>t</i>
A	B	
5.41	94.59	12.5
10.92	89.08	31.8

№ 6090

[1401]

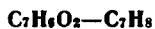
BENZOIC ACID - TOLUENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
3.2	96.8	0
5.8	94.2	20
13.6	86.4	40
24.3	75.7	60
40.0	60.0	80
64.6	35.4	100

№ 6091

BENZOIC ACID - TOLUENE

[488]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
4.44	95.56	0	30.2	69.8	60
5.6	94.4	10	39.7	60.3	70
8.0	92.0	20	50.7	49.3	80
9.6	90.4	25	62.8	37.2	90
11.5	88.5	30	75.1	24.9	100
16.2	83.8	40	86.8	13.2	110
22.3	77.7	50	100.0	0.0	121.7

№ 6092

[478]

BENZOIC ACID - TOLUENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
2.87	97.13	0
4.79	95.21	13.0
7.61	92.39	25.0
9.67	90.33	31.8

№ 6093

[1401]

BENZOIC ACID -**ACETOPHENONE**

Mutual Solubility, Mol. %		<i>t</i>
A	B	
8.3	91.7	0
14.4	85.6	20
23.6	76.4	40
35.9	64.1	60
51.6	48.4	80
71.6	28.4	100

№ 6094

[2055]

BENZOIC ACID –
p - CYMENE
 $C_7H_6O_2 - C_{10}H_{14}$

Solubility A, Wt. %	<i>t</i>
6.1	25

№ 6095

[175]

BENZOIC ACID – VARIOUS SOLVENTS
 $C_7H_6O_2 - C_n H_{2n+2}O$

B		Solubility A, Wt. %	<i>t</i>
Name	Formula		
2 - Propanol	C_3H_8O	32.7	21.2
2 - Propanol	C_3H_8O	25.1	21.2
2 - Methyl - 1 - propanol	$C_4H_{10}O$	15.3	0
3 - Methyl - 1 - butanol	$C_5H_{12}O$	20.2	18
n - Octanol	$C_8H_{18}O$	22.7	21.2
Ethylene Glycol	$C_2H_6O_2$	8.0	18

№ 6096

[1719]

BENZOIC ACID – BENZINE
 $C_7H_6O_2 - \text{—}$

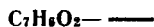
Solubility A, Wt. %	<i>t</i>
1.28	23.5

№ 6097

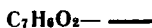
[1987]

BENZOIC ACID – OILS
 $C_7H_6O_2 - \text{—}$
t = 25

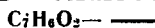
B	Solubility A, Wt. %	B	Solubility A, Wt. %
Olive	4.05	Linseed	4.09
Peanut	4.56	Castor	12.8
Coconut	4.74	Cotton Seed	4.04

BENZOIC ACID – VARIOUS SOLVENTS $t = 25$

Solvent		Solubility A, g/l.
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	187.8
Chloroform	$CHCl_3$	131.8
Carbon Tetrachloride	CCl_4	40.14
Benzene	C_6H_6	109.2

BENZOIC ACID – VARIOUS SOLVENTS

Solvent		Solubility A, Mol. %
Name	Formula	
Water	H_2O	0.057
Hexane	C_6H_{14}	1.40
Carbon Tetrachloride	CCl_4	5.93
Benzene	C_6H_6	8.19
Toluene	C_7H_8	8.55
1, 3 - Dimethylbenzene	C_8H_{10}	8.89
Chlorobenzene	C_6H_5Cl	10.47
Nitrobenzene	$C_6H_5NO_2$	10.81
Chloroform	$CHCl_3$	14.95
Methanol	CH_4O	16.89
Ethanol	C_2H_6O	18.82
1 - Propanol	C_3H_8O	18.10
1 - Butanol	$C_4H_{10}O$	19.68
Acetone	C_3H_6O	21.41

BENZOIC ACID – VARIOUS SOLVENTS

Solvent		Solubility A, g/l.	t	d_4^{25}
Name	Formula			
Acetic Acid 75%	$C_2H_4O_2$	109.2	14–16	—
Benzene	C_6H_6	70.4	14–16	—
Carbon Disulfide	CS_2	42.4	14–16	—
Carbon Tetrachloride	CCl_4	45.0	14–16	—

Solvent		Solubility A, g/l.	t	d ₄ ²⁵
Name	Formula			
Carbon Tetrachloride	CCl ₄	67.0	25	—
"	"	65.8	26	—
Chloroform	CHCl ₃	180.3	25	—
Ethyl Ether	C ₄ H ₁₀ O	398.0	14—16	—
Glycerol	C ₃ H ₈ O ₃	90.7	15—16	—
Ligroin	—	7.2	14—16	—
Petroleum Ether	—	9.8	26	—
Pentachloroethane	C ₂ HCl ₅	109.2	25	—
Tetrachloroethane	C ₂ H ₂ Cl ₄	151.7	25	—
Tetrachloroethylene	C ₂ Cl ₄	80.6	25	—
Trichloroethylene	C ₂ HCl ₃	136.2	25	—
"	"	64.4*	15	—
Dichloroethylene	C ₂ H ₂ Cl ₂	96.7*	15	—
Pentanol	C ₅ H ₁₂ O	214.0	25	0.875
Pentanol Acetate	C ₇ H ₁₄ O ₂	164.4	25	0.912
Ethanol	C ₂ H ₆ O	334.8	25	0.908
Benzene	C ₆ H ₆	97.8	25	0.897
Chloroform	CHCl ₃	191.6	25	1.457
Carbon Tetrachloride	CCl ₄	62.7	25	1.564
Carbon Disulfide	CS ₂	58.9	25	1.282
Cymene	C ₁₀ H ₁₄	71.7	25	0.906
Ethyl Ether	C ₄ H ₁₀ O	46.7*	25	—
Ligroin	—	12.3	25	0.720
Naphtha	—	18.8	25	0.730
Nitrobenzene	C ₆ H ₅ NO ₂	111.8	25	1.225
Toluene	C ₇ H ₈	85.4	25	0.884
Turpentine	—	41.6	25	0.859
Water	H ₂ O	3.66	25	1.0
Dimethylbenzene	C ₈ H ₁₀	77.6	25	0.877

№ 6101

[1809]

**m - HYDROXYBENZOIC
ACID - HEPTANE**
C₇H₆O₃—C₇H₁₆

Mutual Solubility, Wt. %		t
A	B	
0.86	99.14	176
2.0	98.0	197

№ 6102

[1809]

**o - HYDROXYBENZOIC
ACID - HEPTANE**
C₇H₆O₃—C₇H₁₆

Mutual Solubility Wt. %		t
A	B	
2.09	97.91	92.2
5.37	94.63	112.4
20.15	79.85	134.3
41.6	58.4	142.0
81.4	18.6	149.5

* Wt. %

№ 6103 [1809]

**p-HYDROXYBENZOIC ACID –
HEPTANE**
 $C_7H_6O_3 - C_7H_{16}$

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.6	98.4	197.0
1.8	98.2	208.5

№ 6104 [2055]

**o-HYDROXYBENZOIC ACID –
CYMENE**
 $C_7H_6O_3 - C_{10}H_{14}$

Solubility A, Wt. %	<i>t</i>
0.965	25

№ 6105

**N-DIMETHYLAMINOANTIPYRINE –
o-HYDROXYBENZOIC ACID**
 $C_{13}H_{17}N_2O - C_7H_6O_3$

[103]

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.0	100.0	155.0	60.0	40.0	95.0
10.0	90.0	152.0	70.0	30.0	94.0
20.0	80.0	142.0	37.0	63.0	93.5
25.0	75.0	134.0	40.0	60.0	93.0
30.0	70.0	124.0	72.0	28.0	93.0
32.0	68.0	116.0	57.0	43.0	92.0
100.0	0.0	108.0	75.0	25.0	91.0
34.0	66.0	107.0	85.0	15.0	91.0
95.0	5.0	104.0	45.0	55.0	90.0
35.0	65.0	103.0	55.0	45.0	90.0
36.0	64.0	99.0	80.0	20.0	88.0
90.0	10.0	98.0	82.0	18.0	87.0
62.6	37.4	97.0	50.0	50.0	84.0
65.0	35.0	97.0	48.0	52.0	83.0
61.0	39.0	96.5	48.5	51.5	82.0

№ 6106

[174]

o-HYDROXYBENZOIC ACID – VARIOUS ALCOHOLS
 $C_7H_6O_3 - C_nH_{2n} + 2O$

B		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH ₄ O	28.91	—3
"	"	38.46	21
Ethanol	C ₂ H ₆ O	26.29	—3
"	"	33.17	15
"	"	34.87	21
Ethanol 90%	"	29.62	15
1-Propanol	C ₃ H ₈ O	20.71	—3
"	"	27.36	21

№ 6107

o-HYDROXYBENZOIC ACID - BENZINE

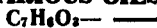
[105]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
5.00	95.00	102.5	46.89	53.11	139.5
8.50	91.50	113.0	70.00	30.00	145.0
18.95	81.05	127.0	84.97	15.03	148.5
31.86	68.14	135.0	100.00	0.00	155.0

№ 6108

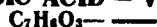
[1987]

**o-HYDROXYBENZOIC ACID -
VARIOUS OILS***t* = 23

B	Solubility A, Wt. %
Olive	2.37
Cotton Seed	2.49
Peanut	2.74—2.33
Cacao	3.08
Linseed	3.31
Castor	12.9

№ 6109

[367, 2015]

o-HYDROXYBENZOIC ACID - VARIOUS SOLVENTS

Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Methoxymethane	C_2H_6O	33.55*	15
		234	17
Acetone	C_3H_6O	313	23

№ 6110

[895]

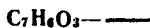
o-HYDROXYBENZOIC ACID - VARIOUS SOLVENTS*t* = 25

Solvent		Solubility A, g/l.
Name	Formula	
Chloroform	$CHCl_3$	21.68
Carbon Tetrachloride	CCl_4	4.143
Trichloroethylene	C_2HCl_3	15.19
Tetrachloroethane	$C_2H_2Cl_4$	20.85
Pentachloroethane	C_2HCl_5	10.64
Tetrachloroethylene	C_2Cl_4	11.05

* Wt. %

№ 6111

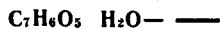
[596]

o-HYDROXYBENZOIC ACID – VARIOUS SOLVENTS $t = 28$

Solvent		Solubility A, Mol. %
Name	Formula	
Water	H_2O	0.03
Hexane	C_7H_{16}	0.11
Carbon Tetrachloride	CCl_4	0.38
Benzene	C_6H_6	0.54
Toluene	C_7H_8	0.61
1, 3 - Dimethylbenzene	C_8H_{10}	0.66
Chlorobenzene	C_6H_5Cl	0.79
Nitrobenzene	$C_6H_5NO_2$	2.51
Chloroform	$CHCl_3$	2.68
Methanol	CH_4O	12.52
Ethanol	C_2H_6O	14.79
1 - Propanol	C_3H_8O	14.38
1 - Butanol	$C_4H_{10}O$	15.68
Acetone	C_3H_6O	19.06

№ 6112

[1772]

**2, 3, 4 - TRIHYDROXYBENZOIC ACID –
VARIOUS SOLVENTS** $t = 25$

Solvent		Solubility A, Wt. %	d_4^{25}
Name	Formula		
Acetone	C_3H_6O	25.99	0.941
3 - Methyl - 1 - butanol	$C_7H_{12}O$	5.39	0.834
Pentanol Acetate	$C_7H_{14}O_2$	2.72	0.878
Benzene	C_6H_6	0.022	0.875
Carbon Disulfide	CS_2	0.042	1.262
Ethyl Ether	$C_4H_{10}O$	1.37	0.718
Ethyl Acetate	$C_4H_8O_2$	3.61	0.911

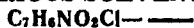
№ 6113

[1814]

**ANILINIUM CHLORIDE –
ANILINE**

Solubility A, Wt. %	t
8.89	25

№ 6114 [1260]

m-NITROBENZYLCHLORIDE —**VARIOUS SOLVENTS**

$t = 30$

Solvent		Solubility A, Wt. %
Name	Formula	
Acetone	C_3H_6O	86.56
Ethyl Acetate	$C_4H_8O_2$	79.76
Nitrobenzene	$C_6H_5NO_2$	76.52
Ethyl Benzoate	$C_9H_{10}O_2$	72.68
Ethanol	C_2H_6O	23.31

№ 6115 [1260]

o-NITROBENZYLCHLORIDE —**VARIOUS SOLVENTS**

$t = 30$

Solvent		Solubility A, Wt. %
Name	Formula	
Acetone	C_3H_6O	81.24
Benzene	C_6H_6	75.24
Ethyl Acetate	$C_4H_8O_2$	71.99
Nitrobenzene	$C_6H_5NO_2$	68.45
Ethyl Benzoate	$C_9H_{10}O_2$	63.14
Ethanol	C_2H_6O	20.82

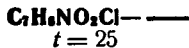
№ 6116 [1260]

p-NITROBENZYLCHLORIDE —**VARIOUS SOLVENTS**

$t = 30$

Solvent		Solubility A, Wt. %
Name	Formula	
Acetone	C_3H_6O	55.91
Benzene	C_6H_6	42.60
Ethyl Acetate	$C_4H_8O_2$	41.07
Nitrobenzene	$C_6H_5NO_2$	40.55
Ethyl Benzoate	$C_9H_{10}O_2$	33.86
Ethanol	C_2H_6O	7.58

NITROBENZYLCHLORIDE —
VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	8.15
Ethanol	C ₂ H ₆ O	6.63
1-Propanol	C ₃ H ₈ O	5.39
1-Pentanol	C ₅ H ₁₂ O	4.65
1-Butanol	C ₄ H ₁₀ O	17.7
Acetic Acid	C ₂ H ₄ O ₂	15.3
Acetone	C ₃ H ₆ O	51.7
Acetophenone	C ₈ H ₈ O	38.7
Paraldehyde	C ₆ H ₁₂ O ₃	19.9
Ethyl Ether	C ₄ H ₁₀ O	18.8
Acetonitrile	C ₂ H ₃ N	49.1
Nitromethane	CH ₃ NO ₂	40.8
o-Nitrotoluene	C ₇ H ₇ NO ₂	33.8
Nitrobenzene	C ₆ H ₅ NO ₂	36.4
Ethyl Acetate	C ₄ H ₈ O ₂	36.4
Ethyl Benzoate	C ₉ H ₁₀ O ₂	30.2
Ethyl Nitrite	C ₂ H ₅ NO ₂	33.9
1-Bromo-3-methylbutane	C ₆ H ₁₁ Br	16.4
Bromobenzene	C ₆ H ₅ Br	24.2
Chloroform	CHCl ₃	32.3
Carbon Tetrachloride	CCl ₄	5.69
Benzyl Bromide	C ₇ H ₇ Br	31.2
1-Bromonaphthaline	C ₁₀ H ₇ Br	23.4
Hexane	C ₆ H ₁₄	1.28
2-Methylbutane	C ₅ H ₁₂	0.49
Benzene	C ₆ H ₆	37.4

2, 4-DINITROTOLUENE — VARIOUS SOLVENTS



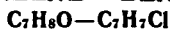
Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.027	22
"	"	0.037	50
"	"	0.253	100
Ethyl Acetate	C ₄ H ₈ O ₂	36.68	15
Acetone	C ₃ H ₆ O	45.03	15
Methanol	CH ₄ O	4.77	15
Ethanol 96%	C ₂ H ₆ O	1.88	15
Ethanol	"	2.95	15
Benzene	C ₆ H ₆	37.75	15
Chloroform	CHCl ₃	39.42	15
Ethyl Ether	C ₄ H ₁₀ O	8.61	15
Pyridine	C ₅ H ₅ N	43.44	15
Carbon Disulfide	CS ₂	2.26	15
Carbon Tetrachloride	CCl ₄	2.37	15
Toluene	C ₇ H ₈	31.26	15

2, 4 - DINITROMETHOXYBENZENE — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.0155	15
"	"	0.0136	50
"	"	0.4780	100
Ethyl Acetate	C ₄ H ₈ O ₂	20.04	15
"	"	44.01	50
Acetone	C ₃ H ₆ O	46.14	15
"	"	68.65	50
Ethanol 96%	C ₂ H ₆ O	1.85	15
"	"	6.06	50
Ethanol	"	2.91	15
"	"	6.70	50
Benzene	C ₆ H ₆	23.24	15
"	"	56.22	50
Chloroform	CHCl ₃	25.37	15
"	"	50.73	50
Ethyl Ether	C ₄ H ₁₀ O	3.68	15
"	"	6.35	33
Pyridine	C ₅ H ₅ N	42.37	15
"	"	66.55	50
Carbon Disulfide	CS ₂	0.355	15
"	"	0.881	37
Carbon Tetrachloride	CCl ₄	0.355	15
"	"	1.18	50
Toluene	C ₇ H ₈	14.26	15
"	"	44.31	50

METHOXYBENZENE — BENZYL CHLORIDE



Mutual Solubility Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0	100	—41.1	62.1	37.9	—60
13	87	—50	75.3	24.7	—50
28	72	—60	93.3	6.7	—40
16.1	53.9	—72.8	100	0.	—37.2

№ 6121 [478]
3-METHYLBENZOIC ACID -
o-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.95	96.05	0
6.88	93.12	14.2
13.61	86.39	31.9

№ 6122 [478]
2-METHYLBENZOIC ACID -
o-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
3.16	96.84	0
6.24	93.76	14.2
13.40	86.60	31.9

№ 6123 [478]
4-METHYLBENZOIC ACID -
o-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Solubility A, Mol.%	<i>t</i>
1.70	31.9

№ 6124 [478]
3-METHYLBENZOIC ACID -
p-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
7.05	92.95	14.1
13.72	86.28	31.8

№ 6125 [478]
2-METHYLBENZOIC ACID -
p-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
6.15	93.85	14.1
13.1	86.9	31.8

№ 6126 [478]
4-METHYLBENZOIC ACID -
p-CHLOROTOLUENE
 $C_8H_7O_2-Cl$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
0.81	99.19	14.1
1.74	98.26	31.8

№ 6127 [1569]
BENZAMIDE - QUINOLINE
 $C_7H_7NO-C_8H_7N$

Solubility A, Wt.%	<i>t</i>
5.90	20

№ 6128 [1830]
p-NITROTOLUENE -
PERFLUOROBUTOXYBUTANE
 $C_7H_7NO_2-C_8F_{18}O$

Solubility A, Mol.%	<i>t</i>
0.268	25
0.399	35

№ 6129 [1830]
p-NITROTOLUENE —
PERFLUOROTRIPROPYLAMINE
 $C_7H_7NO_2 - C_9F_{21}N$

Solubility A, Mol. %	<i>t</i>
0.323	25
0.517	35

№ 6130 [2055]
o-AMINOBENZOIC ACID —
CYMENE
 $C_7H_7NO_2 - C_{10}H_{14}$

Solubility A, Wt. %	<i>t</i>
0.741	25

№ 6131 [521]
m-AMINOBENZOIC ACID —
VARIOUS SOLVENTS
 $C_7H_7NO_2 - \text{—}$

Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Ethanol 95%	C_2H_6O	29.2	12.5
Methanol	CH_4O	40.5	10.5
Acetone	C_3H_6O	62.2	11.3
Iodomethane	CH_3I	0.4	10.0
Iodoethane	C_2H_5I	0.2	0.0
Chloroform	$CHCl_3$	0.7	12.0
Tribromomethane	$CHBr_3$	Следы	8.0

№ 6132 [600]
p-NITROTOLUENE — VARIOUS SOLVENTS
 $C_7H_7NO_2 - \text{—}$

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H_2O	0.004	14.5
"	"	0.008	50.0
"	"	0.012	100.0
Ethyl Acetate	$C_4H_8O_2$	47.68	15
Acetone	C_3H_6O	62.75	15
Methanol	CH_4O	12.05	15
Ethanol 96%	C_2H_6O	7.90	15
Ethanol	"	14.27	15
Benzene	C_6H_6	56.07	15
Ethyl Ether	$C_4H_{10}O$	44.7	15
Chloroform	$CHCl_3$	51.22	15
Pyridine	C_5H_5N	47.44	15
Carbon Disulfide,	CS_2	42.05	15
Carbon Tetrachloride	CCl_4	29.89	15
Toluene	C_7H_8	51.21	15

№ 6133

3-NITRO-6-METHYLBENZOIC ACID – TOLUENE

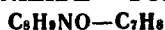
[769]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.30	99.70	0	7.94	92.06	50
0.64	99.36	10	14.6	85.4	60
1.18	98.82	20	27.4	72.6	70
2.42	97.58	30	39.8	60.2	80
4.37	95.63	40			

№ 6134

[1401]

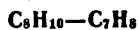
ACETANILIDE – TOLUENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
0.15	99.85	0
0.37	99.63	20
1.1	98.9	40
5.6	94.4	60
33.8	66.2	80
70.8	29.2	100

№ 6135

1,3-DIMETHYLBENZENE – TOLUENE

[83]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
4.94	95.06	−96.8	45.34	54.66	−79.0
10.31	89.69	−99.0	50.09	49.91	−75.0
15.57	84.43	−101.0	55.03	44.97	−71.8
20.42	79.58	−103.5	58.89	41.11	−69.0
22.64	77.36	−103.8	70.01	29.99	−62.8
25.00	75.00	−99.0	79.85	20.15	−57.5
30.22	69.78	−92.5	85.00	15.00	−55.0
34.89	65.11	−87.6	90.02	9.98	−52.5
40.25	59.75	−83.5			

№ 6136

1, 2 - DIMETHYLBENZENE - TOLUENE

[84]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.0	100.0	-95.0	25.8	74.2	-71.0
5.0	95.0	-96.0	37.5	62.5	-61.0
7.0	93.0	-96.5	50.7	49.3	-51.5
8.0	92.0	-97.0	62.4	37.6	-44.5
9.0	91.0	-97.5	76.6	23.4	-37.0
14.0	86.0	-87.0	82.8	17.2	-33.5
18.5	81.5	-80.0	100.0	0.0	-25.5

№ 6137

1, 4 - DIMETHYLBENZENE - TOLUENE

[84]

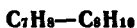


Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.0	100.0	-95.0	33.0	67.0	-30.0
3.0	97.0	-96.0	42.4	57.6	-21.0
5.0	95.0	-84.0	56.2	43.8	-10.5
8.2	91.8	-70.0	70.7	29.3	-2.0
14.0	86.0	-54.0	85.0	15.0	6.0
18.5	81.5	-46.0	100.0	0.0	13.3
23.2	76.8	-41.0			

№ 6138

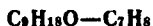
TOLUENE - ETHYLBENZENE

[84]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.0	100.0	-94.4	55.7	44.3	-114.0
9.15	90.85	-97.0	60.5	39.5	-110.5
20.6	79.4	-101.0	65.2	34.8	-110.0
30.4	69.6	-106.0	71.0	29.0	-107.0
40.8	59.2	-111.0	80.4	19.6	-102.5
45.1	51.9	-113.0	90.2	9.8	-98.5
51.68	48.32	-115.0	100.0	0.0	-95.0
53.5	46.5	-116.0			

№ 6139 **2-NONANONE – TOLUENE** [935]



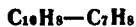
Mutual Solubility, Wt. %		<i>t</i>
A	B	
28.3	71.7	-40
44.1	55.9	-30
66.7	33.3	-20
92.6	7.4	-10

№ 6140 **NAPHTHALENE – TOLUENE** [1605, 2024]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
13.04	86.96	-15	50.49	49.51	40
20.00	80.00	0	56.33	43.67	45
25.37	74.63	10	61.97	38.03	50
32.43	67.57	20	67.74	32.26	55
36.71	63.29	25	72.22	27.78	60
42.86	57.14	30	79.55	20.45	67.4
45.35	54.65	35			

№ 6141 **NAPHTHALENE – TOLUENE** [1605]



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
13.0	-15.0	28.6	15.2	39.4	28.6
20.0	0.0	31.0	19.2	42.8	32.4
23.1	6.9	33.3	21.5	45.9	36.4
25.9	11.5	35.5	24.3	48.8	40.0

№ 6142 **NAPHTHALENE – TOLUENE** [1724]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
9.21	90.79	-26.0	24.02	75.98	9.2
11.71	88.29	-19.0	28.59	71.41	15.5
15.00	85.00	-9.0	36.10	63.90	24.0
19.06	80.94	0	43.53	56.47	33.0
21.27	78.73	5.2	51.09	48.91	41.0

№ 6143

NAPHTHALENE - TOLUENE

[82]



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
1.61	-95.5	10.12	-26.6	45.22	34.3
3.00	-96.0	15.10	-11.3	49.50	40.2
3.51	-85.0	20.30	-0.2	55.10	44.5
4.00	-72.5	25.06	8.0	59.80	48.2
5.10	-59.0	30.12	15.9	70.00	58.0
5.97	-55.5	35.13	23.0	80.14	65.0
7.05	-46.1	40.07	29.0	90.96	73.2

№ 6144

CAMPBOR - TOLUENE

[203]



Mutual Solubility, Wt. %		<i>t</i>
A	B	
40	60	-24.8
42	58	-23.3
45	55	-22.2
50	50	-24.9
55	45	-25.9
65	35	29.0
70	30	37.0

№ 6145

CARBAZOLE - TOLUENE

[496]



Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.42	99.58	15.5
0.77	99.23	30
1.57	98.43	50
2.82	97.18	80
4.56	95.44	100

№ 6146

[1772]

CARBAZOLE - TOLUENE



Solubility A, Wt. %	<i>t</i>
0.55	16.5
5.18	<i>t</i> _{кнп.}

№ 6147

ACENAPHTHENE - TOLUENE

[1862]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
7.9	92.1	0	28.0	72.0	40
10.7	89.3	10	35.7	64.3	50
14.5	85.5	20	43.5	56.5	60
20.5	79.5	30	52.5	47.5	70

№ 6148

[1401]

FLUORENE – TOLUENE

Mutual Solubility, Mol. %		<i>t</i>
A	B	
5.4	94.6	0
10.6	89.4	20
19.1	80.9	40
32.4	67.6	60
51.1	48.9	80
76.5	23.5	100

№ 6149

[935]

2-TRIDECANONE – TOLUENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
12.5	87.5	-20
22.5	77.5	-10
35.3	64.7	0
56.3	43.7	10
81.5	18.5	20

№ 6150

[1772]

ANTHRAQUINONE – TOLUENE

Solubility A, Wt. %	<i>t</i>
0.19	15
5.27	100

№ 6151

[496]

ANTHRACENE – TOLUENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.53	99.47	15.5
1.86	98.14	30
3.01	96.99	50
7.30	92.70	80
10.87	89.13	100

№ 6152

PHENANTHRENE – TOLUENE

[1862]



Mutual Solubility, Wt. %				Mutual Solubility, Wt. %			
A	B	<i>t</i>	d_4^t	A	B	<i>t</i>	d_4^t
20.64	79.36	0	0.925	58.33	41.67	40	0.955
23.08	76.92	10	0.929	63.23	36.77	50	0.971
31.03	68.97	20	0.934	73.68	26.32	60	0.989
35.49	64.51	25	0.939	82.76	17.24	70	1.007
41.18	58.82	30	0.943	89.47	10.53	78	1.020

№ 6153

[496]

PHENANTHRENE - TOLUENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
12.13	87.87	15.5
22.54	77.46	30

№ 6154

[1772]

PYRENE - TOLUENE

Solubility A, Wt. %	<i>t</i>
14.19	18

№ 6155

[1772]

CHRYSENE - TOLUENE

Solubility A, Wt. %	<i>t</i>
0.24	18
5.11	100

№ 6156

[935]

2-NONADECANONE - TOLUENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
4.2	95.8	0
7.8	92.2	10
16.9	83.1	20
34.6	65.4	30
61.8	38.2	40
89.7	10.3	50

№ 6157

[2005]

THEOBROMINE - VARIOUS SOLVENTS

Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	0.6	15.5
"	"	7.0	100
Ethanol 90%	C ₂ H ₅ O	3.9	78.2
Ethanol	"	1.0	78.4
Tetrachloroethane	C ₂ H ₂ Cl ₄	0.9	15.5
"	"	8.7	145.9
Alliline	C ₆ H ₇ N	6.5	15.5
"	"	80.0	184.4
Benzene	C ₆ H ₆	0.05	15.5
"	"	0.1	80.1

Solvent		Solubility A, g/l.	t
Name	Formula		
Carbon Tetrachloride	CCl ₄	0.2	15.5
"	"	0.4	76.7
Chloroform	CHCl ₃	0.6	15.5
"	"	0.7	61.3
Ethyl Ether	C ₄ H ₁₀ O	0.03	15.5
"	"	0.03	117.5
Trichloroethylene	C ₂ HCl ₃	0.2	15.5
"	"	0.3	86.7

№ 6158

[1978]

**o-METHOXYPHENOL -
VARIOUS SOLVENTS**



t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	1.85
Glycerol	C ₃ H ₈ O ₃	50.00

№ 6159

NAPHTHALENE - ETHYL FUROATE

[1902]

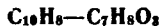


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
24.6	75.4	20	53.1	46.9	50
28.1	71.9	25	59.7	40.3	55
32.1	67.9	30	66.8	33.2	60
36.5	63.5	35	74.7	25.3	65
41.5	58.5	40	90.8	9.2	75
47.1	52.9	45			

№ 6160

NAPHTHALENE - FURFURAL ACETATE

[1902]

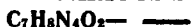


Mutual Solubility, Mol. %		t	Mutual Solubility, Mol. %		t
A	B		A	B	
19.9	80.1	20	49.1	50.9	50
23.3	76.7	25	56.5	43.5	55
27.2	72.8	30	64.4	35.6	60
31.6	68.4	35	72.6	27.4	65
36.7	63.3	40	90.0	10.0	75
42.5	57.5	45			

№ 6161

THEOBROMINE – VARIOUS SOLVENTS

[1772]



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.0305	18
"	"	0.059	15–20
Dichloroethylene	C ₂ H ₂ Cl ₂	0.005	15
Trichloroethylene	C ₂ HCl ₃	0.008	15
Carbon Tetrachloride	CCl ₄	0.021	76.7
Ethyl Ether	C ₄ H ₁₀ O	0.032	117.5

№ 6162

[1772]

METHYLCYCLOHEXANE –

o-TOLUIDINE



Solubility A, Wt. %	t
45.5	–5.6

№ 6163

[1772]

m-TOLUIDINE – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Methylcyclohexane	C ₇ H ₁₄	38.2	–8.3
Hexane	C ₆ H ₁₄	47.7	21.3

№ 6164

[1772]

o-TOLUIDINE – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Methylcyclopentane	C ₆ H ₁₂	27.5	–10.9
Ethylcyclopentane	C ₇ H ₁₄	40.0	–8.3
Methylcyclohexane	"	44.0	–6.6
Hexane	C ₆ H ₁₄	36.0	21.1
4-Methylpentane	"	42.5	25.5

№ 6165

p-TOLUIDINE – VARIOUS SOLVENTS

[1772]



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
3-Methylpentane	C_6H_{14}	30.0	32.4
4-Methylpentane	"	20.0	36.0

№ 6166

METHYLANILINE – VARIOUS SOLVENTS

[1772]



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethylcyclopentane	C_7H_{14}	24.0	–49.4
Propylcyclopentane	C_8H_{16}	22.5	–43.0
Methylcyclopentane	C_6H_{12}	22.5	–47.0
Hexane	C_6H_{14}	27.5	–18.6
3-Methylpentane	"	26.0	–17.25
4-Methylpentane	"	27.0	–14.0
Trimethylethylmethane	"	27.5	–7.65

№ 6167

**UREIDODIGLYCYLCINE –
VARIOUS SOLVENTS**

[1275]

*t* = 25

Solvent		Solubility A, g/l.	d_4^{25}
Name	Formula		
Water	H_2O	10.35	1.0011
Ethanol	C_2H_6O	0.018	0.7851

№ 6168

PERFLUOROTRIBUTYLAMINE – METHYLCYCLOHEXANE

[1667]



Mutual Solubility, Mol. %			Mutual Solubility, Mol. %		
A	B	<i>t</i>	A	B	<i>t</i>
0.357	99.643	19.2	26.5	73.5	96.7
0.714	99.286	36.0	31.0	69.0	95.7
2.14	97.86	66.3	37.5	62.5	92.9
3.48	96.52	79.4	47.4	52.6	85.5
6.72	93.28	92.6	64.3	35.7	63.4
12.6	87.4	97.5	78.3	21.7	37.7
21.6	78.4	98.3	87.8	12.2	8.9
22.4	77.6	97.6			

№ 6169

1-HEPTANOL – HEPTALDEHYDE

[1269]



Mutual Solubility, Mol. %		m. p.	Mutual Solubility, Mol. %		m. p.
A	B		A	B	
0.0	100.0	-43.71	48.9	51.1	2.25
3.7	96.3	-46.11	59.4	40.6	0.47
7.4	92.6	-50.44	66.2	33.8	-4.16
14.3	85.7	-48.15	71.5	28.5	-10.31
18.7	81.3	-34.52	77.7	22.3	-26.04
23.8	76.2	-19.69	79.4	20.6	-32.97
29.6	70.4	-7.85	82.9	17.1	-44.92
35.3	64.7	-1.98	84.9	15.1	-49.06
40.1	59.9	0.33	87.7	12.3	-45.27
45.6	54.4	1.57	100.0	0.0	-34.03

№ 6170 NAPHTHALENE – METHYLCYCLOHEXANOL [2037]



Mutual Solubility, wt. %		<i>t</i>
A	B	
3.9	96.1	10
8.8	91.2	20
15.3	84.7	30
25.4	74.6	40
41.2	58.8	45

№ 6171

2-UREIDOHEXANOIC ACID* –
VARIOUS SOLVENTS

[1275]

 $t = 25$

Solvent		Solubility A, g/l.	d_4^{25}
Name	Formula		
Water	H ₂ O	1.2	0.99727
Formamide	CH ₃ NO	28.71	1.13141
Methanol	CH ₃ O	19.54	0.79390
Ethanol (80%)	C ₂ H ₆ O	15.09	0.85947
Ethanol (90%)	"	13.97	0.82920
Ethanol	"	8.30	0.78885
1-Butanol	C ₄ H ₁₀ O	3.11	0.80739
Acetone	C ₃ H ₆ O	0.81	0.78588

* m.p. 169-170°

**2-UREIDOHEXANOIC ACID* --
VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, g/l.	d_4^{25}
Name	Formula		
Water	H ₂ O	1.20	0.99725
Ethanol 80%	C ₂ H ₆ O	5.60	0.85690
Ethanol 90%	"	3.97	0.82619
Ethanol	"	1.315	0.78639
1-Butanol	C ₄ H ₁₀ O	0.484	0.80643

№ 6173

[1740]

UREIDE OF GLUCOSE -- VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	0.04
Ethanol 85.6%	"	0.725
Methanol	CH ₄ O	0.22

№ 6174

[1809]

**2-HYDROXY-3-METHYLBENZOIC
ACID -- HEPTANE**

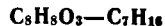


Mutual Solubility, wt. %		t
A	B	
1.89	98.11	81.0
4.86	95.14	101.0
9.95	90.05	119.0
24.77	75.23	132.9
47.63	52.37	140.9
52.03	47.97	141.9
70.04	29.96	146.6
88.95	11.05	154.3

№ 6175

[1809]

**2-HYDROXY-4-METHYLBENZOIC
ACID -- HEPTANE**



Mutual Solubility, wt. %		t
A	B	
2.22	97.78	100.6
4.51	95.49	116.7
10.00	90.00	135.6
20.15	79.85	147.1
36.28	63.72	156.6
61.03	38.97	162.2
79.29	20.71	166.7

* m.p. 169-170°

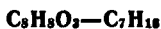
№ 6176 2-HYDROXY-5-METHYLBENZOIC ACID - HEPTANE [1809]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
1.84	98.16	79	50.00	50.00	135.5
4.59	95.41	97.1	69.90	30.10	138.7
10.42	89.58	116.2	89.9	10.10	145.9
30.38	69.62	131.1			

№ 6177 [1809]

3-HYDROXY-4-METHYLBENZOIC ACID - HEPTANE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
0.94	99.06	180.0

№ 6178 [1809]

4-HYDROXY-3-METHYLBENZOIC ACID - HEPTANE



Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.02	98.98	135.0
1.02	98.98	157.3
1.40	98.60	156.6
1.40	98.60	163.8

№ 6179 [1836]

HEPTANE - β, β' -DIPROPANENITRILE SULFIDE



Solubility A, Wt. %	<i>t</i>	Solubility A, Wt. %	<i>t</i>
0.43	25	1.26	85
0.55	35	1.53	95
0.63	45	1.71	105
0.73	55	1.89	115
0.83	65	2.07	125
0.99	75	2.26	135

Note. Solubility of B in A at $t = 126^\circ$ is less than 0.2%.



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
14.0	86.0	26.5	72.6	27.4	57.5
21.6	78.4	35.2	80.3	19.7	59.5
27.35	72.65	39.9	80.6	19.4	60.5
33.5	66.5	43.1	83.6	16.4	61.6
40.9	59.1	46.7	85.7	14.3	62.5
46.8	53.2	49.0	89.2	10.8	64.0
47.5	52.5	49.1	93.4	6.6	66.0
66.5	33.5	55.3	97.2	2.8	68.1

 α -PHENYLGLYOXAL PHENYL-HYDRAZONE — HEPTANE

Mutual Solubility, Wt.%		<i>t</i>
A	B	
4.63	95.37	58.2
10.1	89.9	75.8
17.0	83.0	84.7
35.4	64.6	94.0
55.9	44.1	96.0

 β -PHENYLGLYOXAL PHENYL-HYDRAZONE — HEPTANE

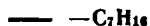
Mutual Solubility, Wt.%		<i>t</i>
A	B	
1.82	98.18	71.72
4.63	95.37	80.81
10.1	89.9	93.5
17.0	83.0	103.2
35.4	64.6	111.0
55.9	44.1	113.0

DOTRIACONTANE — HEPTANE



Mutual Solubility, Wt.%		<i>t</i>
A	B	
3.95	96.05	28.4
4.74	95.26	29.8
7.99	92.01	34.2
9.28	90.72	35.0
17.2	82.8	39.0
26.5	73.5	43.0
30.6	69.4	44.6

PARAFFIN* — HEPTANE



Solubility A, Wt.%	<i>t</i>
1.96	0
3.09	5
4.93	10
6.89	15
9.50	20
17.36	25

* m.p. 56°, d_4^{20} 0.775.

№ 6185 2, 2 - BIS(ETHYLSULFONYL)PROPANE – VARIOUS SOLVENTS



[687]

Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.236	18
"	"	0.448	37
"	"	11.11	100
2% water solution of NaCl	H ₂ O + NaCl	0.231	18
Ethanol 90%	C ₂ H ₆ O	1.642	16
Ethyl Ether	C ₄ H ₁₀ O	1.25	15
"	"	1.33	17
"	"	1.47	19
Chloroform	CHCl ₃	23.26	20
Dichloromethane	CH ₂ Cl ₂	26.13	20

№ 6186 2, 2 - BIS(ETHYLSULFONYL)PROPANE – VARIOUS SOLVENTS



[687]

Solvent		Solubility A, Wt. %	t
Name	Formula		
Benzene	C ₆ H ₆	7.32	17
Ethyl Acetate	C ₄ H ₈ O ₂	6.77	20
Toluene	C ₇ H ₈	4.93	20
Carbon Tetrachloride	CCl ₄	0.90	20
Carbon Disulfide	CS ₂	0.226	20

№ 6187

PERFLUORODIMETHYLCYCLOHEXANE –
VARIOUS SOLVENTS

[1766]



t = 27

Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	2.5
Acetone	C ₃ H ₆ O	9.0
Chloroform	CHCl ₃	10.0
Benzene	C ₆ H ₆	4.6
Ethyl Acetate	C ₄ H ₈ O ₂	13.0
Carbon Tetrachloride	CCl ₄	43.0

№ 6188 **NAPHTHALENE — [1830]**
PERFLUOROBUTOXYBUTANE
 $C_{10}H_8 - C_8F_{16}O$

Solubility A, Mol. %	<i>t</i>
0.257	25
0.402	35

№ 6189 **PHENANTHRENE — [1271]**
DIHYDROPERFLUORO-OCTANE
 $C_{14}H_{10} - C_8H_2F_{16}$

Solubility A, Mol. %	<i>t</i>
0.488	25

№ 6190 **ISOQUINOLINE — COUMARONE [89]**
 $C_9H_7N - C_9H_6O$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	-32.2	50.30	49.70	-13.0
9.85	90.15	-39.0	60.51	39.49	-3.0
17.20	82.80	-45.0	69.40	30.60	4.8
23.94	76.06	-48.0	80.40	19.60	11.5
31.15	68.85	-39.0	90.53	9.47	18.7
42.05	57.95	-23.1	100.00	0.00	24.0
49.55	50.45	-14.2			

№ 6191 **COUMARONE — INDENE [89]**
 $C_9H_6O - C_9H_8$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	-1.8	60.23	39.77	-37.0
9.63	90.37	-6.5	65.05	34.95	-40.5
29.42	70.58	-17.2	71.30	28.70	-43.0
40.16	59.84	-23.6	79.19	20.81	-41.0
49.50	50.50	-29.0	88.22	11.78	-37.0
55.50	44.50	-33.6	100.00	0.00	-32.2

№ 6192 **COUMARONE — NAPHTHALENE [89]**
 $C_9H_6O - C_{10}H_8$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	80.0	69.60	30.40	19.9
10.50	89.50	73.7	79.63	20.37	2.8
19.97	80.03	66.0	85.10	14.90	-10.2
30.70	69.30	59.0	90.89	9.11	-33.6
39.60	60.40	52.0	91.22	8.78	-40.0
50.30	49.70	42.7	95.00	5.00	-36.0
50.38	39.62	32.0	100.00	0.00	-33.0

№ 6193

[2055]

o - PHTHALIC ACID - CYMENE

Solubility A, Wt. %	t
0.024	25

№ 6194

[175]

o - PHTHALIC ACID - VARIOUS ALCOHOLS

B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	15.1	-2
"	"	19.5	19
"	"	20.4	21.4
Ethanol	C ₂ H ₆ O	8.2	-2
"	"	11.0	19
"	"	11.65	21.4
1- Propanol	C ₃ H ₈ O	3.42	-3
"	"	5.27	19
"	"	5.54	22
"	"	5.70	23

№ 6195

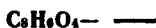
[367]

o - PHTHALIC ACID - VARIOUS SOLVENTS

t = 15

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	9.156
Ethanol 90%	C ₂ H ₆ O	10.478
Ethyl Ether	C ₄ H ₁₀ O	0.679

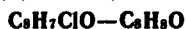
PHTHALIC ACID – VARIOUS SOLVENTS



$t = 28$

Solvent		Solubility A, Mol. %
Name	Formula	
Water	H_2O	8.724
Carbon Tetrachloride	CCl_4	0.244
Benzene	C_6H_6	0.447
Toluene	C_7H_8	0.469
1, 3- Dimethylbenzene	C_9H_{10}	0.465
Chlorobenzene	C_6H_5Cl	0.577
Nitrobenzene	$C_6H_5NO_2$	0.898
Chloroform	$CHCl_3$	1.84
Methanol	CH_4O	5.125
Ethanol	C_2H_6O	4.265
1- Propanol	C_3H_8O	2.732
1- Butanol	$C_4H_{10}O$	2.231
Acetone	C_3H_6O	2.896

CHLOROACETOPHENONE – ACETOPHENONE



Mutual Solubility, wt. %		t	Mutual Solubility, wt. %		t
A	B		A	B	
10.0	90.0	15.9	60.0	40.0	29.0
20.0	80.0	11.0	70.0	30.0	35.9
30.0	70.0	5.9	80.9	19.1	42.6
41.5	58.5	13.1	90.0	10.0	48.0
50.0	50.0	20.5			

INDOLE – QUINOLINE



Solubility A, Wt. %	t
10.22	20

№ 6199 TRINITRO-1,3-DIMETHYLBENZENE -- VARIOUS SOLVENTS



[598]

Solvent		Solubility A, g/l.	t
Name	Formula		
Ethanol 95%	C_2H_6O	0.9	15
"	"	6.5	78.1
1-Pentanol	$C_5H_{12}O$	1.4	15
"	"	12.9	90
"	"	103.0	128.4
Acetone	C_3H_6O	9.5	15
"	"	42.7	57.2
Ethyl Acetate	$C_4H_8O_2$	7.7	15
"	"	54.3	76.1
Acetic Acid	$C_2H_4O_2$	4.0	15
"	"	53.0	90
"	"	150.3	115.3
Aniline	C_6H_7N	38.7	15
"	"	344.8	90
Nitric Acid 48%	HNO_3	55.1	15
"	"	511.0	90
Benzene	C_6H_6	9.2	15
"	"	100.0	80.3
Chlorobenzene	C_6H_5Cl	10.6	15
"	"	114.9	90
Nitrobenzene	$C_6H_5NO_2$	25.6	15
"	"	196.0	90
Carbon Tetrachloride	CCl_4	0.8	15
"	"	9.6	75.3
1,3-Dimethylbenzene	C_8H_{10}	8.3	15
"	"	92.5	90
Blend of Dimethylbenzenes	"	206.1	134.5

№ 6200 2,4,6-TRINITROETHOXYBENZENE -- VARIOUS SOLVENTS



[599]

Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H_2O	0.013	15
"	"	0.044	50
Ethyl Acetate	$C_4H_8O_2$	26.76	15
"	"	64.93	50
Acetone	C_3H_6O	80.41	50
Ethanol 96%	C_2H_6O	1.19	15
"	"	7.25	50
Ethanol	"	1.64	15
"	"	8.54	50
Methanol	CH_4O	3.84	15
"	"	19.35	50

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Benzene	C ₆ H ₆	32.98	15
"	"	74.83	50
Chloroform	CHCl ₃	17.21	15
"	"	63.60	50
Ethyl Ether	C ₄ H ₁₀ O	3.65	15
"	"	7.12	35.5
Pyridine	C ₅ H ₅ N	64.95	15
Carbon Disulfide	CS ₂	0.43	15
"	"	1.66	50
Carbon Tetrachloride	CCl ₄	0.66	15
"	"	0.43	50
Toluene	C ₇ H ₈	23.54	15
"	"	61.97	50

№ 6201 METHYLBENZOIC ACIDS – DIMETHYLBENZENE [479]

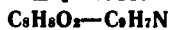
*t* = 14

Acid	Solubility A, Wt. % in		
	<i>o</i> -B	<i>m</i> -B	<i>p</i> -B
<i>o</i> -Methylbenzoic Acid	6.64	5.46	6.88
<i>m</i> -Methylbenzoic Acid	7.94	7.89	9.35
<i>p</i> -Methylbenzoic Acid	1.04	0.90	1.45

№ 6202

[1569]

2, 5 - DIMETHYLQUINONE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
2.93	20



Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Water	H ₂ O	1.64	20
Methanol	CH ₄ O	50.6	-17
"	"	53.2	-13
"	"	59.2	0
"	"	70.8	19.4
"	"	71.8	20
Ethanol	C ₂ H ₆ O	39.7	-17
"	"	41.5	-13
"	"	50.7	0
"	"	64.4	19.4
"	"	65.1	20
1- Propanol	C ₃ H ₈ O	29.4	-17
"	"	32.3	-13
"	"	40.9	0
"	"	56.8	19.4
"	"	57.2	20

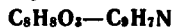
METHYLBENZOIC ACID – VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, g/l.
Name	Formula	
Chloroform	CHCl ₃	601.7
Carbon Tetrachloride	CCl ₄	250.7
Trichloroethylene	C ₂ HCl ₃	448.9
Tetrachloroethylene	C ₂ Cl ₄	211.9
Tetrachloroethane	C ₂ H ₂ Cl ₄	614.5
Pentachloroethane	C ₂ HCl ₅	442.6

QUINOLINE



Solubility A, Wt.%	<i>t</i>
5.22	20

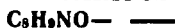


Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	3.45	20
"	"	103.5	On heating
Ethanol 95%	C ₂ H ₅ O	3.45	20
"	"	46.7	On heating
Chloroform	CHCl ₃	7.55	20
Benzene	C ₆ H ₆	0.3	20
"	"	1.6	On heating
Pyridine	C ₅ H ₅ N	20.5	20
"	"	100	24
"	"	340	115
Methyl Acetate	C ₃ H ₈ O ₂	12.2	On heating

№ 6207 2, 4 - DINITROETHOXYBENZENE – VARIOUS SOLVENTS [599]



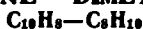
Solvent		Solubility A, wt. %	t
Name	Formula		
Water	H ₂ O	0.003	15
Ethyl Acetate	C ₄ H ₈ O ₂	30.70	15
"	"	57.82	50
Acetone	C ₃ H ₆ O	51.68	15
"	"	74.78	50
Ethanol 96%	C ₂ H ₅ O	2.02	15
"	"	9.98	50
Ethanol	"	2.73	15
"	"	9.04	50
Methanol	CH ₄ O	3.86	15
"	"	15.70	50
Chloroform	CHCl ₃	38.98	15
"	"	65.08	50
Ethyl Ether	C ₄ H ₁₀ O	4.88	15
"	"	8.56	50
Pyridine	C ₅ H ₅ N	48.80	15
"	"	71.73	50
Carbon Disulfide	CS ₂	1.09	15
"	"	2.27	34
Carbon Tetrachloride	CCl ₄	0.73	15
"	"	12.59	50
Toluene	C ₇ H ₈	30.09	15
"	"	64.69	50
Benzene	C ₆ H ₆	38.92	15
"	"	67.72	50



Solvent		Solubility A, Wt. %	t	d _u ^t
Name	Formula			
Water	H ₂ O	0.47	16	—
"	"	0.54	25	0.997
"	"	0.69	30	1.000
Ethyl Ether	C ₄ H ₁₀ O	2.8	25	—
Formic Acid 95%	CH ₃ O ₂	56.74	16.8	1.121
Acetic Acid 95%	C ₂ H ₄ O ₂	33.21	21.5	—
Acetone	C ₃ H ₆ O	31.15	30-31	0.902
Pentyl Acetate	C ₇ H ₁₄ O ₂	10.46	30-31	0.882
1- Pentanol	C ₅ H ₁₂ O	14.00	25	—
Aniline	C ₆ H ₇ N	19.38	30-31	1.034
Benzene	C ₆ H ₆	2.46	30-31	0.875
Benzaldehyde	C ₇ H ₆ O	18.83	30-31	1.068
Toluene	C ₇ H ₈	0.5	25	0.862
Dimethylbenzene	C ₈ H ₁₀	1.65	32.5	0.847
Pyridine	C ₅ H ₅ N	32.7	20-25	—
Petroleum Ether	—	0.03	20	—
Glycerol	C ₃ H ₈ O ₃	1.14	20	—
p- Cymene	C ₁₀ H ₁₄	6.74	30	—
Ethanol	C ₂ H ₆ O	17.56	20-23	—
Quinoline	C ₉ H ₇ N	11.24	20-23	—



Mutual Solubility, Mol. %		m. p.	Mutual Solubility, Mol. %		m. p.
A	B		A	B	
0.0	100.0	52.8	50.0	50.0	28.4
10.0	90.0	48.3	60.0	40.0	36.9
20.0	80.0	43.7	70.0	30.0	43.7
30.0	70.0	37.1	80.0	20.0	49.3
40.0	60.0	29.4	90.0	10.0	54.1
44.5	55.5	24.3	100.0	0.0	57.9



Solubility A, Wt. %	t	Solubility A, Wt. %	t
4.7	-22.0	33.3	25.5
9.1	-13.0	37.5	30.4
13.0	-6.0	41.2	35.0
16.7	0.4	44.5	38.4
20.0	6.0	47.3	41.4
23.1	11.2	50.0	44.3
28.6	19.5		

№ 6211

NAPHTHALENE - DIMETHYBENZENE*

[1724]

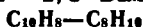


Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
4.76	95.24	-22.0	33.33	66.67	25.6
9.09	90.91	-13.0	37.50	62.50	30.6
13.04	86.96	-6.0	41.18	58.82	35.0
16.67	83.33	0.4	44.44	55.56	38.4
20.00	80.00	6.0	47.37	52.63	41.4
23.33	76.67	11.2	50.00	50.00	44.7
28.57	71.43	19.5			

№ 6212

NAPHTHALENE - 1, 3-DIMETHYLBENZENE

[83]

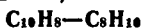


Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
3.04	96.96	-48.5	34.68	65.32	25.0
4.32	95.68	-49.0	39.65	60.35	32.0
5.00	95.00	-42.2	45.13	54.87	37.7
7.00	93.00	-33.5	49.76	50.24	42.0
10.00	90.00	-20.5	59.93	40.07	51.5
14.65	85.35	-8.2	68.76	31.24	58.0
20.07	79.93	4.0	80.10	19.90	66.0
24.82	75.18	12.5	90.12	9.88	72.8
30.05	69.95	19.6			

№ 6213

NAPHTHALENE - 1, 2-DIMETHYLBENZENE

[84]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	-25.5	45.21	54.79	36.0
4.43	95.57	-27.0	49.90	50.10	40.7
6.56	93.44	-27.5	55.39	44.61	45.3
7.86	92.14	-28.0	62.33	37.67	53.0
8.80	91.20	-24.0	71.94	28.06	59.0
11.94	88.06	-14.0	83.02	16.98	67.0
17.79	82.21	-0.5	91.32	8.68	73.2
23.52	76.48	9.5	100.00	0.00	80.0
35.27	64.73	25.5			

* Blend of m-B and p-B

№ 6214

NAPHTHALENE - 1, 4-DIMETHYLBENZENE

[84]

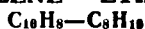


Mutual Solubility, Wt. %		m. p.	Mutual Solubility, Wt. %		m. p.
A	B		A	B	
0.00	100.00	13.3	45.62	54.38	37.0
6.09	93.91	10.6	54.99	45.01	45.2
11.76	88.24	8.0	63.85	36.15	51.8
17.56	82.44	6.0	73.89	26.11	60.0
21.17	78.83	4.2	82.57	17.43	66.6
23.29	76.71	8.0	91.74	8.26	74.0
29.13	70.87	17.3	100.00	0.00	80.0
34.31	65.69	24.0			

№ 6215

NAPHTHALENE - ETHYLBENZENE

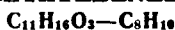
[84]



Mutual Solubility, wt. %		m. p.	Mutual Solubility, Wt. %		m. p.
A	B		A	B	
0.0	100.0	-94.4	16.4	83.6	-2.5
1.7	98.3	-94.0	19.1	80.9	1.5
2.1	97.9	-95.0	23.9	76.1	10.2
2.5	97.5	-87.0	32.7	67.3	23.0
3.1	96.9	-70.0	42.1	57.9	34.0
4.2	95.8	-51.5	55.8	44.2	47.5
7.3	92.7	-31.5	70.9	29.1	59.0
10.2	89.8	-22.0	85.6	14.4	70.5
14.0	86.0	-8.0	100.0	0.0	80.0

№ 6216 α -CAMPHORCARBONIC ACID - [385]

DIMETHYLBENZENE



Solubility A, g/l	t
18.4	20.1

№ 6217

FLUORENE - 1, 3-DIMETHYLBENZENE

[86]



Mutual Solubility, Wt. %		m. p.	Mutual Solubility, Wt. %		m. p.
A	B		A	B	
0.00	100.00	-47.8	61.00	39.00	76.4
4.20	95.80	-48.6	69.30	30.70	83.8
7.76	92.24	-2.3	78.69	21.31	92.5
14.80	85.20	7.1	86.70	13.30	100.5
28.72	71.28	35.5	94.00	6.00	107.0
39.90	60.10	52.6	100.00	0.00	114.0
50.90	49.10	65.6			

№ 6218 **FLUORENE - 1,4 -** [1401]
DIMETHYLBENZENE
 $C_{12}H_{10} - C_6H_{10}$

Mutual Solubility, Mol.%		<i>t</i>
A	B	
5.5	94.5	0
11.2	88.8	20
19.3	80.7	40
32.7	67.3	60
51.3	48.7	80
76.6	23.4	100

№ 6219

FLUORENE - ETHYLBENZENE
 $C_{12}H_{10} - C_8H_{10}$

[86]

Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	-94.4	50.90	49.10	65.8
1.56	98.44	-95.0	61.20	38.80	76.0
3.18	96.82	-64.0	69.82	30.18	84.0
7.46	92.54	-20.0	78.50	21.50	92.7
14.86	85.14	8.6	87.50	12.50	101.0
27.92	72.08	35.2	93.22	6.78	106.3
40.00	60.00	52.7	100.00	0.00	114.0

№ 6220

[932]

9 - OCTADECENOIC ACID -
1, 2 - DIMETHYLBENZENE
 $C_{18}H_{34}O_2 - C_8H_{10}$

Mutual Solubility, Wt.%		<i>t</i>
A	B	
6.0	94.0	-31
23.4	76.6	-20
46.8	53.2	-10
71.4	28.6	0
91.7	8.3	10
Completely miscible		20



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
26.0	74.0	20	54.3	45.7	50
29.7	70.3	25	60.7	39.3	55
33.8	66.2	30	67.8	32.2	60
37.9	62.1	35	75.0	25.0	65
43.0	57.0	40	91.0	9.0	75
48.3	51.7	45			

№ 6222

[2015]

N - o - TOLYLUREA — VARIOUS SOLVENTS



Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	2.51	45
Acetone	C ₃ H ₆ O	4.62	23
Ethyl Ether	C ₄ H ₁₀ O	0.162	22.5
Benzene	C ₆ H ₆	0.155	44.2

№ 6223

[2015]

N - p - TOLYLUREA — VARIOUS SOLVENTS



Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	3.07	45
Acetone	C ₃ H ₆ O	26.6	23
Ethyl Ether	C ₄ H ₁₀ O	0.62	22.5
Benzene	C ₆ H ₆	0.43	44.2

№ 6224

[2015]

N, N' - METHYLPHENYLUREA — VARIOUS SOLVENTS



Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	740	43
Acetone	C ₃ H ₆ O	294	25
Ethyl Ether	C ₄ H ₁₀ O	228	22.5
Benzene	C ₆ H ₆	124	44.2

N - BENZYLUREA - VARIOUS SOLVENTS



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	17.1	45
Acetone	C ₃ H ₆ O	31.0	23
Ethyl Ether	C ₄ H ₁₀ O	0.53	22.5
Benzene	C ₆ H ₆	0.597	44.2

CAFFEINE - p - CYMENE



Mutual Solubility, Wt. %		t
A	B	
0.75	99.25	25
1.09	98.91	30
1.71	98.29	100
13.48	86.52	175

CAFFEINE - VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Ethanol	C ₂ H ₆ O	1.30	25
"	"	1.84	25
"	"	5.53	60
Methanol	CH ₄ O	1.13	25
Pentanol	C ₅ H ₁₂ O	0.50	25
Pentyl Acetate	C ₇ H ₁₄ O ₂	0.71	30.5
Acetic Acid 99.5%	C ₂ H ₄ O ₂	2.53	21.5
Acetone	C ₃ H ₆ O	2.27	30.5
Aniline	C ₆ H ₇ N	22.72	30.5
Benzaldehyde	C ₇ H ₆ O	11.58	30.5
Benzene	C ₆ H ₆	0.90	18.0
"	"	1.15	25.0
"	"	1.22	30.5
"	"	5.02	80.1
Carbon Disulfide	CS ₂	0.06	17
Carbon Tetrachloride	CCl ₄	0.09	18
"	"	0.26	20
"	"	0.70	76.8
Chloroform	CHCl ₃	11.43	17
"	"	10.95	25
"	"	10.65	25

Solvent		Solubility A, Wt. %	t
Name	Formula		
Chloroform	CHCl ₃	13.51	61.2
Ethyl Ether	C ₄ H ₁₀ O	0.12	18
"	"	0.27	25
"	"	0.30	34.6
Trichloroethylene	C ₂ HCl ₃	0.75	15
Dichloroethylene	C ₂ H ₂ Cl ₂	1.79	15
Pyridine	C ₅ H ₅ N	25.59	20—25
50% Aq. Pyridine	"	10.00	20—25
Toluene	C ₇ H ₈	0.58	25
Dimethylbenzene	C ₈ H ₁₀	1.12	32.5
Quinoline	C ₉ H ₇ N	3.44	20—25
Quinoline + Ethanol (equimolecular blend)	C ₉ H ₇ N + C ₂ H ₆ O	3.78	20—25

№ 6228

[1772]

N-ETHYLANILINE — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	m. p.
Name	Formula		
Hexane	C ₆ H ₁₄	40	—47.8
4-Methylpentane	"	40	—40.8
Trimethylethylmethane	"	40	—33.7

№ 6229 γ-PENTYL-γ-PROPANERSULTONE (OCTANE SULTONE) — [284]
VARIOUS SOLVENTS

t = 20

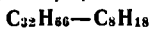
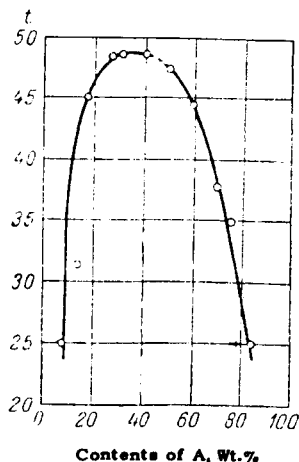
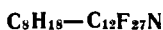
Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	C ₄ H ₁₀ O	4.84
Benzene 90%	C ₆ H ₆	25.88
Chloroform	CHCl ₃	55.57
Acetone	C ₃ H ₆ O	52.43
Methanol	CH ₄ O	13.15
Ethanol	C ₂ H ₆ O	4.98
Ethanol 95%	"	5.21
2-Propanol	C ₃ H ₈ O	4.37
Petrol	—	0.22



Mutual Solubility, Mol.%		<i>t</i>	Mutual Solubility, Mol.%		<i>t</i>
A	B		A	B	
2.28	97.72	16.7	31.8	68.2	52.4
4.45	95.55	31.4	36.8	63.2	51.8
8.53	91.47	46.0	43.7	56.3	50.4
15.71	84.29	52.3	53.8	46.2	44.9
20.6	79.4	53.8	70.0	30.0	28.0
21.9	78.1	53.6	75.7	24.3	20.4
25.0	75.0	53.5	82.4	17.6	<10
28.0	72.0	53.1			

№ 6231

[2002]

**2, 2, 4-TRIMETHYLPENTANE –
PERFLUOROTRIBUTYLAMINE**

Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.83	99.17	21.7	10.5	89.5	39.0
2.78	97.22	29.6	13.6	86.4	40.8
4.12	95.88	32.2	14.5	85.5	40.9
3.80	96.20	32.6	19.2	80.8	42.9
4.96	95.04	33.3	51.9	48.1	53.6
8.24	91.76	37.4			

№ 6233

[2031]

PARAFFIN* - OCTANE— — C₈H₁₈

Solubility A, Wt. %	<i>t</i>
1.38	0
2.34	5
3.95	10
5.66	15
7.75	20
14.17	25

№ 6234

2, 2 - BIS -

[2027]

**(ETHYLSULFONYL)BUTANE -
PETROLEUM ETHER**C₈H₁₈S₂O₄ — —

Solubility A, Wt. %	<i>t</i>
0.41	25

№ 6235

[1830]

**NAPHTHALENE - PERFLUORO-
TRIPROPYLAMINE**C₁₀H₈ - C₉F₂₁N

Solubility A, Mol. %	<i>t</i>
0.300	25
0.461	35

№ 6236

[1569]

COUMARIN - QUINOLINEC₉H₆O₂ - C₉H₇N

Solubility A, Wt. %	<i>t</i>
0.56	20

№ 6237

[895]

**PHENYLPROPINOIC ACID -
VARIOUS SOLVENTS**C₉H₆O₂ — —*t* = 20

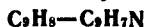
Solvent		Solubility A, g/l.
Name	Formula	
Chloroform	CHCl ₃	115.3
Carbon Tetrachloride	CCl ₄	33.16
Trichloroethylene	C ₂ HCl ₃	55.82
Tetrachloroethylene	C ₂ Cl ₄	47.34
Tetrachloroethane	C ₂ H ₂ Cl ₄	104.9
Pentachloroethane	C ₂ HCl ₅	59.91

* m.p. 56°, *d*₄²⁰ 0.775.

№ 6238

INDENE – ISOQUINOLINE

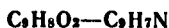
[88]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	24.0	59.60	40.40	5.0
9.25	90.75	21.0	69.48	30.52	2.5
21.21	78.79	16.7	80.00	20.00	0.4
31.40	68.60	13.2	80.70	19.30	0.3
40.44	59.56	10.8	90.00	10.00	-1.0
50.18	49.82	8.0	100.00	0.00	-1.8

№ 6239

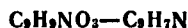
[1569]

**CINNAMIC ACID –
QUINOLINE**

Solubility A, Wt.%	<i>t</i>
1.82	20

№ 6240

[1569]

**N - BENZOYLGLYCINE –
QUINOLINE**

Solubility A, Wt.%	<i>t</i>
16.95	20

№ 6241

[1569]

NAPHTHALENE – QUINOLINE

Solubility A, Wt.%	<i>t</i>
2.93	20

№ 6242

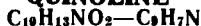
NAPHTHALENE – ISOQUINOLINE

[88]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	24.0	49.77	50.23	58.0
4.57	95.43	28.0	60.00	40.00	63.5
10.80	89.20	33.0	69.76	30.24	68.0
20.70	79.30	41.0	79.90	20.10	72.0
29.51	70.49	46.5	90.36	9.64	76.0
41.09	58.91	53.5	100.00	0.00	80.0

№ 6243 [1569]

P - ACETOPHENETIDE -**QUINOLINE**

Solubility A, Wt. %	<i>t</i>
7.26	20

№ 6244 [1569]

ANTIPYRINE - QUINOLINE

Solubility A, Wt. %	<i>t</i>
15.9	20

№ 6245 [1569]

CARBAZOLE - QUINOLINE

Solubility A, Wt. %	<i>t</i>
25.04	20

№ 6246 [1539]

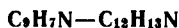
BENZIDINE - QUINOLINE

Solubility A, Wt. %	<i>t</i>
30.1	20

№ 6247

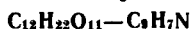
QUINOLINE - DIPHENYLAMINE

[104]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	54	50.00	50.00	39
10.00	90.00	46	55.31	44.69	37
20.00	80.00	38	60.88	39.12	36
22.19	77.81	35	64.18	35.82	34
25.87	74.13	34	69.98	30.02	29
31.07	68.93	39	75.08	24.92	24
37.95	62.05	41	80.24	19.76	15
42.46	57.54	41			

№ 6248 [1569]

LACTOSE - QUINOLINE

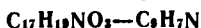
Solubility A, Wt. %	<i>t</i>
1.93	20

№ 6249 [1569]

N, N' - DIPHEYLUREA - QUINOLINE

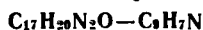
Solubility A, Wt. %	<i>t</i>
2.44	20

№ 6250 [1569]

PIPERINE - QUINOLINE

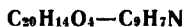
Solubility A, Wt. %	<i>t</i>
12.02	20

№ 6251 [1569]

p, p' - BIS-DIMETHYLAMINO BENZO-PHENONE - QUINOLINE

Solubility A, Wt. %	<i>t</i>
8.86	20

№ 6252 [1569]
PHENOLPHTHALEIN – QUINOLINE



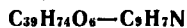
Solubility A, Wt. %	<i>t</i>
0.32	20

№ 6254 [1569]
HYDROBENZAMIDE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
3.79	20

№ 6256 [1569]
GLYCEROL TRIDODECANOATE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
15.41	20

№ 6258 [1569]
HEMOGLOBIN – QUINOLINE



Solubility A, Wt. %	<i>t</i>
0.23	20

№ 6253 [1569]
QUININE – QUINOLINE



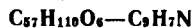
Solubility A, Wt. %	<i>t</i>
18.2	20

№ 6255 [1569]
PAPAVERINE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
7.11	20

№ 6257 [1569]
GLYCEROL TRIOCTADECANOATE – QUINOLINE



Solubility A, Wt. %	<i>t</i>
5.08	20

№ 6259 [1569]
CASEIN – QUINOLINE

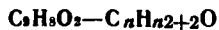


Solubility A, Wt. %	<i>t</i>
0.38	20

№ 6260 [88]
NAPHTHALENE – INDENE



Mutual Solubility, wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	—1.8	39.82	60.18	34.5
4.04	95.96	—1.0	48.49	51.51	43.5
5.38	94.62	0.5	49.90	50.10	44.0
10.20	89.80	5.0	59.61	40.39	53.1
14.20	85.80	9.2	59.90	40.10	53.2
19.50	80.50	15.0	68.88	31.12	59.3
21.73	78.27	17.1	78.90	21.10	66.5
28.00	72.00	23.8	100.00	0.00	80.0
30.13	69.87	25.5			



B		Solubility A, Wt.%	t
Name	Formula		
Methanol	CH ₄ O	8.1	-18
"	"	9.3	-12.5
"	"	13	0
"	"	22.5	19.5
Ethanol	C ₂ H ₆ O	6.74	-18
"	"	8.0	-12.5
"	"	11.3	0
"	"	18.1	19.5
1-Propanol	C ₃ H ₈ O	4.3	-18
"	"	5.5	-12.5
"	"	8.2	0
"	"	13.4	19.5
2-Methyl-1-propanol	C ₄ H ₁₀ O	8.3	19.5

**CINNAMIC ACID —
PETROLEUM ETHER**



Solubility A, g/l.	t
0.95	26

**CINNAMIC ACID —
VARIOUS OILS**



t = 25

B	Solubility A, Wt.%
Coconut Oil	1.74
Cotton Seed Oil	1.42
Castor Oil	6.99
Linseed Oil	1.63
Olive Oil	1.27
Peanut Oil	1.50



Solvent		Solubility A, Wt. %	t
Name	Formula		
cis - Dichloroethylene	C ₂ H ₂ Cl ₂	2.27	0
trans - Dichloroethylene	C ₂ H ₂ Cl ₂	1.89	0
cis - Bromo - 2 - butene	C ₄ H ₇ Br	3.55	40
trans - 2 - Bromo - 2 - butene	C ₄ H ₇ Br	4.44	40
2 - Butenenitrile	C ₄ H ₅ N	8.86	30
Ethyl β - Chloroethyl 2 - Butenoate	C ₈ H ₉ O ₂ Cl	4.20	30

№ 6265

[895]

CINNAMIC ACID – VARIOUS SOLVENTS



t = 25

Solvent		Solubility A, g/l.
Name	Formula	
Chloroform	CHCl ₃	120.9
Carbon Tetrachloride	CCl ₄	17.5
Trichloroethylene	C ₂ HCl ₃	60.4
Tetrachloroethylene	C ₂ Cl ₄	25.5
Tetrachloroethane	C ₂ H ₂ Cl ₄	110.5
Pentachloroethane	C ₂ HCl ₅	55.4

№ 6266

[596]

CINNAMIC ACID – VARIOUS SOLVENTS



t = 20

Solvent		Solubility A, Mol. %
Name	Formula	
Water	H ₂ O	0.00894
Carbon Tetrachloride	CCl ₄	1.071
Benzene	C ₆ H ₆	3.033
Toluene	C ₇ H ₈	2.966
1, 3 - Dimethylbenzene	C ₈ H ₁₀	2.852
Chlorobenzene	C ₆ H ₅ Cl	3.608
Nitrobenzene	C ₆ H ₅ NO ₂	4.965
Chloroform	CHCl ₃	7.268
Methanol	CH ₄ O	6.337
Ethanol	C ₂ H ₆ O	7.665
1 - Propanol	C ₃ H ₈ O	8.500
1 - Butanol	C ₄ H ₁₀ O	9.156
Acetone	C ₃ H ₆ O	11.93

**3-PHENYL-2,3-DIBROMO-
PROPANOIC ACID –
PETROLEUM ETHER**



Solubility A, g/l.	<i>t</i>
0.72	26

N-BENZOYLGLYCINE – VARIOUS ALCOHOLS



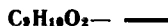
B		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH ₄ O	8.92	22
Ethanol	C ₂ H ₆ O	4.94	22
1-Propanol	C ₃ H ₈ O	2.72	23

№ 6269 NAPHTHALENE – 2,4,6-TRINITRO-1,3,5-TRIMETHYLBENZENE

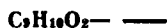


Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0	100	232	71	29	160.0
10	90	229	81	19	135.5
20	80	220.7	84	16	122.0
27	73	216.5	90	10	95.3
37	63	205.2	98	2	78.5
49	51	192.5	100	0	80.0
60	40	177.0			

3-PHENYLPROPANOIC ACID – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	0.7	19
Methanol	CH ₄ O	55.8	—18.5
"	"	57.6	—16
"	"	66.9	0
"	"	82.8	19.6
"	"	83.8	20
Ethanol	C ₂ H ₆ O	46.0	—18.5
"	"	48.0	—16
"	"	77.2	19.6
"	"	78.8	20
1-Propanol	C ₃ H ₈ O	35.0	—18.5
"	"	39.0	—16
"	"	73.4	19.6
"	"	73.9	20
2-Methyl-1-propanol	C ₄ H ₁₀ O	67.3	19.6

3-PHENYLPROPANOIC ACID –
VARIOUS SOLVENTS*t* = 20

Solvent		Solubility A, g/l.
Name	Formula	
Chloroform	CHCl ₃	817.2
Carbon Tetrachloride	CCl ₄	691.1
Trichloroethylene	C ₂ HCl ₃	771.6
Tetrachloroethylene	C ₂ Cl ₄	709.2
Tetrachloroethane	C ₂ H ₂ Cl ₄	815.1
Pentachloroethane	C ₂ HCl ₅	753.4

NAPHTHALENE – BUTYL FUROATE



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
27.2	72.8	20	55.5	44.5	50
30.9	69.1	25	61.8	38.2	55
35.1	64.9	30	68.4	31.6	60
37.9	62.1	35	75.3	24.7	65
44.5	55.5	40	91.3	8.7	75
49.8	50.2	45			

№ 6273 POTASSIUM 2, 4 - DINITRO - 1 - NAPHTHOL - 7 - SULFONATE -
VARIOUS SOLVENTS $C_{10}H_5N_2O_6SK-$ — [1178]

Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	3.7	3
"	"	11.2	30
Ethanol 95%	C ₂ H ₅ O	0.12	3
"	"	0.16	30
1-Butanol	C ₄ H ₁₀ O	0.04	3
"	"	0.05	30

№ 6274 1 - NITRONAPHTHALENE - DIPHENYLAMINE [1443]
 $C_{10}H_7NO_2-C_{12}H_{11}N$

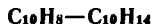
Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	52.8	60.0	40.0	32.4
10.0	90.0	48.4	70.0	30.0	40.1
20.0	80.0	43.6	80.0	20.0	46.6
30.0	70.0	37.4	90.0	10.0	51.3
40.0	60.0	31.1	100.0	0.0	55.8
50.0	50.0	23.8			

№ 6275 NAPHTHALENE - 1, 2, 3, 4 - TETRAHYDRONAPHTHALENE [2037]
 $C_{10}H_8-C_{10}H_{12}$

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
10	90	-14	40	60	23
15	85	-6	50	50	30
20	80	1	60	40	36
30	70	13			

№ 6276 [2055]

NAPHTHALENE - p - CYMENE



Solubility A, Wt. %	t
12.45	30

№ 6277 NAPHTHALENE – DECAHYDRO- [2037]

NAPHTHALENE



Mutual Solubility, wt. %		<i>t</i>
A	B	
10.3	89.7	10
20.3	79.7	20
30.4	69.6	30
42.1	57.9	40
76.5	23.5	48

№ 6278

NAPHTHALENE – ACENAPHTHENE

[81]

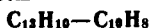


Mutual Solubility, wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.0	100.0	95	55.0	45.0	56
10.0	90.0	88.5	58.0	42.0	58
20.0	80.0	81	60.0	40.0	59
30.0	70.0	74	65.0	35.0	63
40.0	60.0	67	70.0	30.0	66
45.0	55.0	63	80.0	20.0	71
50.0	50.0	59	90.0	10.0	76
53.0	47.0	57.5	100.0	0.0	80.5

№ 6279

[86]

FLUORENE – NAPHTHALENE



Mutual Solubility, Wt. %		m.p.
A	B	
0.00	100.00	80.0
10.05	89.95	74.3
19.33	80.67	69.2
29.67	70.33	62.5
40.25	59.75	56.2
43.40	56.60	55.0
45.05	54.95	56.5
50.07	49.93	63.8
59.80	40.20	75.5
69.84	30.16	85.4
79.83	20.17	95.3
90.45	9.55	104.4
100.00	0.00	114.0

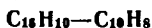
№ 6280

[80]

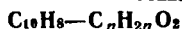
NAPHTHALENE – PHENANTHRENE



Mutual Solubility, Wt. %		m.p.
A	B	
0	100	101.0
10	90	91.5
20	80	81.5
30	70	73.0
40	60	63.0
45	55	59.5
50	50	54.0
55	45	56.5
60	40	60.0
70	30	65.5
80	20	71.0
90	10	76.0
100	0	80.5



Mutual Solubility, Wt. %			Mutual Solubility, Wt. %		
A	B	m.p.	A	B	m.p.
0.00	100.00	80.2	57.40	42.60	63.9
17.31	82.69	73.1	63.00	37.00	70.3
34.12	65.88	65.3	71.59	28.41	79.6
44.52	55.48	59.0	72.90	27.10	88.2
50.15	49.85	58.8	91.75	8.25	101.0
52.40	47.60	57.7	100.00	0.00	110.0



B		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Acetic Acid	$C_2H_4O_2$	6.37	6.75
" "	"	11.58	21.5
" "	"	23.72	42.5
" "	"	34.85	51.3
" "	"	52.60	60.0
Butanoic Acid	$C_4H_8O_2$	11.97	6.75
" "	"	18.10	21.5
" "	"	56.82	60.0
2-Methylpropanoic Acid	"	10.95	6.75
Propanoic Acid	$C_3H_6O_2$	12.20	6.75
" "	"	18.96	21.5
" "	"	44.38	50.0
Pentanoic Acid	$C_5H_{10}O_2$	8.68	6.75
" "	"	15.04	21.5
" "	"	62.60	65.0

NAPHTHALENE -
HYDROCARBON BLENDS*
 $C_{10}H_8$ - (heavy naphtha)

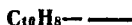
Solubility A, Wt. %	<i>t</i>
4.7	-32.0
9.1	-13.0
16.7	6.0
23.1	18.0
28.6	25.6
33.3	31.9
37.8	36.0
41.2	40.1
44.4	43.5
47.3	47.0
50.0	49.5

NAPHTHALENE -
HYDROCARBON BLENDS**
 $C_{10}H_8$ - (creosote oil)

Solubility A, Wt. %	<i>t</i>
4.7	-8.0
9.1	-8.5
16.7	-9.0
23.1	5.0
28.6	17.6
33.3	26.0
37.8	31.0
41.2	36.0
44.4	40.5
47.3	44.1
50.0	48.0

* Hydrocarbon blend; $d_4^{25.5}$ 0.864, p.b. 154 - 188°.

** Hydrocarbon blend; $d_4^{25.5}$ 1.030, b.p. 239 - 303°.



Solvent		Solubility A, Mol. %	<i>t</i>
Name	Formula		
1- Butoxybutane	C ₈ H ₁₈ O	37.73	42.6
"	"	41.53	45.7
"	"	50.78	52.9
1- Ethoxypropane	C ₅ H ₁₂ O	27.08	29.9
"	"	36.50	39.7
"	"	39.36	42.3
2- Ethoxypropane	"	40.26	43.9
"	"	51.36	52.3
Tetrahydropyran	C ₅ H ₁₀ O	34.21	26.4
"	"	37.05	30.1
"	"	46.08	40.2
β, β' - Dimethyltrimethylene Oxide	"	34.60	29.2
"	"	41.73	38.9
α, α' - Dimethyltrimethylene Oxide	"	30.10	33.8
"	"	40.87	39.9
"	"	45.57	44.7
1- Methyl- 2- ethyl- 1, 2- epoxyethane	"	32.56	27.4
"	"	42.23	38.2
"	"	50.52	46.6



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, wt. %		m.p.
β- A	B		β- A	B	
0	100	42.0	50	50	88.0
5	95	38.5	60	40	97.5
10	90	34.0	70	30	105.0
20	80	52.5	80	20	111.0
30	70	68.0	90	10	116.5
40	60	80.0	100	0	121.7

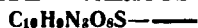


Solubility A, Wt. %	<i>t</i>
7.95	30



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	112.0	75.00	25.00	54.5
9.64	90.36	105.0	80.00	20.00	46.5
19.14	80.86	100.0	83.00	17.00	42.0
29.95	70.05	94.5	85.06	14.94	44.0
40.00	60.00	88.0	90.11	9.89	47.0
49.92	50.08	81.0	95.00	5.00	50.0
59.90	40.10	71.0	100.00	0.00	54.0
69.99	30.01	60.5			

№ 6289 AMMONIUM 2, 4-DINITRO-1-NAPHTHOL-7- [1178]
SULFONATE — VARIOUS SOLVENTS



Solvent		Solubility A, g/1	t
Name	Formula		
Water	H ₂ O	14.2	3
Ethanol 95%	C ₂ H ₆ O	2.57	3
" "	" "	6.22	30
1-Butanol	C ₄ H ₁₀ O	0.29	3
" "	" "	0.39	30

№ 6290

[1178]

HYDROXYLAMMONIUM 2, 4-DINITRO-1-NAPHTHOL-
7-SULFONATE — VARIOUS SOLVENTS



Solvent		Solubility A, g/1	t
Name	Formula		
Water	H ₂ O	16.0	3
" "	" "	70.0	30
Ethanol 95%	C ₂ H ₆ O	26.0	30
1-Butanol	C ₄ H ₁₀ O	2.4	3
" "	" "	5.2	30

№ 6291

[1537]

NAPHTHALENE PICRATE —
1, 2, 3, 4-TETRAHYDRONAPHTHALENE



Mutual Solubility, Wt. %		t
A	B	
3.6	96.4	10
5.8	94.2	20
8.6	91.4	30
12.3	87.7	40
17.3	82.7	50
24.0	76.0	60

№ 6292 N - 2 - PROPENYL - N' - PHENYLTHIOUREA - DIPHENYLAMINE [205]



Mutual Solubility, Mol. %		<i>t</i>	Mutual Solubility, Mol. %		<i>t</i>
A	B		A	B	
19.50	80.50	53.8	48.80	51.20	77.5
21.60	78.40	57.0	49.32	50.68	78.0
30.30	69.70	64.6	60.00	40.00	83.5
34.70	65.30	69.0	70.77	29.23	88.5
39.62	60.38	72.5	78.40	21.60	91.5

№ 6293 [1689]

**ACETOPHENETIDINE -
PETROLEUM ETHER**



Solubility A, g/l.	<i>t</i>
0.15	20

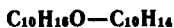
№ 6294 ACETOPHENETIDINE - VARIOUS SOLVENTS [1770]



Solvent		Solubility A, Wt. %	<i>t</i>	<i>d</i> ₄ ^t
Name	Formula			
Acetone	C_3H_6O	10.68	30-31	—
Pentanol Acetate	$C_7H_{14}O_2$	2.42	30-31	0.865
Pentanol	$C_5H_{12}O$	3.51	25	0.819
Acetic Acid 99.5%	$C_2H_4O_2$	13.65	21.5	1.064
Aniline	C_6H_7N	9.46	30-31	1.025
Benzaldehyde	C_7H_6O	8.44	30-31	1.063
Benzene	C_6H_6	0.65	30-31	0.873
Chloroform	$CHCl_3$	4.76	25	—
Ethyl Ether	$C_4H_{10}O$	1.56	25	—
Toluene	C_7H_8	0.30	25	0.863
Dimethylbenzene	C_8H_{10}	1.25	32.5	0.847

№ 6295 [2055]

**CAMPHORIC ACID -
p - CYMENE**



Solubility A, Wt. %	<i>t</i>
1.51	100

№ 6296 [2055]

ANTIPYRINE - p - CYMENE



Solubility A, Wt. %	<i>t</i>
2.05	30

№ 6297

FLUORENE - 1, 2, 4, 5 - TETRAMETHYLBENZENE

[86]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	79.0	39.70	60.30	60.5
9.93	90.07	74.4	49.94	50.06	70.2
15.44	84.56	71.8	60.20	39.80	80.9
21.33	78.67	69.2	71.38	28.72	89.9
25.60	74.40	67.4	81.06	18.94	97.9
29.40	70.60	65.3	89.45	10.55	104.6
35.05	64.95	62.0	100.00	0.00	114.0

№ 6298

[2055]

ANTHRACENE - CYMENE

Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.55	98.45	25
1.69	98.31	30
8.46	91.54	100
49.65	50.35	176

№ 6299

FLUORANTHENE - 1, 2, 4, 5 - TETRAMETHYLBENZENE

[90]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	79.2	50.02	49.98	61.3
12.26	87.74	74.2	55.00	45.00	67.2
22.37	77.63	70.1	63.71	36.29	76.0
32.00	68.00	66.2	73.61	26.39	85.0
37.54	62.46	63.3	84.42	15.58	95.0
44.76	55.24	59.5	91.85	8.15	101.6
48.14	51.86	59.0	100.00	0.00	110.0

№ 6300

[2055]

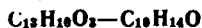
STRYCHNINE - p - CYMENE

Solubility A, Wt. %	<i>t</i>
0.70	30
0.94	100

№ 6301

PHENYL o-HYDROXYBENZOATE - THYMOL

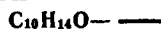
[312]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	51	60	40	17.5
10	90	46	66	34	13
20	80	40	70	30	18
30	70	34.5	80	20	26
40	60	29	90	10	34
50	50	23	100	0	42

№ 6302

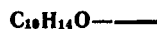
[1771]

THYMOL - ARACHIS OIL

Mutual Solubility, Wt. %		t
A	B	
42.2	57.8	10
42.46	57.54	15
42.73	57.27	20
43.32	56.68	25
45.41	54.59	30
51.62	48.38	35
56.61	43.39	37
68.00	32.00	40

№ 6303

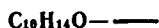
[1771]

THYMOL - VASELINE OIL

Mutual Solubility, Wt. %		t
A	B	
3.01	96.99	10
3.80	96.20	15
5.30	94.70	20
8.91	91.09	25
14.02	85.98	30
20.32	79.68	35
23.02	76.98	37
28.01	71.99	40

№ 6304

[1771]

THYMOL - CASTOR OIL

Mutual Solubility, Wt. %		t
A	B	
44.81	55.19	10
47.42	52.58	15
50.37	49.63	20
53.81	46.19	25
57.80	42.20	30
62.26	37.74	35
64.28	35.72	37
68.05	31.95	40

№ 6305

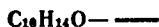
[1771]

THYMOL - LINSEED OIL

Mutual Solubility, Wt. %		t
A	B	
38.39	61.61	10
38.69	61.31	15
39.43	60.57	20
40.83	59.17	25
43.91	56.09	30
50.00	50.00	35
53.81	46.19	37
60.32	39.68	40

№ 6306

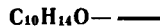
[1771]

THYMOL - OLIVE OIL

Mutual Solubility, Wt. %		<i>t</i>
A	B	
31.60	68.40	10
33.38	66.62	15
35.98	64.02	20
40.08	59.92	25
45.80	54.20	30
52.60	47.40	35
55.41	44.59	37
60.30	39.70	40

№ 6307

[1771]

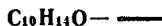
THYMOL - COD LIVER OIL

Mutual Solubility, Wt. %		<i>t</i>
A	B	
33.33	66.67	10
34.21	65.79	15
35.69	64.31	20
38.69	61.31	25
43.50	56.50	30
50.49	49.51	35
53.81	46.19	37
60.00	40.00	40

№ 6308

THYMOL - COTTON SEED OIL

[1771]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
35.98	64.02	10	53.20	46.80	30
39.02	60.98	15	59.41	40.59	35
42.59	57.41	20	62.48	37.52	37
47.20	52.80	25	68.50	31.50	40

№ 6309

 α -BROMOCAMPHOR - VARIOUS SOLVENTS

[1772]



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethanol	C_2H_6O	10.79	15
"	"	16.46	25
"	"	56.52	50
"	"	87.58	61
Ethyl Ether	$C_4H_{10}O$	33.33	20
Chloroform	$CHCl_3$	58.85	20
Olive Oil	—	11.11	20
Formic Acid 95%	CH_2O_2	11.97	20

№ 6310

CARVONE OXIME - d-LIMONENE

[800]



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
<i>l</i> - A	<i>d</i> - A		A	<i>d</i> - A	
30.84	—	24.6	66.52	—	48.0
37.19	—	30	—	66.63	49.4
—	38.76	30.3	76.47	—	55.1
51.05	—	38.4	—	77.61	55.9
—	50.76	39.3	—	84.85	58.8
56.67	—	43.1	—	92.70	63.2

№ 6311 PHENYL o-HYDROXYBENZOATE - [313]

CAMPHOR



Solubility A, Wt. %	<i>t</i>
56.0	6

№ 6312

d-CAMPHOR - VARIOUS SOLVENTS

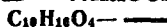
*t* = 20

[816]

Solvent		Solubility A,
Name	Formula	Wt. %
Water	H ₂ O	0.08—0.14
Ethanol 90%	C ₂ H ₆ O	50.00
Ethanol 95%	"	55.55
Ethyl Ether	C ₄ H ₁₀ O	63.37
Chloroform	CHCl ₃	75—80
Olive Oil	—	20—25
Turpentine	—	39.76
Acetic Acid	C ₂ H ₄ O ₂	66.67
Lanoline	—	11.11

№ 6313

CAMPHORIC ACID - VARIOUS SOLVENTS

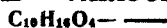


[1772]

Solvent		Solubility A,	<i>t</i>
Name	Formula	Wt. %	
2-Methyl-1-propanol	C ₄ H ₁₀ O	35.11	22.5
Ethanol	C ₂ H ₆ O	45.86	0
"	"	52.83	15.1
"	"	59.51	62.5
Methanol	CH ₄ O	53.77	0
"	"	56.73	22.5
1-Propanol	C ₃ H ₈ O	29.68	0
"	"	37.89	22.5
Formic Acid 95%	CH ₂ O ₂	7.99	18.5

№ 6314

CAMPHORIC ACID - VARIOUS SOLVENTS

*t* = 25

[1772]

Solvent		Solubility A,	<i>d</i> ₄ ²⁵
Name	Formula	Wt. %	
3-Methyl-1-butanol	C ₅ H ₁₂ O	33.3	0.907
Benzene	C ₆ H ₆	0.008	0.873
Carbon Disulfide	CS ₂	0.020	1.258
Chloroform	CHCl ₃	0.153	—
Cymene	C ₁₀ H ₁₄	0.197	0.890

Solvent		Solubility A, Wt. %	d_4^{25}
Name	Formula		
Ethyl Ether	$C_4H_{10}O$	47.75	0.922
Ligroin	—	0.007	0.714
Nitrobenzene	$C_6H_5NO_2$	0.498	1.200
Turpentine	—	1.71	0.852
Toluene	C_7H_8	0.15	0.862
Dimethylbenzene	C_8H_{10}	0.23	0.859

№ 6315

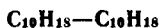
[1772]

CAMPHOR OXIME — TURPENTINE

Solubility A, Wt. %		<i>t</i>
<i>d</i> -form	<i>l</i> -form	
7.98	7.99	18

№ 6316

[1786]

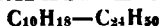
cis-DECAHYDRONAPHTHALENE — trans-DECAHYDRONAPHTHALENE

Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.00	100.00	—30.65	61.80	38.20	—61.10
3.12	96.88	—31.82	65.22	34.78	—59.36
10.03	89.97	—34.05	74.75	25.25	—55.12
20.00	80.00	—39.00	82.48	17.52	—51.25
32.10	67.90	—45.99	91.45	8.55	—47.04
38.01	61.99	—47.49	94.64	5.36	—45.56
43.39	56.61	—50.07	97.58	2.42	—44.22
49.77	50.23	—54.34	100.00	0.00	—43.27
60.00	40.00	—57.71			

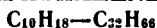
№ 6317

cis-DECAHYDRONAPHTHALENE — TETRACOSANE

[1786]



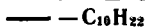
Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.00	100.00	50.65	69.84	30.16	36.17
12.96	87.04	48.87	77.64	22.36	32.82
22.33	77.67	47.20	84.13	15.87	29.45
25.92	74.08	46.20	86.26	13.74	27.80
29.15	70.85	46.03	90.42	9.58	24.26
29.52	70.48	45.91	93.34	6.66	21.00
43.52	56.48	43.35	95.96	4.04	15.80
58.27	41.73	39.80	98.38	1.62	8.65
62.57	37.43	39.11			



Mutual Solubility, Mol.%		m.p.	Mutual Solubility, Mol.%		m.p.
A	B		A	B	
0.00	100.00	69.55	66.42	33.58	56.68
4.49	95.51	68.69	76.45	23.55	52.21
14.23	85.77	67.68	81.88	18.12	49.26
22.15	77.85	66.58	88.15	11.85	44.05
25.68	74.32	66.08	91.17	8.83	41.20
34.46	65.54	64.40	93.02	6.98	39.21
44.20	55.80	62.80	93.85	6.15	38.52
45.75	54.25	62.41	94.99	5.01	36.80
52.18	47.82	61.06	95.30	4.70	36.16

№ 6319

[2031]

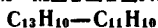
PARAFFIN* – 8-METHYLNONANE

Solubility A, Wt.%	t
1.29	5
1.96	10
3.66	15
6.46	20
11.28	25

№ 6320

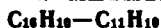
FLUORENE – 2-METHYLNAPHTHALENE

[86]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	34.0	39.05	60.95	63.0
2.41	97.59	33.4	44.77	55.23	67.5
4.07	95.93	32.0	55.30	44.70	77.9
10.60	89.40	37.5	60.40	39.60	83.6
20.60	79.40	44.0	72.10	27.90	93.2
25.00	75.00	47.8	79.47	20.53	99.3
30.60	69.40	53.3	89.20	10.80	105.5
35.05	64.95	57.9	100.00	0.00	114.0

* m.p. 56°, d_4^{20} 0.775.



Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0.00	100.00	34.1	50.00	50.00	57.1
13.78	86.22	25.2	57.83	42.17	68.1
17.34	82.66	23.3	66.31	33.69	76.5
22.00	78.00	20.6	73.09	26.91	83.4
26.33	73.67	19.3	81.67	18.33	91.9
30.50	69.50	24.7	92.65	7.35	102.4
36.56	63.44	37.0	100.00	0.00	110.0
42.13	57.87	44.2			

URONIUM 2, 4-DINITRO-1-NAPHTHOL-7-
SULFONATE - VARIOUS SOLVENTS



Solvent		Solubility A, g/l	t
Name	Formula		
Water	H ₂ O	15.7	3
"	"	40.0	30
Ethanol 95%	C ₂ H ₆ O	12.4	3
"	"	17.0	30
1-Butanol	C ₄ H ₁₀ O	0.56	3
"	"	0.81	30

METHYLAMMONIUM 2, 4-DINITRO-1-NAPHTHOL-
7-SULFONATE - VARIOUS SOLVENTS



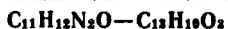
Solvent		Solubility A, g/l	t
Name	Formula		
Water	H ₂ O	7.6	3
Ethanol 95%	C ₂ H ₆ O	1.95	3
"	"	4.10	30
1-Butanol	C ₄ H ₁₀ O	0.09	3
"	"	0.17	30

**GUANIDINIUM 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE - VARIOUS SOLVENTS**



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	1.30	3
"	"	3.34	30
Ethanol 95%	C ₂ H ₆ O	1.64	3
"	"	3.57	30
1-Butanol	C ₄ H ₁₀ O	0.19	3
"	"	0.19	30

ANTIPYRINE - PHENYL o - HYDROXYBENZOATE [312, 313]

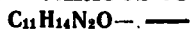


Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0	100	42	50	50	75
10	90	35	60	40	83
17	83	30	70	30	91
20	80	34	80	20	98
30	70	53	90	10	104.5
40	60	65	100	0	112.6

ANTIPYRINE - BENZINE [102]



Mutual Solubility, Wt.%		t	Mutual Solubility, Wt.%		t
A	B		A	B	
2.98	97.02	80.0	81.45	18.55	145.0
5.12	94.88	99.0	87.19	12.81	122.0
8.34	91.66	119.0	89.75	10.25	110.0
14.47	85.53	143.0			



$$t = 15$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	} Soluble in all proportions
Ethanol	C ₂ H ₆ O	
Chloroform	CHCl ₃	
Ethyl Ether (d = 725)	C ₄ H ₁₀ O	0.302
Ethyl Ether (abs.)	—	Insoluble
Petrol	—	1.26
Petroleum Ether	—	Insoluble
Pentanol	C ₅ H ₁₂ O	0.303
Carbon Disulfide	CS ₂	Insoluble

№ 6328

[2128]

**PILOCARPINE -
SESAME OIL**



Solubility A, g/l.	t
3.142	20

№ 6329

[1772]

**PILOCARPINE HYDROCHLORIDE -
VARIOUS SOLVENTS**



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	76.9	25
Ethanol	C ₂ H ₆ O	4.17	25
"	"	8.33	60
Chloroform	CHCl ₃	0.18	25

№ 6330

[1772]

PILOCARPINE NITRATE - VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	20.0	25
Ethanol	C ₂ H ₆ O	1.63	25
"	"	5.84	60



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.006	17
"	"	0.015	50
"	"	0.034	100
Ethyl Acetate	C ₄ H ₈ O ₂	0.834	17
"	"	1.235	50
Acetone	C ₃ H ₆ O	0.570	17
"	"	1.136	50
Ethanol 96%	C ₂ H ₆ O	0.073	17
"	"	0.104	50
Ethanol	"	0.030	17
"	"	0.117	50
Benzene	C ₆ H ₆	0.0	17
"	"	0.397	50
Chloroform	CHCl ₃	0.0	17
"	"	0.058	50
Ethyl Ether	C ₄ H ₁₀ O	Следы	17
"	"	0.008	34
Pyridine	C ₅ H ₅ N	63.27	17
"	"	82.91	50
Carbon Disulfide	CS ₂	0.0	17
"	"	0.018	35
Carbon Tetrachloride	CCl ₄	0.0	17
"	"	0.062	50
Toluene	C ₇ H ₈	0.131	17
"	"	0.292	50



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.0082	13.5
"	"	0.0103	50
"	"	0.0202	100
Ethyl Acetate	C ₄ H ₈ O ₂	0.100	15
"	"	0.516	50
Acetone	C ₃ H ₆ O	3.288	15
"	"	6.144	50
Methanol	CH ₄ O	0.100	15
"	"	0.516	50
Ethanol 96%	C ₂ H ₆ O	0.040	15
"	"	0.232	50
Ethanol	"	0.063	15
"	"	0.212	50
Benzene	C ₆ H ₆	0.318	15
"	"	0.988	50

Solvent		Solubility A, Wt. %	t
Name	Formula		
Chloroform	CHCl ₃	0.201	15
"	"	0.478	50
Ethyl Ether	C ₄ H ₁₀ O	0.024	15
"	"	0.104	35
Pyridine	C ₅ H ₅ N	6.373	15
"	"	11.09	50
Carbon Disulfide	CS ₂	0.015	15
"	"	0.033	37
Carbon Tetrachloride	CCl ₄	0.020	15
"	"	0.040	50
Toluene	C ₇ H ₈	0.359	15
"	"	0.705	50

№ 6333

[1443]

**DIBENZOFURAN –
DIPHENYLAMINE**
C₁₂H₈O – C₁₂H₁₁N

Mutual Solubility, Mol. %		m.p.
A	B	
0.0	100.0	52.8
10.0	90.0	48.3
20.0	80.0	43.1
30.0	70.0	39.4
40.0	60.0	39.4
50.0	50.0	49.5
60.0	40.0	57.3
70.0	30.0	65.1
80.0	20.0	71.7
90.0	10.0	77.0
100.0	0.0	81.9

№ 6334

[1443]

**PHENOXTIN –
DIPHENYLAMINE**
C₁₂H₈OS – C₁₂H₁₁N

Mutual Solubility, Mol. %		m.p.
A	B	
0.0	100.0	52.8
10.0	90.0	48.4
20.0	80.0	43.6
30.0	70.0	38.4
40.0	60.0	32.6
44.5	55.5	30.8
50.0	50.0	26.7
60.0	40.0	34.1
70.0	30.0	40.5
80.0	20.0	45.9
100.0	0.0	55.4

№ 6335

FLUORENE – CARBAZOLE
C₁₂H₁₀ – C₁₂H₉N

[87]

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.00	100.00	244.0	88.38	11.62	141.5
29.44	70.56	218.0	92.22	7.78	131.4
39.10	60.90	210.7	94.77	5.23	127.1
55.13	44.87	192.0	96.12	3.88	123.3
65.12	34.88	179.0	97.70	2.30	119.0
75.50	24.50	164.5	98.52	1.48	117.0
80.88	19.12	153.2	100.00	0.00	114.0
85.18	14.82	148.7			

№ 6336

[496]

CARBAZOLE – BENZINE* $C_{12}H_9N$ — —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.11	99.89	15.5
0.12	99.88	30
0.16	99.84	50

№ 6337

[496]

CARBAZOLE – HYDROCARBON BLENDS** $C_{12}H_9N$ — —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
11.07	88.93	15.5
14.46	85.54	30
21.10	78.90	50
40.05	59.95	80

№ 6338

[496]

CARBAZOLE – HYDROCARBON BLENDS*** $C_{12}H_9N$ — —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
2.65	97.35	15.5
3.94	96.06	30
9.56	90.44	50
14.19	85.81	80
18.61	81.39	100

№ 6339

[496]

CARBAZOLE – PETROLEUM FRACTION (CRUDE) $C_{12}H_9N$ — —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.54	99.46	15.5
0.93	99.07	30
1.67	98.33	50
3.70	96.30	80
6.54	93.46	100

№ 6340

CARBAZOLE – PETROLEUM FRACTION

[496]

 $C_{12}H_9N$ — —

Mutual Solubility, Wt.%		<i>t</i>	Mutual Solubility, Wt.%		<i>t</i>
A	Heavy Petroleum fraction ****		A	Heavy Petroleum fraction *****	
0.48	99.52	15.5	0.48	99.52	15.5
0.70	99.30	30	0.74	99.26	30
1.35	98.65	50	1.50	98.50	50
2.91	97.09	80	3.50	96.50	80
3.59	96.41	100	4.49	95.51	100

* Gasoline fraction; b.p. 90 – 164°, *d* 0.742** Hydrocarbon blend from coal-tar; b.p. 125 – 150°, *d* 0.952.*** Hydrocarbon blend from coal-tar; b.p. 202 – 247°, *d* 1.057.**** Petroleum fraction; b.p. 152 – 179°, *d* 0.893***** Petroleum fraction; b.p. 145 – 166°, *d* 0.865.***** Petroleum fraction; b.p. 165 – 185°, *d* 0.909.



Mutual Solubility, Mol. %		m.p.	Mutual Solubility, Mol. %		m.p.
A	B		A	B	
0.0	100.0	52.8	50.0	50.0	144.4
3.0	97.0	51.1	90.0	10.0	178.4
10.0	90.0	66.4	100.0	0.0	185.1
20.0	80.0	95.1			



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.0038	15
"	"	0.0084	50
"	"	0.0143	100
Ethyl Acetate	C ₄ H ₈ O ₂	2.266	15
"	"	5.754	50
Acetone	C ₃ H ₆ O	3.628	15
"	"	10.39	50
Methanol	CH ₄ O	0.126	15
"	"	0.607	50
Ethanol 96%	C ₂ H ₆ O	0.088	15
"	"	0.046	50
Ethanol	"	1.283	15
"	"	4.571	50
Benzene	C ₆ H ₆	2.074	15
"	"	6.522	50
Chloroform	CHCl ₃	5.505	15
"	"	9.618	50
Ethyl Ether	C ₄ H ₁₀ O	0.376	15
"	"	0.723	30
Pyridine	C ₅ H ₅ N	10.19	15
"	"	22.28	50
Carbon Disulfide	CS ₂	0.244	15
"	"	0.564	32
Carbon Tetrachloride	CCl ₄	0.168	15
"	"	0.649	50
Toluene	C ₇ H ₈	1.883	15
"	"	5.973	50

№ 6343

ACENAPHTHENE – FLUORENE

[79]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	113	55	45	67
10	90	106	60	40	71
20	80	99	65	35	75
30	70	91.5	70	30	78.5
40	60	84	80	20	83
45	55	79	90	10	90.5
50	50	73	100	0	95

№ 6344

PHENANTHRENE – ACENAPHTHENE

[79]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	95	55	45	60
10	90	92	60	40	65
20	80	87	70	30	76
30	70	80	80	20	83
40	60	72.5	90	10	91
45	55	68.5	100	0	101
50	50	62			

№ 6345

ACENAPHTHENE – FLUORANTHENE

[80]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	110.0	55	45	70.0
10	90	101.0	60	40	72.0
20	80	92.0	70	30	78.0
30	70	83.5	80	20	85.0
40	60	75.5	90	10	90.0
45	55	70.0	100	0	95.0
50	50	66.0			

№ 6346

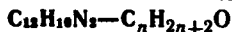
FLUORANTHENE – ACENAPHTHENE

[90]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	95.1	50.58	49.42	61.8
10.51	89.49	89.1	55.95	44.05	67.6
20.35	79.65	84.9	66.82	33.18	77.5
35.19	64.81	75.0	79.73	20.27	90.2
45.45	54.55	66.2	85.21	14.79	95.6
49.63	50.37	62.1	100.00	0.00	110.0

№ 6347 **AZO BENZENE - VARIOUS ALCOHOLS** [175]



B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	3.8	9.5
"	"	3.95	10.5
Ethanol	C ₂ H ₆ O	5.29	9.5
"	"	5.88	10.5
1-Propanol	C ₃ H ₈ O	5.42	9.5
"	"	6.02	10.5

№ 6348

AZO BENZENE - RUBBER

[407]



Mutual Solubility Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
30.0	70.0	43.4	80.0	20.0	67.2
40.0	60.0	52.1	90.0	10.0	68.6
50.0	50.0	59.2	95.0	5.0	68.6
60.0	40.0	63.1	98.0	2.0	68.95
70.0	30.0	65.7	100.0	0.0	69.0
75.0	25.0	66.2			

№ 6349 **AZO BENZENE - VARIOUS SOLVENTS** [1514]



t = 20

Solvent		Solubility A, Wt. %
Name	Formula	
Carbon Tetrachloride	CCl ₄	2.75
Chloroform	CHCl ₃	13.97

№ 6350

**AZO BENZENE -
VARIOUS SOLVENTS**



t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Pentanol Acetate	C ₇ H ₁₄ O ₂	30.60
Methyl Butanoate	C ₅ H ₁₀ O ₂	38.35
Methyl Formate	C ₂ H ₄ O ₂	31.79

№ 6351

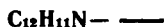
**AZO BENZENE -
VARIOUS SOLVENTS**



t = 25

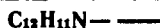
Solvent		Solubility A, Wt. %
Name	Formula	
Benzene	C ₆ H ₆	35.0
Pyridine	C ₅ H ₅ N	50.9
Decane	C ₁₀ H ₂₂	15.6
Hexadecane	C ₁₆ H ₃₄	12.2

DIPHENYLAMINE — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Ethyl Acetate	C ₄ H ₈ O ₂	57.48	0
" "	"	75.41	28
Acetone	C ₃ H ₆ O	70.57	0
"	"	74.91	28
Methanol	CH ₄ O	21.08	0
"	"	55.15	28
"	"	83.78	40
Benzene	C ₆ H ₆	52.53	0
"	"	73.54	28
"	"	80.64	40
Chloroform	CHCl ₃	46.39	0
"	"	67.35	28
Ethyl Ether	C ₄ H ₁₀ O	58.43	0
" "	"	76.45	28
Pyridine	C ₅ H ₅ N	68.51	0
"	"	75.42	28
"	"	80.97	40
Carbon Disulfide	CS ₂	52.93	0
" "	"	75.85	28
Carbon Tetrachloride	CCl ₄	21.71	0
"	"	55.08	28
Toluene	C ₇ H ₈	46.18	0
"	"	69.48	28
"	"	75.94	40
1, 3-Dimethylbenzene	C ₈ H ₁₀	33.32	0
" "	"	61.99	28
" "	"	71.25	40

DIPHENYLAMINE — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.03	20—25
Methanol	CH ₄ O	31.13	14.5
"	"	36.51	19.5
Ethanol	C ₂ H ₆ O	28.26	14.5
"	"	35.90	19.5
1-Propanol	C ₃ H ₈ O	22.72	14.5
Pyridine	C ₅ H ₅ N	75.12	20—25

№ 6354 ETHANOLAMMONIUM 2, 4 - DINITRO- [1178]
 1 - NAPHTHOL - 7 - SULFONATE - VARIOUS ACOHOLS
 $C_{12}H_{11}N_2O_6S - C_nH_{2n+2}O$

B		Solubility A, g/l.	t
Name	Formula		
Ethanol 95%	C_2H_6O	2.45	3
"	"	6.80	30
1 - Butanol	$C_4H_{10}O$	0.14	3
"	"	0.28	30

№ 6355 FLUORENE - 2, 7 - DIMETHYLNAPHTHALENE [86]
 $C_{12}H_{10} - C_{12}H_{12}$

Mutual Solubility Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	97.0	51.56	48.44	69.5
14.40	85.60	88.4	57.10	42.90	75.1
27.28	72.72	79.5	61.77	38.23	80.5
32.40	67.60	74.5	71.80	28.20	90.6
37.20	62.80	69.8	81.15	18.85	98.5
41.68	58.32	64.5	90.05	9.95	106.5
43.55	56.45	62.0	100.00	0.00	114.0
46.80	53.20	65.0			

№ 6356 FLUORANTHENE - 2, 7 - DIMETHYLNAPHTHALENE [90]
 $C_{16}H_{10} - C_{12}H_{12}$

Mutual Solubility Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	97.0	57.32	42.68	67.5
10.62	89.38	92.1	65.28	34.72	76.1
25.31	74.69	24.9	72.64	27.36	83.2
35.21	64.79	79.4	80.20	19.80	90.6
46.42	53.58	71.0	89.15	10.85	99.4
54.70	45.30	66.0	100.00	0.00	110.0

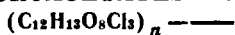
№ 6357 METHYLURONIUM 2, 4 - DINITRO - 1 - NAPHTHOL - [1178]
 7 - SULFONATE - VARIOUS ACOHOLS
 $C_{12}H_{12}N_4O_6S - C_nH_{2n+2}O$

B		Solubility A, g/l.	t
Name	Formula		
Ethanol 95%	C_2H_6O	36.0	30
1 - Butanol	$C_4H_{10}O$	0.66	3
"	"	1.4	30

№ 6358

[1296]

CELLULOSE CHLOROACETATES – VARIOUS SOLVENTS

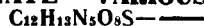


Solvent		Solubility A, g/l.	t
Name	Formula		
Pentyl Benzoate	$C_{12}H_{16}O_2$	50	90
Benzyl Alcohol	C_7H_8O	50	57
Tolyl Alcohol	$C_8H_{10}O$	50	75
Methyl Butanoate	$C_7H_{10}O_2$	50	< -65
Tolyl Ethyl Ethers	$C_9H_{12}O$	50	110
Cresyl Methyl Ethers	$C_8H_{10}O$	50	125
Tolyl Methyl Ethers	$C_7H_{14}O_2$	50	70
Pentyl Acetate	$C_8H_{12}O_2$	50	-60
4-Hydroxy-4-methyl-2-pentanone	$C_6H_{12}O_2$	50	27

№ 6359

[1178]

METHYLGUANIDINIUM 2, 4-DINITRO-1-NAPHTHOL-7-SULFONATE – VARIOUS SOLVENTS

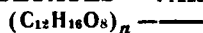


Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H_2O	2.53	3
"	"	5.7	30
Ethanol 95%	C_2H_6O	2.6	3
"	"	4.7	30
1-Butanol	$C_4H_{10}O$	0.33	3
"	"	0.35	30

№ 6360

CELLULOSE ACETATES – VARIOUS SOLVENTS

[1296]



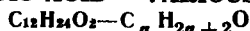
Solvent		Solubility A, g/l.	t
Name	Formula		
Benzyl Alcohol	C_7H_8O	50	25
"	"	50	35
Cyclohexanol	$C_6H_{12}O$	50	95
o-Methylcyclohexanol	$C_8H_{16}O$	50	109
p- " "	"	50	115
m- " "	"	50	123
Cyclohexanone	$C_6H_{10}O$	50	-17
Cresyl Acetate	$C_9H_{10}O_2$	50	42
Phenyl Acetate	$C_8H_8O_2$	50	33
Tolyl Alcohol	$C_8H_{10}O$	50	47



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
3.88	96.12	-1.97	30.94	69.06	-5.70
11.64	88.36	-2.60	36.82	63.18	-7.57
18.66	81.34	-3.47	42.86	57.14	-10.30
25.16	74.84	-4.72	50.00	50.00	-14.32



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.0	43.35	54.72	45.28	45.57
5.32	94.68	40.55	56.31	43.69	46.45
10.87	89.13	38.26	58.06	41.94	47.28
16.17	83.83	36.90	59.96	40.04	48.05
20.32	79.68	36.33	61.41	38.59	48.70
24.64	74.36	35.50	63.24	36.76	49.45
28.39	71.61	36.34	65.40	34.60	50.45
31.95	68.05	37.12	67.60	32.40	51.26
34.97	65.03	37.60	69.91	30.09	52.10
37.65	62.35	38.03	72.62	27.38	53.12
42.02	57.98	39.15	75.66	24.34	54.15
44.32	55.68	40.55	78.83	21.17	55.22
46.22	53.78	41.70	82.04	17.96	56.16
47.83	52.17	42.63	85.59	14.41	57.16
49.09	50.91	42.78	89.87	10.13	58.40
51.45	48.55	43.00	94.0	6.0	59.48
51.92	48.08	43.53	100.0	0.0	60.95
52.16	47.84	44.08			



B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	14.8	0
"	"	58.6	21
Ethanol	C ₂ H ₆ O	20.5	0
"	"	57.3	21
1-Propanol	C ₃ H ₈ O	21.5	0
"	"	52.6	21
2-Methyl-1-propanol	C ₄ H ₁₀ O	18.4	0
"	"	49.7	21

№ 6364

[263]

**THIOPHOSPHORYL TRIMORPHOLIDE —
VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.321
Chloroform	CHCl ₃	32.07
Carbon Tetrachloride	CCl ₄	1.32

№ 6365

[263]

**PHOSPHORYL TRIMORPHOLIDE —
VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	60.7
Chloroform	CHCl ₃	36.64
Carbon Tetrachloride	CCl ₄	0.70

№ 6366

PHENANTHRENE — FLUORENE

[79]



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	113.5	55	45	97.5
10	90	110	60	40	97.8
20	80	107	70	30	98
30	70	104	80	20	99
40	60	102.5	90	10	100
50	50	98.5	100	0	101
52	48	98			

№ 6367

FLUORENE – ANTHRACENE

[87]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	216.0	89.33	10.67	117.6
20.60	79.40	200.3	90.15	9.85	117.0
33.02	66.98	189.1	91.65	8.35	116.5
48.99	51.01	173.0	93.07	6.93	114.9
64.23	35.77	153.5	95.20	4.80	114.6
73.21	26.79	141.1	96.97	3.03	114.4
83.54	16.46	127.0	100.00	0.00	114.0
87.85	12.15	120.0			

№ 6368

FLUORENE – PHENANTHRENE

[87]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	99.0	50.06	49.94	100.2
10.09	89.91	98.0	60.82	39.18	101.8
20.50	79.50	98.5	69.90	30.10	103.7
29.89	70.11	99.0	77.64	22.36	104.5
39.56	60.44	99.7	90.04	9.96	110.0
43.00	57.00	100.0	100.00	0.00	113.6

№ 6369

FLUORANTHENE – FLUORENE

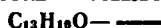
[90]



Mutual Solubility, Wt.%		m.p.	Mutual Solubility, Wt.%		m.p.
A	B		A	B	
0.00	100.00	114.0	57.86	42.14	69.9
11.85	88.15	107.5	61.83	38.17	74.7
22.78	77.22	100.0	67.02	32.98	79.4
34.10	65.90	90.5	74.40	25.60	86.8
43.00	57.00	80.6	82.73	17.27	94.9
52.00	48.00	72.1	92.06	7.94	103.1
56.74	43.26	69.0	100.00	0.00	110.0



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	110.0	50	50	81.0
10	90	105.0	55	45	85.0
20	80	98.0	60	40	88.0
30	70	88.0	70	30	95.0
40	60	78.0	80	20	102.0
43	57	75.5	90	10	108.5
45	55	77.0	100	0	113.0



Solvent		Solubility A, g/l.	t
Name	Formula		
Methanol	CH ₄ O	110	9.8
"	"	143	15.0
Carbon Disulfide	CS ₂	666	16.1
Ethyl Ether	C ₄ H ₁₀ O	175	12.7
Benzene	C ₆ H ₆	769	17
Dimethylbenzene	C ₈ H ₁₀	384	17.6
Nitrobenzene	C ₆ H ₅ NO ₂	588	15.8
Chloroform	CHCl ₃	555	16.5
Tri bromomethane	CHBr ₃	333	17.3
Toluene	C ₇ H ₈	555	17.2
Ligroin	—	67	14.6



Solvent		Solubility A, Wt. %	t	d ₄ ^t
Name	Formula			
Acetone	C ₃ H ₆ O	90.99	30—31	—
Benzene	C ₆ H ₆	88.57	30—31	1.148
Pentyl Acetate	C ₇ H ₁₄ O ₂	85.29	30—31	1.136
1-Pentanol	C ₅ H ₁₂ O	20.44	25	0.869
Acetic Acid 99.5%	C ₂ H ₄ O ₂	63.24	21.5	1.143
Dimethylbenzene	C ₈ H ₁₀	87.14	32.5	—
Toluene	C ₇ H ₈	83.62	25	1.128

№ 6373 PHENYL o-HYDROXYBENZOATE — [2027]

BENZENE



Solubility A, Wt. %	<i>t</i>
47.6	25

№ 6374

[1178]

TRIMETHYLAMMONIUM 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE — VARIOUS SOLVENTS

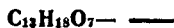
Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	47.0	3
Ethanol 95%	C ₂ H ₆ O	4.4	3
" "	"	7.27	30
1-Butanol	C ₄ H ₁₀ O	0.12	3
"	"	0.41	30

№ 6375

[1178]

DIMETHYLGUANIDINIUM 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE — VARIOUS SOLVENTS

Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	1.85	3
Ethanol 95%	C ₂ H ₆ O	1.30	3
" "	"	3.20	30
1-Butanol	C ₄ H ₁₀ O	0.21	3
"	"	0.30	30

SALICIN – VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H ₂ O	3.4	15
"	"	3.99	25
Ethanol 90%	C ₂ H ₆ O	1.48	15
" "	"	1.96	15
Trichloroethylene	C ₂ HCl ₃	0.013	15

№ 6377

[2128]

PROCAINE – SESAME OIL

Solubility A, g/l.	<i>t</i>
42.9	20

№ 6378

[1514]

№ 6379

[840]

**N, N - DIPHENYLUREA –
VARIOUS SOLVENT***t* = 20

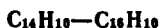
Solvent		Solubility A, Wt. %
Name	Formula	
Chloroform	CHCl ₃	7.69
Carbon Tetra- chloride	CCl ₄	1.54

**DICHLORODIPHENYLTRICHLORO-
ETHANE (D.D.T.) –
PETROLEUM ETHER**

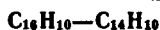
Mutual Solubility, Wt. %		<i>t</i>
A	B	
1.7	98.3	0.0
2.4	97.6	7.2
4.8	95.2	24.0

ANTHRACENE – PHENANTHRENE

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	99.0	45.05	54.95	165.2
4.45	95.55	103.0	50.55	49.45	173.0
10.40	89.60	110.5	60.31	39.69	183.0
14.98	85.02	120.0	71.12	28.88	192.0
20.00	80.00	129.7	80.37	19.63	200.0
24.75	75.25	137.5	90.25	9.75	209.0
29.90	70.10	145.1	100.00	0.00	216.0

PHENANTHRENE – FLUORANTHRENE

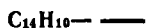
Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0	100	110.0	53	47	76.0
10	90	104.0	55	45	76.5
20	80	97.0	60	40	79.0
30	70	90.0	70	30	85.0
40	60	83.5	80	20	89.0
45	55	80.0	90	10	95.5
50	50	76.5	100	0	101.0

FLUORANTHRENE – ANTHRACENE

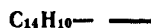
Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	216.5	85.48	14.52	114.1
19.82	80.18	201.9	87.37	12.63	107.0
29.44	70.56	194.2	88.40	11.60	101.0
38.50	61.50	186.5	89.59	10.41	101.8
48.71	51.29	176.2	91.60	8.40	103.3
59.62	40.38	162.0	93.78	6.22	104.6
69.86	30.14	146.7	100.00	0.00	110.0
82.26	17.74	122.5			



Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
0.00	100.00	99.3	51.15	48.85	74.3
7.26	92.74	95.5	59.60	40.40	80.2
17.36	82.64	90.6	67.32	32.68	85.3
32.10	67.90	82.1	76.20	23.80	91.8
42.10	57.90	76.4	90.75	9.25	102.5
49.17	50.83	73.0	100.00	0.00	110.0

ANTHRACENE – SOLVENT*
 (purified)


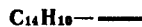
Mutual Solubility, Wt. %		t
A	B	
0.46	99.54	15.5
1.40	98.60	30
2.82	97.18	50
6.18	93.82	80
9.17	90.83	100

ANTHRACENE – SOLVENT**
 (crude)


Mutual Solubility, Wt. %		t
A	B	
0.50	99.50	15.5
1.68	98.32	30
3.15	96.85	50
6.72	93.28	80
8.10	91.90	100

PHENANTHRENE – PETROLEUM
SOLVENT* (purified)


Mutual Solubility, Wt. %		t
A	B	
11.13	88.87	15.5
18.31	81.69	30
23.55	76.45	50
45.89	54.11	80

PHENANTHRENE – PETROLEUM
SOLVENT (crude)**


Mutual Solubility, Wt. %		t
A	B	
13.27	86.73	15.5
24.13	75.87	30
42.60	57.40	50
70.84	29.16	80

* Petroleum fraction; b.p. 145 – 166°, d 0.865.

** Petroleum fraction; b.p. 152 – 179°, d 0.893.

C₁₄H₁₀— —

Mutual Solubility Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
0.79	99.21	—10	4.76	95.24	15
1.57	98.43	—5	6.19	93.81	20
2.34	97.66	0	7.75	92.25	25
3.10	96.90	5	9.58	90.42	30
3.85	96.15	10			

ANTHRACENE — HEAVY NAPHTHA**

C₁₄H₁₀— —

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.32	99.68	15.5
1.33	98.67	30
3.01	96.99	50
7.11	92.89	80
9.53	90.47	100

PHENANTHRENE — HEAVY
NAPHTHA***C₁₄H₁₀— —

Mutual Solubility, Wt. %		<i>t</i>
A	B	
10.67	89.33	15.5
17.56	82.44	30
37.61	62.39	50
65.87	34.13	80

ANTHRACENE — HYDROCARBON
BLENDS****C₁₄H₁₀— —

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.83	99.17	15.5
2.10	97.90	30
3.94	96.06	50
10.09	89.91	80
14.33	85.67	100

ANTHRACENE — HYDROCARBON
BLENDS****C₁₄H₁₀— —

Mutual Solubility Wt. %		<i>t</i>
A	B	
0.38	99.62	15.5
1.38	98.62	30
2.89	97.11	50
7.30	92.70	80
9.11	91.89	100

* Petroleum fraction; b.p. 60 — 85°.

** Petroleum fraction; b.p. 165 — 185°, *d* 0.909.*** Petroleum fraction; b.p. 165 — 185°, *d* 0.909.**** Hydrocarbon blend from coal-tar; b.p. 125 — 150°, *d* 0.952.***** Hydrocarbon blend from coal-tar; b.p. 202 — 247°, *d* 1.057.

№ 6392 [496]
PHENANTHRENE – HYDROCARBON
BLENDS*
 $C_{14}H_{10}$ —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
20.34	79.66	15.5
27.54	72.46	30
44.10	55.90	50
70.67	29.33	80

№ 6393 [496]
PHENANTHRENE – HYDROCARBON
BLENDS*
 $C_{14}H_{10}$ —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
16.67	83.33	15.5
19.68	80.32	30
39.28	60.72	50
64.53	35.47	80

№ 6394 [496]
ANTHRACENE – BENZINE***
 $C_{14}H_{10}$ —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
0.12	99.88	15.5
0.37	99.63	30
0.75	99.25	50

№ 6395 [496]
PHENANTHRENE – BENZINE****
 $C_{14}H_{10}$ —

Mutual Solubility, Wt.%		<i>t</i>
A	B	
4.33	95.67	15.5
5.93	94.07	30

№ 6396 [175]
PHENANTHRENE – VARIOUS ACIDS
 $C_{14}H_{10}-C_n H_{2n} O_2$

B		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Acetic Acid	$C_2H_4O_2$	8.31	23
" "	"	9.8	39
" "	"	34.6	70.5
Butanoic Acid	$C_4H_8O_2$	15.6	23
" "	"	21.0	39
Propanoic Acid	$C_3H_6O_2$	17.0	23
" "	"	21.4	39
" "	"	40.3	62.4
2-Methylpropanoic Acid	$C_4H_8O_2$	12.3	23
Pentanoic Acid	$C_5H_{10}O_2$	16.6	39

* Hydrocarbon blend from coal-tar; b.p. 125 – 150°, d 0.952.

** Hydrocarbon blend from coal – tar; b.p. 220 – 247°, d 1.057.

*** Gasoline; b.p. 90 – 164°, d 0.742.

**** Gasoline; b.p. 90 – 164°, d 0.742.

ANTHRACENE – VARIOUS SOLVENTS

 $C_{14}H_{10}$ —

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethanol	C_2H_6O	0.076	16
"	"	0.823	78.4
Methanol	CH_4O	1.77	19.5
Formic Acid 95%	CH_2O_2	0.03	18.3
Toluene	C_7H_8	0.91	16.5
"	"	11.46	100
Trichloroethylene	C_2HCl_3	1.00	15

ANTHRACENE – VARIOUS SOLVENTS

 $C_{14}H_{10}$ —*t* = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.326
Benzene	C_6H_6	1.826
Carbon Disulfide	CS_2	2.515
Carbon Tetrachloride	CCl_4	0.727
Ethyl Ether	$C_4H_{10}O$	1.400
Hexane	C_6H_{14}	0.368

PHENANTHRENE – VARIOUS SOLVENTS

 $C_{14}H_{10}$ —*t* = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	4.68
Benzene	C_6H_6	37.30
Carbon Disulfide	CS_2	44.54
Carbon Tetrachloride	CCl_4	20.82
Ethyl Ether	$C_4H_{10}O$	30.02
Hexane	C_6H_{14}	8.38

№ 6400

[1808]

**α - PHENYLGLYOXAL PHENYLHYDRAZONE -
VARIOUS SOLVENTS**



$$t = 32$$

Solvent		Solubility A, Wt. %
Name	Formula	
Benzene	C_6H_6	25.1
Heptane	C_7H_{16}	1.7
Carbon Tetrachloride	CCl_4	8.8
Cyclohexane	C_6H_{12}	2.5

№ 6401

[1808]

**β - PHENYLGLYOXAL PHENYLHYDRAZONE -
VARIOUS SOLVENTS**



$$t = 32$$

Solvent		Solubility A, Wt. %
Name	Formula	
Benzene	C_6H_6	8.0
Heptane	C_7H_{16}	0.55
Carbon Tetrachloride	CCl_4	2.27
Cyclohexane	C_6H_{12}	1.56

№ 6402

[1178]

**CREATININE 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE - VARIOUS SOLVENTS**



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H_2O	2.65	3
"	"	4.54	30
Ethanol 95%	C_2H_5O	1.08	3
" "	"	1.52	30
1 - Butanol	$C_4H_{10}O$	0.09	3
"	"	0.43	30

№ 6403

[1178]

**TETRAMETHYLAMMONIUM 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE - VARIOUS SOLVENTS**



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	4.9	3
"	"	12.8	30
Ethanol 95%	C ₂ H ₆ O	0.61	3
"	"	1.52	30
1-Butanol	C ₄ H ₁₀ O	0.04	3
"	"	0.05	30

№ 6404

[1178]

**PUTRESCINE 2, 4 DINITRO - 1 - NAPHTHOL - 7 - SULFONATE -
VARIOUS SOLVENTS**



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	0.25	3
Ethanol 95%	C ₂ H ₆ O	0.31	3
"	"	0.46	30
1-Butanol	C ₄ H ₁₀ O	0.06	30

№ 6405

[263]

**PHENYL-DI(MORPHOLIDO)PHOSPHATE -
VARIOUS SOLVENTS**



t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	70.2
Chloroform	CHCl ₃	58.0
Carbon Tetrachloride	CCl ₄	16.4

№ 6406

[175]

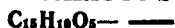
TETRADECANOIC ACID – VARIOUS ALCOHOLS

B		Solubility A, Wt.%	t
Name	Formula		
Methanol	CH ₄ O	2.81	0
"	"	21.2	21
"	"	59.2	31.5
Ethanol	C ₂ H ₆ O	7.14	0
"	"	31.0	21
1-Propanol	C ₃ H ₈ O	5.6	0
"	"	31.2	21
"	"	55.3	36.5
2-Methyl-1-propanol	C ₄ H ₁₀ O	6.4	0
"	"	28.0	21

№ 6407

EMODIN – VARIOUS SOLVENTS

[303]



t = 20

Solvent		Solubility A, g/l
Name	Formula	
Benzene	C ₆ H ₆	0.405
Carbon Tetrachloride	CCl ₄	0.102
Carbon Disulfide	CS ₂	0.088
Chloroform	CHCl ₃	0.705
Ethyl Ether	C ₄ H ₁₀ O	1.400

№ 6408

[2051]

QUERCETIN – VARIOUS SOLVENTS

t = 16

Solvent		Solubility A, Wt.%
Name	Formula	
Water	H ₂ O	0.006
Ethanol 49%	C ₂ H ₆ O	0.029
Ethanol 95%	"	1.419
Ethyl Ether	C ₄ H ₁₀ O	0.211
Methanol	CH ₄ O	1.30
Methanol 50%	"	0.027

№ 6409

[1178]

**HYPOXANTHINE 2, 4 - DINITRO - 1 - NAPHTHOL -
7 - SULFONATE - VARIOUS SOLVENTS**

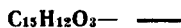


Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	1.3	3
"	"	3.6	30
Ethanol 95%	C ₂ H ₆ O	0.95	3
"	"	3.36	30
1-Butanol	C ₄ H ₁₀ O	0.34	3
"	"	0.40	30

№ 6410

[1978]

CHRYSAROBIN - VARIOUS SOLVENTS

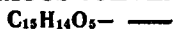


Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	0.021	25
"	"	0.046	80
Ethanol	C ₂ H ₆ O	0.322	25
"	"	0.361	60
Benzene	C ₆ H ₆	3.846	25
Chloroform	CHCl ₃	5.258	25
Ethyl Ether	C ₄ H ₁₀ O	0.865	25
1-Pentanol	C ₅ H ₁₂ O	3.222	25
Carbon Disulfide	CS ₂	0.428	25

№ 6411

[1978]

**o - METHOXYPHENOL CARBONATE -
VARIOUS SOLVENTS**



t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	2.04
Chloroform	CHCl ₃	39.98
Ethyl Ether	C ₄ H ₁₀ O	7.14

№ 6412

[1178]

**PIPERIDINIUM 2, 4-DINITRO-1-NAPHTHOL-
7-SULFONATE - VARIOUS SOLVENTS**

$C_{15}H_{17}N_2O_8S$ — —

Solvent		Solubility A, g/l.	<i>t</i>
Name	Formula		
Water	H ₂ O	4.0	3
Ethanol 95%	C ₂ H ₆ O	3.3	3
"	"	1.3	30
1-Butanol	C ₄ H ₁₀ O	0.13	3
"	"	0.35	30

№ 6413

[816, 2051]

SANTONIN - VARIOUS SOLVENTS

$C_{15}H_{16}O_2$ — —

t = 15

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol 90%	C ₂ H ₆ O	2.25
Trichloroethylene	C ₂ HCl ₃	2.40

№ 6414

[2027]

SANTONIN - VARIOUS SOLVENTS

$C_{15}H_{16}O_2$ — —

t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Benzene	C ₆ H ₆	4.94
Carbon Tetrachloride	CCl ₄	0.3
Petroleum Ether	—	0.015

№ 6415

[1178]

**CHOLINE 2, 4-DINITRO-1-NAPHTHOL-7-SULFONATE -
VARIOUS ALCOHOLS**

$C_{15}H_{19}N_2O_8S - C_n H_{2n+2}O$

B		Solubility A, g/l.	<i>t</i>
Name	Formula		
Ethanol 95%	C ₂ H ₆ O	2.81	3
1-Butanol	C ₄ H ₁₀ O	0.17	3
"	"	0.20	30

№ 6416

[2128]

β-EUCAINE - SESAME OIL

Solubility A, g/l.	t
34.9	20

№ 6417

[1196]

ATOPHAN - VARIOUS SOLVENTS

t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.0160
Ethanol 95%	C ₂ H ₆ O	0.8343
Ethanol 48%		0.0875
Chloroform	CHCl ₃	0.1075

№ 6418

— [639]

1,3-DIPHENYL-2-BROMO-3-METHOXY-2-PROPENE-1-ONE - LIGROIN

t = 19

Solubility A, Wt. %	
isomer, m.p. 120°	isomer, m.p. 71 - 72°
2.84	2.24

№ 6419

[263]

DIPHENYLMORPHOLIDOPHOSPHATE - VARIOUS SOLVENTS

t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.230
Chloroform	CHCl ₃	41.8
Carbon Tetra- chloride	CCl ₄	5.90

* b.p. 80 - 85°.

№ 6420 [20]

**DIBUTYL PHTHALATE —
SCARLET DYE J FOR
SILK ACETATE**
 $C_{18}H_{22}O_4 - C_{18}H_{19}N_4O_2$

Solubility B, Wt. %	<i>t</i>
0.96	20

№ 6421 [20]

**DIBUTYL PHTHALATE —
BLUE DYE K FOR
SILK ACETATE**
 $C_{18}H_{22}O_4 - C_{17}H_{16}N_2O_2$

Solubility B, Wt. %	<i>t</i>
0.12	20

№ 6422 [20]

**DIBUTYL PHTHALATE —
SUDAN YELLOW DYE U**
 $C_{18}H_{22}O_4 - C_{18}H_{18}N_4O$

Solubility B, Wt. %	<i>t</i>
0.9	20

№ 6423 [20]

**DIBUTYL PHTHALATE —
CYANINE DYE GREEN 5G**
 $C_{18}H_{22}O_4 - C_{28}H_{22}N_2O_4$

Solubility B, Wt. %	<i>t</i>
0.43	20

№ 6424 [20]

**DIBUTYL PHTHALATE —
SUDAN BLUE DYE U**
 $C_{18}H_{22}O_4 - C_{22}H_{18}N_2O_2$

Solubility B, Wt. %	<i>t</i>
0.0528	20

№ 6425 [20]

**DIBUTYL PHTHALATE —
SUDAN RED DYE 7V**
 $C_{18}H_{22}O_4 - C_{24}H_{22}N_2$

Solubility B, Wt. %	<i>t</i>
3.4	20

№ 6426 [20]

**DIBUTYL PHTHALATE —
ACID DYE BRIGHT
GREEN J**
 $C_{18}H_{22}O_4 - C_{27}H_{24}N_2O_4S_2Na$

Solubility B, Wt. %	<i>t</i>
0	20

HEXADECANOIC ACID – OCTADECANOIC ACID

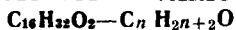


Mutual Solubility, Wt. %		m.p.	Mutual Solubility Wt. %		m.p.
A	B		A	B	
0	100	69.32	60	40	56.11
10	90	67.02	64	36	55.62
20	80	64.51	70	30	54.85
30	70	61.73	75	25	55.46
40	60	58.76	80	20	56.53
45	55	57.20	90	10	59.31
50	50	56.42	100	0	62.62
55	45	56.38			

№ 6428

[175]

HEXADECANOIC ACID – VARIOUS ALCOHOLS

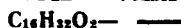


B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	0.72	0
"	"	5.1	21
"	"	29.5	36
Ethanol	C ₂ H ₆ O	2.0	0
"	"	10.1	21
1-Propanol	C ₃ H ₈ O	2.92	0
"	"	13.8	21
2-Methyl-1-propanol	C ₄ H ₁₀ O	2.2	0
"	"	12.8	21

№ 6429

[1128]

HEXADECANOIC ACID – VARIOUS SOLVENTS

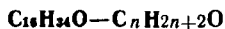


t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Methyl Formate	C ₂ H ₄ O ₂	2.44
Methyl Acetate	C ₃ H ₆ O ₂	7.24
Ethyl Acetate	C ₄ H ₈ O ₂	9.67
Pentyl Acetate	C ₇ H ₁₄ O ₂	14.24
Methyl Propanoate	C ₄ H ₈ O ₂	9.01
Ethyl Propanoate	C ₅ H ₁₀ O ₂	9.50
Methyl Butanoate	"	9.09
Ethyl Butanoate	C ₆ H ₁₂ O ₂	9.50
Propyl Butanoate	C ₇ H ₁₄ O ₂	9.58
Ethyl Ether	C ₄ H ₁₀ O	24.70
Ethanol	C ₂ H ₆ O	9.91
2-Chlorobutanoic Acid	C ₄ H ₇ O ₂ Cl	1.09

№ 6430

[175]

1-HEXADECANOL – VARIOUS ALCOHOLS

B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	49.21	23.9
Ethanol	C ₂ H ₆ O	50.55	23.9
"	"	80.39	37
1-Propanol	C ₃ H ₈ O	80.19	39

№ 6431

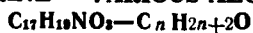
[1978]

**APOMORPHINE HYDROCHLORIDE –
VARIOUS SOLVENTS**

Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	2.47	25
"	"	5.88	80
Ethanol	C ₂ H ₆ O	2.55	25
"	"	3.22	80
Chloroform	CHCl ₃	0.026	25
Ethyl Ether	C ₄ H ₁₀ O	0.053	25

№ 6432

[175]

PIPERINE – VARIOUS ALCOHOLS

$$t = 9.5$$

B		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	2.82
Methanol	CH ₄ O	4.21
1-Propanol	C ₃ H ₈ O	2.86

PIPERINE — VARIOUS SOLVENTS



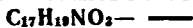
Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	Нерастворим	25
Ethanol	C ₂ H ₆ O	6.24	25
"	"	18.50	60
Chloroform	CHCl ₃	37.03	25
Ethyl Ether	C ₄ H ₁₀ O	2.72	25

MORPHINE — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Ethanol	C ₂ H ₆ O	0.600	25
"	"	1.31	60
Ethyl Ether	C ₄ H ₁₀ O	0.0131	18—22
"	"	0.0224	25
Ethyl Ether (sat. with H ₂ O)	"	0.0094	18—22
H ₂ O (sat. with Ethyl Ether)	H ₂ O	0.0447	18—22
Benzene	C ₆ H ₆	0.0625	18—22
Chloroform	CHCl ₃	0.0655	18—22
"	"	0.0555	25
1-Pentanol	C ₅ H ₁₂ O	0.8810	25
Ethyl Acetate	C ₄ H ₈ O ₂	0.1861	18—22
"	"	0.1905	25
Petroleum Ether	—	0.0854	18—22
Carbon Tetrachloride	CCl ₄	0.0156	18—22
"	"	0.032	17
Glycerol	C ₃ H ₈ O ₃	0.45	15.5

MORPHINE — VARIOUS SOLVENTS



t = 20

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.0254
Carbon Tetrachloride	CCl ₄	0.0504

№ 6436

[839]

MORPHINE – VARIOUS SOLVENTS $C_{17}H_{19}NO_3$ — — $t = 15$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	0.0288
Acetone	C_3H_6O	0.128
50% Acetone + H_2O	$C_3H_6O + H_2O$	0.132

№ 6437

[1711]

MORPHINE – VARIOUS SOLVENTS $C_{17}H_{19}NO_3$ — — $t = 25$

Solvent		Solubility A, g/l.
Name	Formula	
Ethanol	C_2H_6O	3.88
Methanol	CH_4O	66.6
Chloroform	$CHCl_3$	0.4
Benzene	C_6H_6	Insoluble

№ 6438

[1757]

MORPHINE – VARIOUS SOLVENTS $C_{17}H_{19}NO_3$ — — $t = 20$

Solvent		Solubility A, Wt. %
Name	Formula	
Aniline	C_6H_7N	6.1
Pyridine	C_5H_5N	16.0
Piperidine	$C_5H_{11}N$	39.8
Diethylamine	$C_4H_{11}N$	7.41

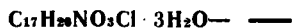
№ 6439

[2022]

APOMORPHINE – OLIVE OIL $C_{17}H_{17}NO_2$ — —

Solubility A, g/l.	t
45	25

**MORPHINE HYDROCHLORIDE –
VARIOUS SOLVENTS**



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	5.49	25
"	"	66.67	80
Ethanol	C ₂ H ₆ O	2.34	25
"	"	2.72	60
Glycerol	C ₃ H ₈ O ₃	16.67	15.5

MORPHINE ACETATE – VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	30.99	25
"	"	33.33	80
Ethanol	C ₂ H ₆ O	4.40	25
"	"	28.57	60
Chloroform	CHCl ₃	0.21	25
Glycerol	C ₃ H ₈ O ₃	16.11	25

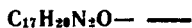
BENZOYL CAMPHOR – VARIOUS SOLVENTS



t = 17

Solvent		Solubility A, Wt. %	
Name	Formula	Enol form	Keto form
Ethanol	C ₂ H ₆ O	3.37	2.95
Acetone	C ₃ H ₆ O	19.0	19.3
Benzene	C ₆ H ₆	37.3	16.9

DIETHYLDIPHENYLUREA — VARIOUS SOLVENTS



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethyl Acetate	$C_4H_8O_2$	26.96	0
" "	"	43.45	20
Acetone	C_3H_6O	25.43	0
"	"	38.87	20
Ethanol	C_2H_6O	22.09	0
"	"	42.09	20
"	"	83.74	50
Methanol	CH_4O	20.13	0
"	"	50.43	20
"	"	88.88	50
Benzene	C_6H_6	37.90	0
"	"	50.38	20
"	"	80.58	50
Chloroform	$CHCl_3$	42.82	0
"	"	59.38	20
Ethyl Ether	$C_4H_{10}O$	23.90	0
" "	"	41.65	20
Pyridine	C_5H_5N	34.55	0
"	"	49.33	20
"	"	81.64	50
Carbon Disulfide	CS_2	22.07	0
"	"	42.55	20
Carbon Tetrachloride	CCl_4	21.67	0
"	"	33.44	20
"	"	64.93	50
Toluene	C_7H_8	31.50	0
"	"	42.16	20
"	"	74.89	50
1,3-Dimethylbenzene	C_8H_{10}	20.93	0
"	"	36.76	20
"	"	81.81	50

COCAINE —
PETROLEUM ETHER

Solubility A, Wt. %	<i>t</i>
2.31	20

COCAINE —
SESAME OIL

Solubility A, g/l.	<i>t</i>
43.4	20

№ 6446

**COCAINE —
OLIVE OIL**

[1978]



Solubility A, Wt.%	<i>t</i>
7.66	25

№ 6447

**COCAINE —
OLIVE OIL**

[2022]



Solubility A, g/l.	<i>t</i>
45	25

№ 6448

**COCAINE — OIL
OF TURPENTINE**

[1978]



Solubility A, Wt.%	<i>t</i>
6.63	25

№ 6449

**dl-HYOSCYAMINE —
OLIVE OIL**

[2022]



Solubility A, g/l.	<i>t</i>
14.0	25

№ 6450

[1418]

dl-HYOSCYAMINE — VARIOUS SOLVENTS*t* = 20

Solvent		Solubility A, Wt.%
Name	Formula	
Water	H ₂ O	1.782
Ethyl Ether	C ₄ H ₁₀ O	2.21
Chloroform	CHCl ₃	68.03
Benzene	C ₆ H ₆	3.99
Carbon Tetrachloride	CCl ₄	0.661
Ethyl Acetate	C ₄ H ₈ O ₂	3.88
Petroleum Ether	—	0.83

№ 6451

[1978]

dl-HYOSCYAMINE — VARIOUS SOLVENTS

Solvent		Solubility A, Wt.%	<i>t</i>
Name	Formula		
Water	H ₂ O	0.221	25
"	"	1.12	80
Ethanol	C ₂ H ₆ O	40.63	25
"	"	52.63	60
Ethyl Ether	C ₄ H ₁₀ O	5.68	25
Chloroform	CHCl ₃	39.06	25
Glycerol	C ₃ H ₈ O ₃	2.91	15

№ 6452

[1738]

dl - HYOSCYAMINE - VARIOUS SOLVENTS $t = 20$

Solvent		Solubility A, Wt. %
Name	Formula	
Aniline	C_6H_7N	25.37
Diethylamine	$C_4H_{11}N$	40.12
Pyridine	C_5H_5N	42.20
Piperidine	$C_5H_{11}N$	53.27

№ 6453

[1418]

HYOSCYAMINE - VARIOUS SOLVENTS $t = 18-22$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	0.355
Ethyl Ether	$C_4H_{10}O$	2.02
Ethyl Ether sat. with H_2O	$C_4H_{10}O$	3.913
H_2O sat. with Ethyl Ether	H_2O	3.125
Benzene	C_6H_6	0.769
Chloroform	$CHCl_3$	Полностью смешиваются
Petroleum Ether	—	0.098
Carbon Tetrachloride	CCl_4	0.059

№ 6454

[1978]

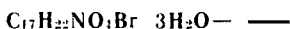
**HYOSCYAMINE HYDROBROMIDE -
VARIOUS SOLVENTS** $t = 25$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	33.33
Ethyl Ether	$C_4H_{10}O$	0.062
Chloroform	$CHCl_3$	28.57

№ 6455

[1978]

**HYOSCINE HYDROBROMIDE –
VARIOUS SOLVENTS**

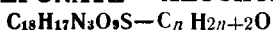


$$t = 25$$

Solvent		Solubility A, Wt.%
Name	Formula	
Water	H ₂ O	39.98
Ethanol	C ₂ H ₆ O	5.84
Chloroform	CHCl ₃	0.133

№ 6456 **TYRAMINE 2, 4 - DINITRO - 1 - NAPHTHOL - 7 -** [1178]

SULFONATE – ALCOHOLS



B		Solubility A, g/1.	t
Name	Formula		
Ethanol 95%	C ₂ H ₆ O	4.40	3
" "	"	10.30	30
1 - Butanol	C ₄ H ₁₀ O	0.34	3
"	"	0.80	30

№ 6457

[2027]

**CODEINE –
PETROLEUM ETHER**



Solubility A, Wt.%	t
0.22	25

№ 6458

[2022]

**CODEINE –
OLIVE OIL**

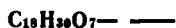


Solubility A, g/1.	t
16.0	25

№ 6459

[1909]

1 - ASCORBYL DODECANOATE – OILS



$$t = 25$$

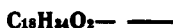
B	Solubility A, Wt.%
Olive Oil	0.11
Cotton Seed Oil	0.08



Mutual Solubility, Wt. %		<i>t</i>	Mutual Solubility, Wt. %		<i>t</i>
A	B		A	B	
54.8	45.2	0	44.7	55.3	50
53.3	46.7	10	41.2	58.8	60
51.6	48.4	20	36.6	63.4	70
49.7	50.3	30	30.5	69.5	80
47.6	52.4	40			



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
trans - Dichloroethylene	$C_2H_2Cl_2$	5.84	0
1, 1 - Dichloroethylene	"	9.88	0
β - Chloroethyl 2 - Butenoate	$C_8H_9O_2Cl$	32.30	24
2 - Butenenitrile	C_4H_5N	10.98	25
cis - 2 - Bromo - 2 - Butene	C_4H_7Br	3.55	0
trans - 2 - Bromo - 2 - Butene	"	3.94	0



Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
cis - Dichloroethylene	$C_2H_2Cl_2$	5.84	0
trans - Dichloroethylene	"	9.89	0
cis - β - Chloroethyl 2 - Butenoate	$C_8H_9O_2Cl$	32.16	20
cis - 2 - Bromo - 2 - butene	C_4H_7Br	3.55	0
trans - 2 - Bromo - 2 - butene	"	3.94	0
2 - Butenenitrile	C_4H_5N	10.98	25

 $t = 25$

Solvent		Solubility A, Wt. %	d_4^{25}
Name	Formula		
Acetone	C_3H_6O	4.73	0.815
3-Methyl-1-butanol	$C_5H_{12}O$	9.43	0.815
Pentyl Acetate	$C_7H_{14}O_2$	11.19	0.867
Carbon Disulfide	CS_2	19.20	1.163
Carbon Tetrachloride	CCl_4	10.25	1.465
Chloroform	$CHCl_3$	15.54	1.332
Ethyl Ether	$C_4H_{10}O$	20.04	0.744
Ethyl Acetate	$C_4H_8O_2$	7.36	0.895
Nitrobenzene	$C_6H_5NO_2$	1.24	1.199
Toluene	C_7H_8	13.61	0.865

THEBAINE – VARIOUS SOLVENTS

 $t = 20$

Solvent		Solubility A, Wt. %
Name	Formula	
Aniline	C_6H_7N	23.08
Pyridine	C_5H_5N	8.26
Piperidine	$C_5H_{11}N$	1.96
Diethylamine	$C_4H_{11}N$	0.70

CINCHONINE – VARIOUS SOLVENTS

 $t = 20$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	0.10
Ethyl Ether sat. with H_2O	"	0.123
H_2O sat. with Ethyl Ether	H_2O	0.025
Benzene	C_6H_6	0.0545
Chloroform	$CHCl_3$	0.6979
Petroleum Ether	—	0.0335
Carbon Tetrachloride	CCl_4	0.0361
Water	H_2O	0.0239
Glycerol	$C_3H_8O_3$	0.50

CINCHONIDINE - VARIOUS SOLVENTS $t = 20$

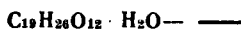
Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	0.211
Ethyl Ether sat. with H_2O	"	0.523
H_2O sat. with Ethyl Ether	H_2O	0.0306
Benzene	C_6H_6	0.099
Chloroform	$CHCl_3$	9.301
Petroleum Ether	—	0.0475
Carbon Tetrachloride	CCl_4	0.0508
Water	H_2O	0.0255

ETHYLMORPHINE - SESAME OIL

Solubility A, g/l.	t
5.144	20

ETHYLMORPHINE - OLIVE OIL

Solubility A, g/l.	t
6.25	20

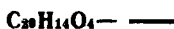
**MONOTROPITOSIDE -
VARIOUS SOLVENTS** $t = 18-20$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	7.48
Ethanol 95%	C_2H_6O	0.661
Ethanol	"	0.342
Chloroform	$CHCl_3$	0.100
Ethyl Acetate	$C_4H_8O_2$	0.172
Acetone	C_3H_6O	0.154
Ethyl Ether	$C_4H_{10}O$	0.008

№ 6470

[2027]

**PHENOLPHTHALEIN —
PETROLEUM ETHER**



Solubility A, Wt. %	<i>t</i>
0.017	25

№ 6471

[1980]

PHENOLPHTHALEIN — VARIOUS SOLVENTS



$$t = 15-20$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.0002
Ethanol	C ₂ H ₆ O	17.29
Methanol	CH ₄ O	12.42
Acetone	C ₃ H ₆ O	20.88
Chloroform	CHCl ₃	2.97
Carbon Disulfide	CS ₂	0.18
Ethyl Ether	C ₄ H ₁₀ O	5.59
Benzene	C ₆ H ₆	0.16
Carbon Tetrachloride	CCl ₄	Следы
Dimethylbenzene	C ₈ H ₁₀	0.18
Toluene	C ₇ H ₈	0.61
Nitrobenzene	C ₆ H ₅ NO ₂	4.22
Ethyl Acetate	C ₄ H ₈ O ₂	6.16

№ 6472

[2128]

**NARCOTINE —
SESAME OIL**



Solubility A, Wt. %	<i>t</i>
0.086	20

№ 6473

[2027]

**NARCOTINE —
PETROLEUM ETHER**



Solubility A, Wt. %	<i>t</i>
0.023	25

№ 6474

**QUININE —
PETROLEUM ETHER**

$C_{20}H_{24}N_2O_2$ — —

Solubility A, Wt. %	<i>t</i>
0.021	20

№ 6475

**QUININE —
SESAME OIL**

$C_{20}H_{24}N_2O_2$ — —

Solubility A, g/l.	<i>t</i>
0.453	20

№ 6476

**QUINIDINE —
PETROLEUM ETHER**

$C_{20}H_{24}N_2O_2$ — —

Solubility A, Wt. %	<i>t</i>
0.024	20

[1418]

№ 6477

QUININE — VARIOUS SOLVENTS

$C_{20}H_{24}N_2O_2$ — —

t = 20

[1418]

Solvent		Solubility A, Wt. %	
Name	Formula	- Hydrate	Anhydrous
Ethyl Ether	$C_4H_{10}O$	1.619	0.876
Ethyl Ether sat. with H_2O	"	5.618	2.794
H_2O sat. with Ethyl Ether	H_2O	0.0667	0.0847
Benzene	C_6H_6	0.2054	1.700
Petroleum Ether	—	0.0103	0.0211
Carbon Tetrachloride	CCl_4	0.203	0.529
Water	H_2O	0.574	0.0506
Glycerol (15.5°)	$C_3H_8O_3$	0.50	—

№ 6478

QUINIDINE — VARIOUS SOLVENTS

$C_{20}H_{24}N_2O_2$ — —

t = 20

[1418]

Solvent		Solubility A, Wt. %
Name	Formula	
Ethyl Ether	$C_4H_{10}O$	0.776
Ethyl Ether sat. with H_2O	"	1.629
H_2O sat. with Ethyl Ether	H_2O	0.031
Benzene	C_6H_6	2.451
Petroleum Ether	—	0.0241
Carbon Tetrachloride	CCl_4	0.565
Water	H_2O	0.0202

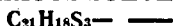
**TRIPHENYL - (SYM)TRITHIANE (α) -
VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Solvent	
Ethyl Ether	$C_4H_{10}O$	1.078
Ethanol	C_2H_6O	0.20
Methanol	CH_4O	0.17
Acetone	C_3H_6O	2.391
Chloroform	$CHCl_3$	9.999
Carbon Disulfide	CS_2	5.491
Benzene	C_6H_6	5.732
Ethyl Acetate	$C_4H_8O_2$	2.009

**TRIPHENYL - (SYM)TRITHIANE (β) -
VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Solvent	
Ethyl Ether	$C_4H_{10}O$	0.369
Ethanol	C_2H_6O	0.040
Methanol	CH_4O	0.040
Acetone	C_3H_6O	1.107
Chloroform	$CHCl_3$	0.200
Carbon Disulfide	CS_2	0.219
Benzene	C_6H_6	0.014
Ethyl Acetate	$C_4H_8O_2$	0.921

QUERCITRIN - VARIOUS SOLVENTS



$$t = 16$$

Solvent		Solubility A, Wt. %
Name	Solvent	
Water	H_2O	0.0064
Ethanol 49% Aq.	C_2H_6O	0.894
Ethanol 95% Aq.	"	4.040
Ethyl Ether	$C_4H_{10}O$	0.006
Methanol	CH_4O	8.94
Ethyl Acetate	$C_4H_8O_2$	0.070

№ 6482

[1418]

HYDRASTINE – VARIOUS SOLVENTS*t* = 20

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.033
Ethanol	C ₂ H ₆ O	0.74
Benzene	C ₆ H ₆	8.89
Ethyl Acetate	C ₄ H ₈ O ₂	4.05
Ethyl Ether	C ₄ H ₁₀ O	0.51
Chloroform	CHCl ₃	>50
Carbon Tetrachloride	CCl ₄	0.123
Petroleum Ether	—	0.073

№ 6483

[1418]

**STRYCHNINE –
PETROLEUM ETHER**

Solubility A, Wt. %	<i>t</i>
0.0093	20

№ 6484

[2128]

**STRYCHNINE –
SESAME OIL**

Solubility A, Wt. %	<i>t</i>
0.061	20

№ 6485

[2022]

**STRYCHNINE –
OLIVE OIL**

Solubility A, g/l.	<i>t</i>
3.2	25

№ 6486

[1404]

**1, 3, 3-TRIPHENYL - 3 - METHOXY -
1 - PROPYNE – VARIOUS SOLVENTS**

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH ₄ O	0.2	15.8
Ethanol	C ₂ H ₆ O	0.2	15.8
1 - Propanol	C ₃ H ₈ O	0.5	15.9
Petroleum Ether	—	0.9	16.0

№ 6487

[1418]

COLCHICINE - VARIOUS SOLVENTS $t = 18-22$

Solvent		Solubility A, Wt.%
Name	Formula	
Water	H ₂ O	8.76
H ₂ O sat. with Ethyl Ether	H ₂ O	10.75
Ethyl Ether	C ₄ H ₁₀ O	0.13
Ethyl Ether sat. with H ₂ O	"	0.18
Benzene	C ₆ H ₆	0.93
Carbon Tetrachloride	CCl ₄	0.12
Ethyl Acetate	C ₄ H ₈ O ₂	1.32
Petroleum Ether	—	0.06

№ 6488

[1978]

COLCHICINE - VARIOUS SOLVENTS

Solvent		Solubility A, Wt.%	t
Name	Formula		
Water	H ₂ O	4.31	25
"	"	4.76	80
Ethyl Ether	C ₄ H ₁₀ O	0.64	25
Benzene	C ₆ H ₆	1.14	25

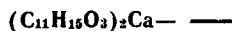
№ 6489

[1978]

**PHYSOSTIGMINE o-HYDROXYBENZOATE -
VARIOUS SOLVENTS**

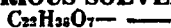
Solvent		Solubility A, Wt.%	t
Name	Formula		
Water	H ₂ O	1.36	25
"	"	6.24	80
Ethanol	C ₂ H ₅ O	7.30	25
"	"	20.00	60
Chloroform	CHCl ₃	10.39	25
Ethyl Ether	C ₄ H ₁₀ O	5.67	25

CALCIUM CAMPHORCARBONATE -
VARIOUS SOLVENTS



Solvent		Solubility A, g/l.	t
Name	Formula		
Water	H ₂ O	8.53	5.5
Methanol	CH ₄ O	1.64	5.5
Ethanol	C ₂ H ₆ O	2.35	5.5
Benzene	C ₆ H ₆	132.0	5.5
Ethyl Acetate	C ₄ H ₈ O ₂	18.85	15.0
Chloroform	CHCl ₃	49.6	14
Carbon Tetrachloride	CCl ₄	96.75	15
Carbon Disulfide	CS ₂	183.05	15
Petroleum Ether	—	5.12	14
Petroleum	—	6.8	14

λ-1. ASCORBYL HEXADECANOATE -
VARIOUS SOLVENTS



t = 25

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.56
Ethanol 95%	C ₂ H ₆ O	19.0
Benzene	C ₆ H ₆	0.45
Ethylene Glycol	C ₂ H ₆ O ₂	0.18
1, 2-Propylene Glycol	C ₃ H ₈ O ₂	6.2
Dioxane	C ₄ H ₈ O ₂	16.0
Ethyl Acetate	"	4.7
Ethylene Glycol Monoethyl Ether	C ₄ H ₁₀ O ₂	25.3
Nut Oil	—	0.18
Cotton Seed Oil	—	0.22

CIS - 13 - DOCOSENOIC ACID - VARIOUS SOLVENTS



B		Solubility A, Wt. %	t
Name	Formula		
Methanol	CH ₄ O	2.25	-2
"	"	60.4	18
"	"	62	21.4
Ethanol	C ₂ H ₆ O	8.24	-2
"	"	63.4	21.4
1-Propanol	C ₃ H ₈ O	10.2	-2
"	"	60.5	18
"	"	63.0	21.4

**1, 3, 3 - TRIPHENYL - 3 - ETHOXY -
1 - PROPYNE - VARIOUS SOLVENTS**
 $C_{23}H_{30}O$ — —

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH ₄ O	2.7	15.9
Ethanol	C ₂ H ₆ O	3.4	15.9
1-Propanol	C ₃ H ₈ O	7.0	15.9
Petroleum Ether	—	27.3	16.0

ROTENONE - VARIOUS SOLVENTS

$C_{23}H_{22}O_6$ — —
t = 20

Solvent		Solubility A, Wt. %	d_4^{20}
Name	Formula		
Acetone	C ₃ H ₆ O	8.0	0.825
Acetic Acid	C ₂ H ₄ O ₂	2.2	1.057
1-Butanol	C ₄ H ₁₀ O	0.3	0.814
Ethanol	C ₂ H ₆ O	0.3	0.792
2-Propanol	C ₃ H ₈ O	0.2	0.790
Methanol	CH ₄ O	0.3	0.796
Pentyl Acetate	C ₇ H ₁₄ O ₂	1.8	0.872
Benzene	C ₆ H ₆	8.8	0.908
Carbon Disulfide	CS ₂	1.3	1.270
Carbon Tetrachloride	CCl ₄	0.4	1.587
Chlorobenzene	C ₆ H ₅ Cl	12.0	1.127
Chloroform	CHCl ₃	33.0	1.430
2-Chloroethoxy - 2-Chloroethane	C ₄ H ₈ OCl ₂	6.1	1.228
Ethyl Ether	C ₄ H ₁₀ O	0.5	0.721
Ethyl Acetate	C ₄ H ₈ O ₂	5.2	0.916
2-Chloroethanol	C ₂ H ₅ OCl	9.4	1.210
1, 2-Dichloroethane	C ₂ H ₄ Cl ₂	26.1	1.270
Propyl Formate	C ₄ H ₈ O ₂	6.6	0.915
Toluene	C ₇ H ₈	7.2	0.890
Trichloroethylene	C ₂ HCl ₃	11.4	1.447
Dimethylbenzene	C ₈ H ₁₀	3.8	0.878

**MORPHINE PICRATE -
VARIOUS SOLVENTS**

$C_{23}H_{22}N_4O_{10}$ — —
t = 20

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.22
Ethanol	C ₂ H ₆ O	0.14
Acetone	C ₃ H ₆ O	13.86

№ 6496

[2128]

**BRUCINE -
PETROLEUM ETHER**

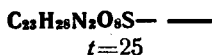


Solubility A, wt. %	<i>t</i>
0.088	20

№ 6497

**BRUCINE SULFATE -
VARIOUS SOLVENTS**

[1711]

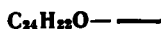


Solvent		Solubility A, g/l.
Name	Formula	
Methanol	CH ₄ O	2.8
Ethanol	C ₂ H ₆ O	16.6
Chloroform	CHCl ₃	6.0

№ 6498

**1, 3, 3 - TRIPHENYL - 3 -
PROPOXY - 1 - PROPYNE -
VARIOUS SOLVENTS**

[1404]

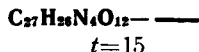


Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Methanol	CH ₄ O	4.7	16.2
Ethanol	C ₂ H ₆ O	4.8	16.2
1 - Propanol	C ₃ H ₈ O	9.9	16.2
Petroleum Ether	—	62.5	16.0

№ 6499

**CRYPTOPINE PICRATE -
VARIOUS SOLVENTS**

[1291]

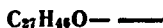


Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.007
Ethanol	C ₂ H ₆ O	0.022
Acetone	C ₃ H ₆ O	0.162

№ 6500

**CHOLESTEROL -
VARIOUS SOLVENTS**

[2032]



$$t=20$$

Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	0.646
Furfural	C ₅ H ₄ O ₂	0.333
2-Methyl-1-propanol	C ₄ H ₁₀ O	5.966
1-Pentanol	C ₅ H ₁₂ O	9.535

№ 6501

**NARCOTINE PICRATE -
VARIOUS SOLVENTS**

[1291]



$$t=20$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.02
Ethanol	C ₂ H ₆ O	0.13
Acetone	C ₃ H ₆ O	30.0

№ 6502

**dl-NARCOTINE PICRATE -
VARIOUS SOLVENTS**

[1291]



$$t=15$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.009
Ethanol	C ₂ H ₆ O	0.04
Acetone	C ₃ H ₆ O	2.34

№ 6503

**NARCEINE PICRATE -
VARIOUS SOLVENTS**

[1291]



$$t=20$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.027
Ethanol	C ₂ H ₆ O	0.01
Acetone	C ₃ H ₆ O	5.23

EMETINE — OLIVE OIL

Solubility A, g/l.	<i>t</i>
10	25

CARYOPHYLLIN — VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethanol 95%	C_2H_6O	0.934	20
" "	"	2.777	m. p.
Acetone	C_3H_6O	0.552	20
Ethyl Ether	$C_4H_{10}O$	1.514	20
Chloroform	$CHCl_3$	0.840	20
Methanol	CH_3O	0.423	20

**ANDROMEDOTOXINE —
VARIOUS SOLVENTS***t* = 12

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	2.81
Ethanol	C_2H_6O	11.70
1 - Pentanol	$C_5H_{12}O$	1.14
Chloroform	$CHCl_3$	0.26
Ethyl Ether	$C_4H_{10}O$	0.07
Petrol	—	0.004

**VERATRINE —
SESAME OIL**

Solubility A, Wt. %	<i>t</i>
1.37	20

№ 6508

[1738]

VERATRINE – VARIOUS SOLVENTS $t=20$

Solvent		Solubility A, Wt. %
Name	Formula	
Aniline	C_6H_7N	27.01
Pyridine	C_5H_5N	63.63
Piperidine	$C_5H_{11}N$	45.36
Diethylamine	$C_4H_{11}N$	73.04

№ 6509

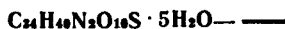
[2060]

**HEXADECYL HEXADECANOATE –
VARIOUS SOLVENTS**

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Ethyl Ether	$C_4H_{10}O$	2.25	0
" "	"	17.36	22
Ethanol	C_2H_5O	0.0495	22
Acetic Acid	$C_2H_4O_2$	0.0533	22

№ 6510

[1978]

MORPHINE SULFATE – VARIOUS SOLVENTS

Solvent		Solubility A, Wt. %	<i>t</i>
Name	Formula		
Water	H_2O	6.13	25
"	"	62.49	80
Ethanol	C_2H_5O	0.22	25
"	"	0.53	60

№ 6511

[1418]

**ACONITINE –
VARIOUS SOLVENTS** $t=25$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H_2O	0.031
Ethanol	C_2H_5O	4.34
Ethyl Ether	$C_4H_{10}O$	2.22
Benzene	C_6H_6	15.15
Petroleum Ether	—	0.028

№ 6512

ACONITINE -
VARIOUS SOLVENTS

[1978]



$$t = 18 - 22$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.054
Ethyl Ether	C ₄ H ₁₀ O	1.42
Carbon Tetrachloride	CCl ₄	1.95
Petroleum Ether	—	0.023

№ 6513

HYOSCYAMINE SULFATE -
VARIOUS SOLVENTS

[1978]



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	13.50
Ethyl Ether	C ₄ H ₁₀ O	0.04
Chloroform	CHCl ₃	0.043

№ 6514

dl - HYOSCYAMINE SULFATE - VARIOUS SOLVENTS

[1978]



Solvent		Solubility A, Wt. %	t
Name	Formula		
Water	H ₂ O	72.46	25
"	"	81.96	80
Ethanol	C ₂ H ₆ O	21.26	25
"	"	34.47	60
Ethyl Ether	C ₄ H ₁₀ O	0.047	25
Chloroform	CHCl ₃	0.161	25
Glycerol	C ₃ H ₈ O ₃	24.81	15

№ 6515

HEXADECYL OCTADECANOATE -
VARIOUS SOLVENTS

[2060]



Solvent		Solubility A, Wt. %	t
Name	Formula		
Ethyl Ether	C ₄ H ₁₀ O	0.72	0
"	"	8.32	22
Ethanol	C ₂ H ₆ O	0.0594	22
Acetic Acid	C ₂ H ₄ O ₂	0.0388	22

**TRIPHENYL - p - ROSANILINE —
VARIOUS SOLVENTS**



$$t = 23$$

Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	0.447
Ethanol	C ₂ H ₆ O	0.285
1 - Pentanol	C ₅ H ₁₂ O	0.11
Aniline	C ₆ H ₇ N	0.518
Acetone	C ₃ H ₆ O	0.19

QUINIDINE SULFATE — VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	50
Methanol	CH ₄ O	400
Chloroform	CHCl ₃	83.3
Benzene	C ₆ H ₆	Нерастворим

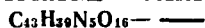
QUININE SULFATE — VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C ₂ H ₆ O	4.0
Methanol	CH ₄ O	31.2
Chloroform	CHCl ₃	2.7
Benzene	C ₆ H ₆	0

XANTHALINE PICRATE — VARIOUS SOLVENTS



$$t = 15$$

Solvent		Solubility A, Wt. %
Name	Formula	
Water	H ₂ O	0.01
Ethanol	C ₂ H ₆ O	0.022
Acetone	C ₃ H ₆ O	0.34

№ 6520

[487]

**GLYCEROL 1-OCTADECANOATE - 2-DODECANOATE -
3-DECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.35
Acetone	C_3H_6O	20.66
Petroleum Ether	—	59.75

№ 6521

[487]

**GLYCEROL 1-OCTADECANOATE - 2-DECANOATE -
3-DODECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.38
Acetone	C_3H_6O	11.81
Ethyl Ether	$C_4H_{10}O$	65.84
Petroleum Ether	—	64.22

№ 6522

[701]

CHOLESTEROL OCTADECANOATE - OILS

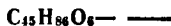


Solvent	Solubility A, Wt. %	t
Olive Oil	3.24	37.6
Castor Oil	0.26	37.6
9-Octadecenoic Acid	3.95	37.5
Ricinic Acid	0.33	37.0
Pseudoricinic Acid	0.84	36.2
trans-2-Butenoic Acid	0.86	36.5

№ 6523

[487]

**GLYCEROL 1-OCTADECANOATE - 2-DECANOATE -
3-TETRADECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.08
Acetone	C_3H_6O	1.92
Ethyl Ether	$C_4H_{10}O$	34.97
Petroleum Ether	—	27.03

№ 6524

[487]

**GLYCEROL 1-OCTADECANOATE - 2 - TETRADECANOATE -
3 - DECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.31
Acetone	C_3H_6O	8.30
Petroleum Ether	—	53.80

№ 6525

[487]

**GLYCEROL 1-OCTADECANOATE - 2 - HEXADECANOATE -
3 - DECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.03
Acetone	C_3H_6O	0.58
Ethyl Ether	$C_4H_{10}O$	18.61
	—	9.59

№ 6526

[487]

**GLYCEROL 1-OCTADECANOATE - 2 - DECANOATE - 3 -
HEXADECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.09
Acetone	C_3H_6O	2.32
Petroleum Ether	—	47.35

№ 6527

[487]

**GLYCEROL 1-OCTADECANOATE - 2 - DODECANOATE -
3 - TETRADECANOATE - VARIOUS SOLVENTS**



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.04
Acetone	C_3H_6O	0.67
Ethyl Ether	$C_4H_{10}O$	23.47
Petroleum Ether	—	13.98

№ 6528

[487]

**GLYCEROL 1-OCTADECANOATE - 2-TETRADECANOATE -
3-DODECANOATE - VARIOUS SOLVENTS**



$$t=25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.07
Acetone	C_3H_6O	2.47
Ethyl Ether	$C_4H_{10}O$	52.96
Petroleum Ether	—	44.77

№ 6529

[487]

**GLYCEROL 1-OCTADECANOATE - 2-DODECANOATE -
3-HEXADECANOATE - VARIOUS SOLVENTS**



$$t=25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.03
Acetone	C_3H_6O	0.31
Ethyl Ether	$C_4H_{10}O$	14.16
Petroleum Ether	—	8.70

№ 6530

[487]

**GLYCEROL 1-OCTADECANOATE - 2-HEXADECANOATE -
3-DODECANOATE - VARIOUS SOLVENTS**



$$t=25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.06
Acetone	C_3H_6O	1.44
Ethyl Ether	$C_4H_{10}O$	42.08
Petroleum Ether	—	37.05

№ 6531

**GLYCEROL TRI-9-OCTADECENOATE -
GLYCEROL TRIHEXADECANOATE**



[1134]

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
100	0	-7	53.0	47.0	56.9
93.9	6.1	25	27.2	72.8	60.9
78.5	21.5	48.2	0.0	100.0	62.6
73.9	26.1	50			

№ 6532

GLYCEROL TRIHEXADECANOATE —
GLYCEROL TRIOCTADECANOATE $C_{51}H_{98}O_6 - C_{57}H_{110}O_6$

[1134]

Mutual Solubility, Wt. %		m.p.	Mutual Solubility, Wt. %		m.p.
A	B		A	B	
10	90	60.4	47.0	53.0	57.2
25	75	58	56.2	43.8	55.1
30.6	69.4	57.8	68.8	31.2	54.5
39.8	60.2	56	91.6	8.4	60.4

№ 6533

[1628]

GLYCEROL DIOCTADECANOATE DODECANOATE —
PETROLEUM ETHER



$$t = 27.5$$

A	Solubility A, g/l.
Glycerol 1-Dodecanoate - 2, 3-Dioctadecanoate	384.1
Glycerol 2-Dodecanoate - 1, 2-Dioctadecanoate	114.2

№ 6534

[487]

GLYCEROL 1-OCTADECANOATE - 2 - TETRADECANOATE -
3-HEXADECANOATE — VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.03
Acetone	C_3H_6O	0.18
Ethyl Ether	$C_4H_{10}O$	9.89
Petroleum Ether	—	7.05

№ 6535

[487]

GLYCEROL 1-OCTADECANOATE - 2-HEXADECANOATE -
3-TETRADECANOATE — VARIOUS SOLVENTS



$$t = 25$$

Solvent		Solubility A, Wt. %
Name	Formula	
Ethanol	C_2H_6O	0.03
Acetone	C_3H_6O	0.18
Ethyl Ether	$C_4H_{10}O$	9.94
Petroleum Ether	—	5.18

GLYCEROL TRI-9-OCTADECENOATE —
GLYCEROL TRIOCTADECANOATE $C_{57}H_{104}O_6 - C_{57}H_{106}O_6$

Mutual Solubility, Wt. %			<i>t</i>	Mutual Solubility, Wt. %		
A	B	A		B	<i>t</i>	
95.2	4.8	28	47.2	52.8	64.3	
85.3	14.7	44	25.4	74.6	64.3	
76.7	23.3	50.7	0.0	100.0	56	
68.8	31.2	56				

№ 6537 **GLYCEROL TRIOCTADECANOATE — COTTON SEED OIL** [934]
 $C_{57}H_{110}O_6 -$ —

Solubility A, Wt. %	<i>t</i>		
	α -form	β^1 -form	β -form
1.1	28.1	33.9	42.1
2.8	34.6	40.8	48.1
7.4	40.1	46.1	53.6
13.7	43.3	49.5	56.8
28.6	47.2	53.6	61.2
44.0	49.2	56.6	64.4
60.0	50.9	59.0	67.0
77.7	52.5	61.2	69.4
90.5	53.4	63.0	71.5
100.0	54.0	64.5	73.0

NOTE: Data computed from the article graph

PARAFFIN* — VARIOUS SOLVENTS

 $t=20$

Solvent		Solubility A, Wt. %
Name	Formula	
Carbon Disulfide	CS ₂	11.50
Benzine (boiling below 75°)	—	10.50
Turpentine (t _{b.pt.} 158° — 166°)	—	5.71
Cumene, com. (t _{b.pt.} = 150° — 160°)	C ₁₀ H ₁₄	4.08
Cumene, frac. (t _{b.pt.}	"	3.84
Dimethylbenzene, com. (t _{b.pt.} = 135° — 143°)	C ₈ H ₁₀	3.80
Dimethylbenzene, frac. (t _{b.pt.} = 135° — 138°)	"	4.20
Toluene, com. (t _{b.pt.} = 108° — 110°)	C ₇ H ₈	3.73
Toluene, frac. (t _{b.pt.} = 108° — 109°)	"	3.77
Chloroform	CHCl ₃	2.36
Benzene	C ₆ H ₆	1.95
Ethyl Ether	C ₄ H ₁₀ O	1.91
2-Methyl-1-propanol	"	0.284

* Paraffin; b.p. 64 — 65°, d_4^{20} 0.917, obtained from Isokerite.* Paraffin Wax; m.p. 64 — 65°, d_4^{20} 0.917, obtained from Isokerite.

Solvent		Solubility A, Wt. %
Name	Formula	
Acetone	C ₃ H ₆ O	0.261
Ethyl Acetate	C ₄ H ₈ O ₂	0.237
Ethanol	C ₂ H ₆ O	0.218
1-Pentanol	C ₅ H ₁₂ O	0.202
Propanoic Acid	C ₃ H ₆ O ₂	0.165
1-Propanol	C ₃ H ₈ O	0.141
Methanol	CH ₄ O	0.071
Methyl Formate	C ₃ H ₆ O ₂	0.060
Acetic Acid	C ₂ H ₄ O ₂	0.060
Acetic Anhydride	C ₄ H ₆ O ₃	0.025
Formic Acid	CH ₂ O ₂	0.013
Ethanol 75%	C ₂ H ₆ O	0.0003

№ 6539

[1911]

**DIPHENYLAMINE BLUE —
VARIOUS SOLVENTS**

t=23

Solvent		Solubility A, Wt. %
Name	Formula	
Methanol	CH ₄ O	0.385
Ethanol	C ₂ H ₆ O	0.230
Pentanol	C ₅ H ₁₂ O	0.049
Acetone	C ₃ H ₆ O	0.177
Aniline	C ₆ H ₇ N	0.395

№ 6540

FIRE DAMP — VARIOUS SOLVENTS

[709]

t=20, P=760

Solvent		Solubility A cc/cc B	Solvent		Solubility A cc/cc B
Name	Formula		Name	Formula	
Water	H ₂ O	0.09	Ethyl Ether	C ₄ H ₁₀ O	0.91
Petroleum Ether (bp.pt. = 65°)	—	1.34	Acetone	C ₃ H ₆ O	0.61
Petroleum Ether (bp.pt. = 65° - 100°)	—	0.84	Ethyl Acetate	C ₄ H ₈ O ₂	0.45
Petroleum Ether (bp.pt. = 100° - 150°)	—	0.66	Chloroform	CHCl ₃	0.32
Petroleum	—	0.56	Carbon Disulfide	CS ₂	0.36
Paraffin Oil	—	0.44	Benzene	C ₆ H ₆	0.51
Methanol	CH ₄ O	0.46	Dimethylbenzene	C ₈ H ₁₀	0.53
Ethanol	C ₂ H ₆ O	0.60	Aniline	C ₆ H ₇ N	0.16
1-Pentanol	C ₅ H ₁₂ O	0.44	Nitrobenzene	C ₆ H ₅ NO ₂	0.16
			Cresols (mixed)	—	0.26
			Coal Tar Hydrocarbon (t = 250 - 300)	—	0.40

* Composition: 79.4% CH₄ + 17.1% N₂ + 2.8% O₂ + 0.7% CO₂

REFERENCES

SOVIET LITERATURE

1. ALEKSEEV V., *Wied. ann. Phys.*, **28**, 305, 338 (1886).
2. ARONOVA S. I., LUNSKAYA S., *Zhur. Fiz. Khim.*, **8**, No, 18, 23 (1931).
3. AKHUMOV E. I., VASIL'EV B. B., *Zhur. Obshchei Khim.*, **2**, 271 (1932).
4. AKHUMOV E. I., DERYABINA N. V., *Zhur. Obshchei Khim.*, **6**, 1175 (1936).
5. AKHUMOV E. I., DRUZYAKOVA L. I., *Zhur. Obshchei Khim.*, **7**, 298 (1937).
6. BERGMAN A. G., KUZNETSOVA M. N., *Zhur. Obshchei Khim.*, **9**, 631 (1939).
7. BIBER V., NEIMAN YU., *Zhur. Obshchei Khim.*, **7**, 2658 (1937).
8. BOGOVSKII, *Zhur. Russ. Fiz. Khim. Obshchestva*, **37**, 92 (1905).
9. BOGORODSKII, *Zhur. Russ. Fiz. Khim. Obshchestva*, **26**, 209 (1894).
10. BOLDYREV A. K., *Zhur. Russ. Fiz. Khim. Obshchestva*, **48**, 1869 (1916).
11. BOKHOVKIN I. M., CHESNOKOV V. F., *Zhur. Obshchei Khim.*, **25**, 909 (1955).
12. BRODSKII A. E., ALFEROV M. I., *Ber.*, **62**, 2133 (1929).
13. BROUN A. S., *Zhur. Obshchei Khim.*, **3**, 973 (1933).
14. BUSEV A. I., BYR'KO V. M., *Trudy Komissii Anal. Khim.*, T.IX (XII), page 59, AN-SSSR, 1958.
15. VAL'DMAN A., KLYACHKO-GURVICH L., *Zhur. Obshchei Khim.*, **5**, 791 (1935).
16. VASIL'EV A. M., *Zhur. Russ. Fiz. Khim. Obshchestva*, **42**, 423, 562 (1910).
17. VASIL'EV A. M., *Zhur. Russ. Fiz. Khim. Obshchestva*, **48**, 1779 (1916).
18. VASIL'EV A. A., MARTYNOV N. N., *Z. anal. Chem.*, **103**, 103 (1935).
19. VASIL'EV B. B., PORTNOV M. A., ZHURAVLEV A. M., *Zhur. Obshchei Khim.*, **9**, 65, (1939).
20. VELLER E. A., PORAI-KOSHITS B. A., *Zhur. Priklad. Khim.*, **28**, 857 (1953).
21. VETROV A. S., *Zhur. Obshchei Khim.*, **7**, 1093 (1937).
22. VOL'NOV YU. P., *Zhur. Fiz. Khim.*, **28**, 1382 (1954).
23. VORONKOV M. G., *Zhur. Fiz. Khim.*, **21**, 969 (1947).
24. VIKTOROV M. M., SHATENSHTAIN A. I., *Zhur. Fiz. Khim.*, **8**, 260 (1936).
25. VOZNESENSKII A. A., *Zhur. Russ. Fiz. Khim. Obshchestva*, **59**, 225 (1927).
26. GAVRISH N. P., *Zhur. Obshchei Khim.*, **25**, 1700 (1955).
27. GAMBURG D. YU., *Zhur. Fiz. Khim.*, **26**, 1122 (1952).
28. GAL'PERIN N. I., MATVEEV I. G., VIL'SHAU K. V., *Zhur. Priklad. Khim.*, **31**, 1323 (1958).
29. GENKE F. A., *Zhur. Priklad. Khim.*, **58**, 596 (1926).
30. GERASIMOV YU. I., *Z. anorg. Chem.*, **187**, 321 (1930).
31. GERASIMOV YU. I., *Zhur. Obshchei Khim.*, **4**, 723 (1934).
32. GOLUBEV I. F., OLEVSKII V. M., *Trudy Gosudarst. Inst. Azotnoi Prom.*, **8**, 58 (1957).
33. GONIKBERG M. G., FASTOVSKII V. G., *Zhur. Fiz. Khim.*, **14**, 257 (1940).
34. GONIKBERG M. G., FASTOVSKII V. G., *Zhur. Fiz. Khim.*, **14**, 1128 (1940).
35. GONIKBERG M. G., FASTOVSKII V. G., GURVICH I. G., *Zhur. Fiz. Khim.*, **13**, 1669 (1939).
36. GRINBERG A. A., CHAPURSKII I. N., *Zhur. Neorg. Khim.*, **4**, 314 (1959).

37. DIONIS'EV D. E., *Zhur. Obshchei Khim.*, **3**, 976 (1933).
38. DIONIS'EV D. E., *Zhur. Obshchei Khim.*, **19**, 669 (1949).
39. DIONIS'EV D. E., RUDENKO N. Z., *Zhur. Obshchei Khim.*, **21**, 991 (1951).
40. DINABURG M. S., PORAI-KOSHITS B. A., *Zhur. Priklad. Khim.*, **28**, 664 (1955).
41. DISTANOV G. K., *Zhur. Obshchei Khim.*, **7**, 676 (1937).
42. DOBROSEDOV D., ERDMAN V. O., *Ukrain. Khim. Zhur.*, **2**, 119 (1926).
43. DONSKAYA D. B., PORTNOV M. A., *Zhur. Obshchei Khim.*, **9**, 526 (1939).
44. DUKEL'SKII M. P., *Z. anorg. Chem.*, **53**, 327; **54**, 45 (1907).
45. DUKEL'SKII M. P., *Zhur. Russ. Fiz. Khim. Obshchestva*, **39**, 975 (1907).

46. EGOROV V. S., *Khim. Zhurn.*, **A1**, 1266 (1931).
47. EFREMOV N. N., *Zhur. Russ. Fiz. Khim. Obshchestva*, **50**, 353 (1918).

48. ZHEMCHUZHNYI S. F., *Izvest. Inst. Izucheniya Platiny*, **5**, 364 (1927).
49. ZHURAVLEV E. F., *Zhur. Obshchei Khim.*, **8**, 1704 (1938).
50. ZHURAVLEV E. F., *Zhur. Obshchei Khim.*, **10**, 1926 (1940).
51. ZHURAVLEV E. F., BYCHKOVA M. N., *Zhur. Obshchei Khim.*, **17**, 1577 (1947).
52. ZASLAVSKII A. I., ETTINGER I. L., *Z. anorg. Chem.*, **223**, 277 (1935).
53. ZASLAVSKII A. I., ETTINGER I. L., EZEROVA E. A., *Z. anorg. Chem.*, **225**, 305 (1935).
54. ZIL'BERMAN E. N., *Zhur. Priklad. Khim.*, **24**, 776 (1951).
55. ZIL'BERMAN E. N., *Zhur. Priklad. Khim.*, **26**, 941 (1953).
56. ZISKIND B., KAZARNOVSKII I., *Zhur. Fiz. Khim.*, **4**, 683 (1933).

57. IZMAILOV N. A., CHERNYI V. S. *Trudy Komissii Anal. Khim.*, T.I (XII), page 44, AN-SSSR, 1958.
58. IPAT'EV V. V., DRUZHINA-ARTEMOVICH S. I., TIKHOMIROV V. I., *Zhur. Obshchei Khim.*, **1**, 594 (1931).
59. IPAT'EV V. V., LEVINA M. I., *Zhur. Fiz. Khim.*, **6**, 632 (1935).
60. IPAT'EV V. V., TEODOROVICH V. P., *Zhur. Obshchei Khim.*, **2**, 305 (1932).
61. IPAT'EV V. V., TEODOROVICH V. P., *Zhur. Obshchei Khim.*, **4**, 395 (1934).
62. IPAT'EV V. V., TEODOROVICH V. P., BRESTKIN A. P., ARTEMOVICH V. S., *Zhur. Fiz. Khim.*, **22**, 834 (1948).

63. KABLUKOV, I. A., MALYSHEVA V. T., *J. Am. Chem. Soc.* **47**, 1553 (1925).
64. KASANTSEV A. A., *Izv. Inst. Khim. Reakt.*, No. 2, 10 (1923).
65. KAZANTSEV A. A., *Zhur. Obshchei Khim.*, **8**, 1230 (1938).
66. KAPLAN S. I., MONAKHOVA Z. D., REFORMATSKAYA A. S., BESSONOVA E. I., *Zhur. Priklad. Khim.*, **10**, 2022 (1937).
67. KAPLAN S. I., RABINOVICH F. E., *Zhur. Priklad. Khim.*, **21**, 1162 (1948).
68. KAPLAN S. I., REFORMATSKAYA A. S., *Zhur. Obshchei Khim.*, **7**, 545 (1937).
69. KAPLAN S. I., ROMANCHUK M. A., *Zhur. Obshchei Khim.*, **6**, 950 (1936).
70. KAPUSTINSKII A. F., MAL'TSEV V. A., *Zhur. Fiz. Khim.*, **14**, 105 (1940).
71. KIREEV V. A., KAPLAN S. I., VASNEVA K. I., *Zhur. Fiz. Khim.*, **5**, 739 (1934).
72. KIREEV V. A., KAPLAN S. I., VASNEVA K. I., *Zhur. Obshchei Khim.*, **6**, 799 (1936).
73. KIREEV V. A., KAPLAN S. I., ROMANCHUK M. A., *Zhur. Obshchei Khim.*, **5**, 444 (1935).
74. KIREEV V. A., ROMANCHUK M. A., *Zhur. Obshchei Khim.*, **6**, 78 (1936).
75. KIREEV V. A., ROMANCHUK M. A., *Zhur. Obshchei Khim.*, **6**, 81 (1936).
76. KOGAN, V. B., DEIZENROT I. V., KUL'DYAEVA T. A., FRIDMAN V. M., *Zhur. Priklad. Khim.*, **19**, 1387 (1956).
77. KONOVALOV D., *Zhur. Russ. Fiz. Khim. Obshchestva*, **31**, 910, 985 (1899).
78. KONOVALOV D., *Ann. Phys. (Wied)* (4), **10**, 375 (1903).
79. KLOCHKO-ZHOVNIR YU. F., *Zhur. Priklad. Khim.*, **21**, 309 (1948).
80. KLOCHKO-ZHOVNIR YU. F., *Zhur. Priklad. Khim.*, **22**, 848 (1949).
81. KLOCHKO-ZHOVNIR YU. F., *Zhur. Priklad. Khim.*, **22**, 1292 (1949).

82. KRAVCHENKO V. M., *Zhur. Fiz. Khim.*, **13**, 133 (1939).
83. KRAVCHENKO V. M., *Zhur. Fiz. Khim.*, **13**, 989 (1939).
84. KRAVCHENKO V. M., *Zhur. Priklad. Khim.*, **22**, 724 (1949).
85. KRAVCHENKO V. M., *Zhur. Priklad. Khim.*, **23**, 288 (1950).
86. KRAVCHENKO V. M., *Zhur. Priklad. Khim.*, **25**, 943 (1952).
87. KRAVCHENKO V. M., EREMenKO A. P., *Zhur. Priklad. Khim.*, **25**, 662 (1952).
88. KRAVCHENKO V. M., PASTUKHOVA I. S., *Zhur. Priklad. Khim.*, **25**, 313 (1952).
89. KRAVCHENKO V. M., PASTUKHOVA I. S., *Zhur. Priklad. Khim.*, **25**, 328 (1952).
90. KRAVCHENKO V. M., PASTUKHOVA I. S., *Zhur. Obshchei Khim.*, **29**, 27 (1959).
91. KRIVONOS F. F., *Zhur. Priklad. Khim.*, **31**, 500 (1958).
92. KRICHEVSKII I. R., BOL'SHAKOV P. E., *Zhur. Fiz. Khim.*, **15**, 184 (1941).
93. KRICHEVSKII I. R., GAMBURG D. YU., *Zhur. Fiz. Khim.*, **17**, 215 (1943).
94. KRICHEVSKII I. R., EFREMOVA G. D., *Zhur. Fiz. Khim.*, **25**, 577 (1951).
95. KRICHEVSKII I. R., EFREMOVA G. D., *Zhur. Fiz. Khim.*, **26**, 1117 (1952).
96. KRICHEVSKII I. R., EFREMOVA G. D., *Zhur. Fiz. Khim.*, **27**, 1682 (1953).
97. KRICHEVSKII I. R., ZHAVORONKOV N. M., TSIKLIS D. S., *Zhur. Fiz. Khim.*, **9**, 317 (1937).
98. KRICHEVSKII I. R., LEBEDEVA E. S., *Zhur. Fiz. Khim.*, **21**, 715 (1947).
99. KRICHEVSKII I. R., SORINA G. A., *Zhur. Fiz. Khim.*, **32**, 2080 (1958).
100. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **22**, 184 (1952).
101. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **23**, 1096 (1953).
102. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **25**, 2189 (1955).
103. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **26**, 1050 (1956).
104. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **26**, 1831 (1956).
105. KRUPATKIN I. L., *Zhur. Obshchei Khim.*, **26**, 3240 (1956).
106. KRUPATKIN I. L., BODIN M. A., *Zhur. Obshchei Khim.*, **17**, 1993 (1947).
107. KUZNETSOVA M. N., BERGMAN A. G., *Zhur. Obshchei Khim.*, **26**, 1326 (1956).
108. KURNAKOV N. S., *Zhur. Russ. Fiz. Khim. Obshchestva*, **24**, 629 (1893).
109. KURNAKOV N. S., PEREL'MUTER S., KANOV F. P., *Zhur. Russ. Fiz. Khim. Obshchestva*, **48**, 1658 (1916).
110. KURNAKOV N. S., RAVICH M. I., *Izvest. Inst. Obshchei Neorgn. Khim. AN-SSSR*, **6**, 169 (1933).
111. LEVINA M. I., STSIBAROVSKAYA N. P., *Zhur. Fiz. Khim.*, **12**, 653 (1938).
112. LEIBUSH A. G., SHORINA E. D., *Trudy Gosudarst. Inst. Azotnoi Prom.*, **6**, 297 (1956).
113. LIPETS M. E., RIMSKAYA M. M., *Tsvetnye. Metal.*, **600** (1931).
114. LUCHINSKII G. P., LIKHACHEVA A. I., *Zhur. Obshchei Khim.*, **7**, 402 (1937).
115. LUCHINSKII G. P., LIKHACHEVA A. I., *Zhur. Fiz. Khim.*, **10**, 822 (1937).
116. MAMEDALIEV YU. G., MUSAKHANLY S., *Zhur. Priklad. Khim.*, **13**, 735 (1940).
117. MEZHARAUP G. P., IEVIN'SH A. F., *Uchebnye zapiski Latv. Univ.*, **9**, 49 (1956).
118. MEZHENNYI YA. F., *Zhur. Obshchei Khim.*, **18**, 2037 (1948).
119. MEZHENNYI YA. F., *Zhur. Obshchei Khim.*, **19**, 404 (1949).
120. MAZHENNYI YA. F., *Zhur. Obshchei Khim.*, **24**, 1945 (1954).
121. MENSHTUTKIN B. N., *Izvest. SPb. Politekh. Inst.*, **5**, 355 (1906).
122. MENSHTUTKIN, B. N., *Efiraty i drugie molekulyarnye soedineniya bromistogo i iodistogo magniya*. SPb. (1907).
123. MENSHTUTKIN B. N., *Z. anorg. Chem.*, **52**, 155, **53**, 26 (1907).
124. MENSHTUTKIN B. N., *Z. anorg. Chem.*, **54**, 89 (1907).
125. MENSHTUTKIN B. N., *Izv. SPb. Politekh. Inst.*, **9**, 200 (1908).
126. MENSHTUTKIN B. N., *Z. anorg. Chem.*, **61**, 106 (1909).
127. MENSHTUTKIN B. N., *Izv. SPb. Politekh. Inst.*, **11**, 261, 567, **12**, 1 (1909).
128. MENSHTUTKIN B. N., *Zhur. Russ. Fiz. Khim., Obshchestva*, **41**, 1089 (1909).
129. MENSHTUTKIN B. N., *Izv. SPb. Politekh. Inst.*, **13**, 1, 263, 411, 565, **14**, 251 (1910).
130. MENSHTUTKIN B. N., *Izv. SPb. Politekh. Inst.*, **15**, 65, 397, 613, 647, 757, (1911).

131. MENSHTUKIN B. N., *Izv. SPb. Politekh. Inst.*, **16**, 33, 397, (1912).
132. MERTSLIN R. V., VASEV V. D., *Zhur. Obshchei Khim.*, **21**, 417 (1951).
133. MONBLANOVA V. V., RODIONOV V. M., *Zhur. Obshchei Khim.*, **23**, 1799 (1953).
134. MOSKVIN A. I., GEL'MAN A. D., *Zhur. Neorgan. Khim.*, **3**, 956 (1958).
135. MOCHALOV K. I., *Zhur. Obshchei Khim.*, **8**, 529 (1938).

136. NAMORADZE Z. G., ZVYAGINTSEV O. E., *Zhur. Priklad. Khim.*, **12**, 603 (1939).
137. NATSVLISHVILI E. R., BERGMAN A. G., *Zhur. Obshchei Khim.*, **9**, 642 (1939).
138. NIKITINA E. A., *Zhur. Obshchei Khim.*, **3**, 513 (1933).
139. NOVOZHILOVA A. V., *Zhur. Obshchei Khim.*, **4**, 1206 (1934).

140. OSIPOV O. A., FEDOROV YU. V., *Zhur. Obshchei Khim.*, **21**, 1434 (1951).
141. OSIPOV O. A., TRIFONOV N. A., *Zhur. Obshchei Khim.*, **19**, 1822 (1949).

142. PAPKOV S., KARGIN V., ROGOVIN Z., *Zhur. Fiz. Khim.*, **10**, 607 (1937).
143. PLAKSIN I. N., SUVOROVSKAYA N. A., *Zhur. Fiz. Khim.*, **15**, 978 (1941).
144. PLOTNIKOV V. A., BALYASNYI S. S., *Zhur. Obshchei Khim.*, **1**, 823 (1931).
145. PLOTNIKOV V. A., GRATSIANSKII N. N., *Zhur. Obshchei Khim.*, **9**, 1057 (1939).
146. POLOSIN V. A., SHAKHPARONOV M. I., *Zhur. Obshchei Khim.*, **17**, 397 (1947).
147. PORTNOV M. A., VASIL'EV B. B., *Z. anorg. Chem.*, **221**, 149 (1935).
148. PORTNOV M. A., DVILEVICH N. K., *Zhur. Obshchei Khim.*, **7**, 2149 (1937).
149. PUSHN N. A., *Zhur. Obshchei Khim.*, **18**, 1599 (1948).

150. RAKOVSKII A. V., BABAeva A. V., *Izvest. Inst. Khim. Chist. Reakt.*, No. 11, 15 (1931).
151. RAKOVSKII A. V., NIKITINA E. A., *Izvest. Inst. Khim. Chist. Reakt.*, No. 11, 51 (1931).
152. RAKOVSKII A. V., SLAVINA D. S., *Izvest. Inst. Khim. Chist. Reakt.*, No. 11, 20 (1931).
153. RAKOVSKII A. V., TARASENKOV D. N., *Z. anorg. Chem.*, **174**, 91 (1928).
154. REZNIKOVSKII M., TARASOVA Z., DOGADKIN B., *Zhur. Obshchei Khim.*, **20**, 63 (1950).
155. RYSS I. G., PLIT V. A., *Zhur. Obshchei Khim.*, **25**, 19 (1955).

156. SADYKOV A. S., OTRASHCHENKO O. S., MALIKOV V. M., *Zhur. Priklad. Khim.*, **28**, 552 (1955).
157. SAPOZHNIKOVA N. V., POSTOBSKII I. YA., *Zhur. Priklad. Khim.*, **17**, 427 (1944).
158. SEMISHIN V. I., *Zhur. Obshchei Khim.*, **9**, 82 (1939).
159. SEMISHIN V. I., *Zhur. Obshchei Khim.*, **9**, 788 (1939).
160. SEMISHIN V. I., *Zhur. Obshchei Khim.*, **13**, 625 (1943).
161. SEMISHIN V. I., *Zhur. Obshchei Khim.*, **13**, 632 (1943).
162. SLOBODIN YA. M., GOL'DMAN M. M., *Zhur. Priklad. Khim.*, **21**, 859 (1948).
163. SMIRNOV V., *Z. phys. Chem.*, **58**, 373, 667 (1907).
164. SPASOKUKOTSKII N. S., MARKOVA G. S., SHATENSHTAIN A. I., *Zhur. Obshchei Khim.*, **15**, 42 (1945).
165. SPITSYN V. I., *Zhur. Fiz. Russ. Khim. Obshchestva*, **49**, 357 (1917).
166. STAROBINETS G. L., FRIDMAN K. S., *Zhur. Obshchei Khim.*, **20**, 219 (1950).
167. STAROKADOMSKAYA E. L., *Zhur. Obshchei Khim.*, **9**, 840 (1939).
168. SUMAROKOVA T., SHEFER L., *Zhur. Obshchei Khim.*, **26**, 3247 (1956).

169. TANTSOV N. V., *Zhur. Russ. Fiz. Khim. Obshchestva*, **55**, 335 (1925).
170. TARASENKOV D. N., *Z. angew. Chem.*, **41**, 704 (1928).
171. TARASENKOV D. N., KOMANDIN A. V., *Zhur. Obshchei Khim.*, **10**, 1319 (1940).
172. TARASENKOV D. N., POLOZHINTSEVA E. N., *Zhur. Obshchei Khim.*, **1**, 71 (1931).
173. TIMOFEEV V., *Z. phys. Chem.*, **6**, 151 (1890).
174. TIMOFEEV V., *Compt. rend.*, **112**, 1137, 1224 (1891).
175. TIMOFEEV V., *Dissertatsiya. Khar'kov* (1894).

176. TIMOFEEV N. F., STAKORSKII R. M., *Ukrain. Khim. Zhur.*, **2**, 395 (1926).
 177. TRIFONOV N., *Chem. Zentr. Bl.*, **11**, 382 (1925).
178. UDOVENKO V. V., FATKULINA L. G., *Zhur. Fiz. Khim.*, **26**, 892 (1952).
 179. USANOVICH M., PICHUGINA E., *Zhur. Obshehei Khim.*, **26**, 2130 (1959).
 180. USPENSKII S. P., *Neftyanoe khoz.*, **17**, 713 (1929).
181. FASTOVSKII V. G., GONIKBERG M. G., *Zhur. Fiz. Khim.*, **14**, 426 (1940).
 182. FASTOVSKII V. G., KRESTINSKII YU. A., *Zhur. Fiz. Khim.*, **15**, 525 (1941).
 183. FEDOROV B. P., SPRYSKOV A. A., *Zhur. Priklad. Khim.*, **21**, 1014 (1948).
 184. FEDOROVA M. F., *Zhur. Fiz. Khim.*, **14**, 422 (1940).
 185. FEDOT'EV P. P., *Z. phys. Chem.*, **49**, 168 (1904).
 186. FEDOT'EV P. P., *Z. anorg. Chem.*, **73**, 178 (1911—1912).
 187. FEOFILAKTOV V. V., *Ber.*, **59B**, 2772 (1926).
 188. FIALKOV YA. A., MUZYKA I. D., *Zhur. Obshehei Khim.*, **18**, 1205 (1948).
 189. FILIPPOV T. S., FURMAN A. A., *Zhur. Priklad. Khim.*, **25**, 895 (1952).
 190. FROST O. I., *Zhur. Obshehei Khim.*, **6**, 1910 (1936).
191. KHAZANOVA N. E., *Trudy Gosudarst. Inst. Azotnoi Prom.*, **4**, 5 (1954).
 192. KHAZANOVA N. E., *Trudy Gosudarst. Inst. Azotnoi Prom.*, **4**, 17 (1954).
193. TSIKLIS D. S., *Zhur. Fiz. Khim.*, **20**, 181 (1946).
 194. TSIKLIS D. S., *Zhur. Fiz. Khim.*, **21**, 349 (1947).
 195. TSIKLIS D. S., *Zhur. Fiz. Khim.*, **21**, 355 (1947).
 196. TSIKLIS D. S., *Trudy Gosudarst. Inst. Azotnoi Prom.*, **3**, 12 (1951).
 197. TSIKLIS D. S., SVETLOVA G. M., *Zhur. Fiz. Khim.*, **22**, 1476 (1958).
 198. TSIKLIS D. S., SHVARTS YA. D., *Zhur. Fiz. Khim.*, **31**, 2302 (1957).
 199. TSIN, N. M., *Zhur. Fiz. Khim.*, **14**, 418 (1940).
200. CHUGAEV L. A., KILTINOVICH S. S., *J. Chem. Soc.*, **109**, 1286 (1916).
201. SHATENShteIN A. I., VIKTOROV M. M., *Zhur. Fiz. Khim.*, **11**, 18 (1938).
 202. SHATENShteIN A. I., MONOSZON A., *Z. anorg. Chem.*, **207**, 204 (1932).
 203. SHAKHPARONOV M. I., *Zhur. Obshehei Khim.*, **20**, 300 (1950).
 204. SHEKA Z. A., KRISSE E. E., *Zhur. Neorgan. Khim.*, **2**, 2819 (1957).
 205. SHISHOKIN V. P., *Izvest. Inst. Anal. Fiz. Khim. (Leningrad)*, **4**, 195 (1928).
 206. SHCHENNIKOVA M. K., DEVYATYKH G. G., KORSHUNOV I. A., *Zhur. Priklad. Khim.*, **30**, 833 (1957).
207. YATLOV V. S., POLYAKOVA E. M., *Zhur. Obshehei Khim.*, **8**, 774 (1938).
 208. YATLOV V. S., PINAEVSKAYA E. N., *Zhur. Obshehei Khim.*, **8**, 1665 (1938).

NON-SOVIET LITERATURE

209. ABE R., *J. Tokyo Chem. Soc.*, **32**, 980 (1911).
 210. ABEGG R., COX A. J., *Z. physik. Chem.*, **46**, 11 (1903).
 211. ABEGG R., SHERRILL M. S., *Z. Elektrochem.*, **9**, 550 (1903).
 212. ABEGG R., SPENCER, *Z. anorg. Chem.*, **46**, 406 (1905).
 213. ACREE S. F., SLAGLE E. A., *J. Am. Chem. Soc.*, **42**, 135 (1909).
 214. ADAMSKY R. F., WHEELER C. M., *J. Phys. Chem.*, **58**, 225 (1954).
 215. AGDE G., BARKHOLT H., *Z. angew. Chem.*, **39**, 851 (1926).
 216. AGENO F., VALLA E., *Atti Accad. nazl. Lincei*, **20**, 706 (1911).
 217. AKERLOF G., SHORT O., *J. Am. Chem. Soc.*, **59**, 1912 (1937).
 218. AKERLOF G., THOMAS H. C., *J. Am. Chem. Soc.*, **56**, 593 (1934).

219. ALBERTY R. A., WASHBURN E. R., *J. Phys. Chem.*, **49**, 4 (1945).
220. ALLUARD, *Compt. rend.*, **59**, 500 (1864).
221. ALMKVIST G., *Z. anorg. allgem. Chem.*, **103**, 240 (1918).
222. ALTSCHUL, *Monatsh. Chem.*, **17**, 575 (1896).
223. ALTSHULLER A. P., EVERSON H. E., *J. Am. Chem. Soc.*, **75**, 1727 (1953).
224. AMADORI M., *Gazz. chim. ital.*, **52**, 387 (1922).
225. AMAT, *Compt. rend.*, **106**, 1351 (1888).
226. ANDERSON E., STORY L. G., *J. Am. Chem. Soc.*, **45**, 1104 (1923).
227. ANDERSON L. H., JOST D. M., *J. Am. Chem. Soc.*, **60**, 1822 (1938).
228. ANDO K., *Biochem. Z.*, **173**, 426 (1926).
229. ANDREWS L. W., ENDE C., *Z. physik. Chem.*, **17**, 136 (1895).
230. ANELLI R., *Ind. Eng. Chem.*, **41**, 2031 (1949).
231. ANGELESCU E., *Bull. Soc. chim. (Roumania)*, **7**, 72 (1925).
232. ANON, *Pharm. J.*, **72**, 77 (1904).
233. d'ANS J., SIEGLER R., *Z. physik. Chem.*, **82**, 35 (1913).
234. ANSCHÜTZ R., KALLEN J., RIEPENKRÖGER K., *Ber.*, **52**, 1860 (1919).
235. VON ANTROPOFF A., *Proc. Roy. Soc.*, **83A**, 474 (1909—1910).
236. VON ANTROPOFF A., *Z. Elektrochem.*, **25**, 269 (1919).
237. VON ANTROPOFF A., *Z. Elektrochem.*, **30**, 457 (1924).
238. VON ANTROPOFF A., SOMMER W., *Z. physik. Chem.*, **123**, 161 (1926).
239. APPEBY M. P., DAVIES P. G., *J. Chem. Soc.*, **127**, 1836 (1925).
240. ARCHIBALD E. H., HALLETT L. T., *J. Am. Chem. Soc.*, **47**, 1314 (1925).
241. ARCHIBALD E. H., KERN J. W., *Trans. Roy. Soc. (Canada)*, (3), **11**, 7 (1917).
242. ARCHIBALD E. H., WILCOX W. G., BUCKLEY B. G., *J. Am. Chem. Soc.*, **30**, 747 (1908).
243. ARCHIBALD R. C., *J. Am. Chem. Soc.*, **54**, 3178 (1932).
244. ARCTOWSKI H., *Z. anorg. Chem.*, **6**, 267, 404 (1894).
245. ARCTOWSKI H., *Compt. rend.*, **121**, 123 (1895).
246. ARCTOWSKI H., *Z. anorg. Chem.*, **11**, 273 (1895).
247. ARGO W. L., JAMES E. M., DONNELLY J. L., *J. phys. Chem.*, **23**, 578 (1919).
248. ARII K., *Sci. Repts. Tohoku Univ.*, (1), **21**, 783 (1932).
249. VAN ARKEL A. E., VLES S. E., *Rec. trav. chim.*, **55**, 407 (1936).
250. ARMBRUSTER M. H., *J. Am. Chem. Soc.*, **65**, 1043 (1943).
251. ARNDT K., *Ber.*, **40**, 427 (1907).
252. ARNDT K., *Z. Elektrochem.*, **15**, 784 (1909).
253. ARRHENIUS S., *Z. physik. Chem.*, **11**, 396 (1893).
254. ARTMANN P., *Z. anorg. Chem.*, **79**, 333 (1912—1913).
255. ARTMANN P., *Z. anal. Chem.*, **54**, 90 (1915).
256. ASCHAN O., *Chem. Ztg*, **37**, 1117 (1913).
257. ASHTON F. W., HOUSTON D. F., SAYLOR C. P., *J. Research Natl. Bur. Standards* **11**, 233 (1933).
258. ASSELIN E., *Compt. rend.*, **76**, 884 (1873).
259. ATEN A. H. W., *Z. physik. Chem.*, **54**, 86, 124 (1905—1906).
260. ATKINSON R. H., HEYCOCK C. T., POPE W. J., *J. Chem. Soc.*, **117**, 1422 (1920).
261. ATTANE E. C., DOUMANI T. F., *Ind. Eng. Chem.*, **41**, 2015 (1949).
262. AUDRIETH L. F., BROWN A. W., MASON C., *J. Am. Chem. Soc.*, **52**, 2755 (1930).
263. AUDRIETH L. F., TOY, D. F., *J. Am. Chem. Soc.*, **64**, 1553 (1942).
264. AUERBACH F., BECK K., *Arb. Reichsgesundh.*, **57**, 24 (1926).
265. AUERBACH F., WEBER H., *Z. anorg. Chem.*, **147**, 68 (1925).
266. AUMERAS, *J. Chem. Phys.*, **24**, 548 (1927).
267. BAARS, *Samml. Chem. u. Chem. techn. Vortr.*, **29**, 304 (1927).
268. DE BAAT W. C., *Rec. trav. chim.*, **45**, 237 (1926).
269. BABERS F. H., *J. Am. Chem. Soc.*, **77**, 4666 (1955).
270. BACKER H. J., *Z. physik. Chem.*, **130**, 177 (1927).

271. BACKER H. J., *Rec. trav. chim.*, **48**, 616 (1929).
272. BACKER H. J., *Rec. trav. chim.*, **49**, 730 (1930).
273. BACKER H. J., *Terpstra P.*, *Rec. trav. chim.*, **48**, 952, 1175 (1929).
274. BAGGESGAARD-RASMUSSEN H., REIMERS E., *Arch. Pharm.*, **273**, 129 (1935).
275. BAHF F., *Z. anorg. Chem.*, **71**, 85 (1911).
276. BAILAR J. C., *Ind. Eng. Chem., Anal. Ed.*, **3**, 362 (1931).
277. BAILEY C. R., *J. Chem. Soc.*, **126**, 1943 (1925).
278. BAILEY C. R., *J. Chem. Soc.*, 1534 (1930).
279. BAILLY O., *Ann. chim. (Paris)* (9), **6**, 96 (1916).
280. BAILLY O., *Bull. soc. chim.*, (4), **25**, 240 (1919).
281. BAILLY O., GAUMÉ J., *Bull. soc. chim.*, **35**, 594 (1924).
282. BAKER J. W., MOFFITT W. G., *J. Chem. Soc.*, 1722 (1930).
283. BAKUNIN M., VITALE E., *Gazz. chim. ital.*, **65**, 593 (1935).
284. BALDSCHWICKER E. L., CASSAR H. A., *J. Am. Chem. Soc.*, **51**, 2969 (1929).
285. BANCROFT W. D., *Phys. Rev.*, **3**, 31, 122, 193, 205 (1895).
286. BAND, *Ann. chim. et phys.*, (8), **95** (1912).
287. BARKAN G., *Biochem. Z.*, **146**, 446 (1924).
288. BARKER T. V., *J. Chem. Soc.*, **93**, 15 (1908).
289. BARNES W. H., MAASS O., *Can. J. Res.*, **2**, 218 (1930).
290. BARONI T., BERLINETTI V., *J. farm. chim.*, **60**, 193 (1911).
291. BARRE M., *Compt. rend.*, **148**, 1604; **149**, 292 (1909).
292. BARRE M., *Ann. chim. et phys.*, (8), **24**, 149, 202 (1911).
293. BARRETT W. T., WALLACE W. E., *J. Am. Chem. Soc.*, **76**, 366 (1954).
294. BASKERVILLE C., COHEN P. W., *Ind. Eng. Chem.*, **13**, 333 (1921).
295. BASSETT H., *J. Chem. Soc.*, 1270 (1934).
296. BASSETT H., DODE M., *Compt. rend.*, **203**, 775 (1936).
297. BASSETT H., TAYLOR H. S., *J. Chem. Soc.*, **101**, 576 (1912).
298. BAND E., *Ann. chim. et phys.*, **8**, 95 (1912).
299. BAND E., *Compt. rend.*, **156**, 317 (1913).
300. BAUME G., ROBERT N., *Compt. rend.*, **169**, 968 (1919).
301. BAUP, *Ann. chim. et phys.*, (3), **53**, 468 (1858).
302. BAXTER G. P., BOYESTON A. C., HUBBARD R. A., *J. Am. Chem. Soc.*, **28**, 1343 (1906).
303. BEAL G. D., KATTI M. C. T., *J. Am. Pharm. Assoc.*, **14**, 868 (1925).
304. BECHOLD, ZIEGLER, *Z. angew. Chem.*, **23**, 29 (1910).
305. BECKMAN E., STOCK A., *Z. physik. Chem.*, **17**, 130 (1895).
306. BEDELL C., *Compt. rend.*, **207**, 632 (1938).
307. BEHREND R., *Z. physik. Chem.*, **10**, 265 (1892).
308. BELL E. V., BENNETT G. M., *J. Chem. Soc.*, **15**, (1929).
309. BELL H. C., *J. Chem. Soc.*, **123**, 2713 (1923).
310. BELL R. P., *J. Chem. Soc.*, 1371 (1931).
311. BELL W. R. G., ROWLANDS C. B., BAMFORD J. J., THOMAS W. G., JONES W. J., *J. Chem. Soc.*, 1927 (1930).
312. BELLICCI J., *Atti Acad. nazl. Lincei*, (5), **21**, II, 610 (1912).
313. BELLICCI J., *Gazz. chim. ital.*, **43**, I, 521 (1913).
314. BENESI H. A., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **70**, 3978 (1948).
315. BENNETT G., PHILIP W., *J. Chem. Soc.*, 1930 (1928).
316. BENRATH A., *Z. anorg. allg. Chem.*, **135**, 248 (1924).
317. BENRATH A., *Z. anorg. Chem.*, **163**, 396 (1927).
318. BENRATH A., *Z. anorg. Chem.*, **202**, 161 (1931).
319. BENRATH A., *Z. anorg. Chem.*, **208**, 169 (1932).
320. BENRATH A., AMER, G., *Z. anorg. Chem.*, **177**, 129 (1929).
321. BENRATH A., GJEDEBO F., SCHIFFERS B., WUNDERLICH H., *Z. anorg. Chem.*, **231**, 285 (1937).
322. BENRATH A., SCHIFFERS B., *Z. anorg. Chem.*, **240**, 67 (1938).

323. BENRATH A., TIEMANN W., *Z. anorg. Chem.*, **217**, 347 (1934).
324. BERGIUS F., *Z. physik. Chem.*, **72**, 338 (1910).
325. BERKELEY E., *Phil. Trans. Roy. Soc. London*, **203A**, 189, 215 (1904).
326. BERKELEY E., APPLEBY M. P., *Proc. Roy. Soc.*, **85**, 503 (1911).
327. BERNER E., RÜBER, *Ber.*, **54**, 1945 (1921).
328. BERTHOUD A., *Helv. Chim. Acta*, **12**, 859 (1929).
329. BERTSCH B., *Roczniki Chem.*, **6**, 705 (1926).
330. BEVADE J., *Bull. Soc. chim.*, **43**, 123 (1885).
331. BEZNER-LÖWY R., *Bull. Soc. chim. (Roumania)*, **5**, 81 (1923).
332. BILLITER J., *Monatsh. Chem.*, **41**, 287 (1920).
333. BIETE W., WILKE-DÖRFURT E., *Z. anorg. Chem.*, **48**, 297 (1906).
334. BILTZ W., *Z. physik. Chem.*, **43**, 42 (1903).
335. BILTZ H., HEYN M., *Ann. Chem. Liebigs*, **413**, 119 (1917).
336. BIRCKENBACH A., HÜTTNER K., *Z. anorg. Chem.*, **190**, 26 (1930).
337. BJERRUM N., JOSEFOWICZ E., *Z. physik. Chem.*, **159A**, 194 (1932).
338. LE BLANC M., NOYES A. A., *Z. physik. Chem.*, **6**, 386 (1890).
339. LE BLANC M., SMANDT W., *Z. physik. Chem.*, **77**, 621 (1911).
340. BLANKSMA J. J., *Chem. Weekblad.*, **7**, 418 (1910).
341. BLANKSMA J. J., *Chem. Weekblad.*, **9**, 924 (1912).
342. BLAREZ, DENIGES, *Compt. rend.*, **104**, 1847 (1887).
343. BODLÄNDER G., *Z. physik. Chem.*, **27**, 66 (1898).
344. BÖDTKER E., *Z. physik. Chem.*, **22**, 510, 570 (1897).
345. BOECKE H. E., *Sitzber. Akad. Wiss. (Berlin)*, **24**, 632 (1911).
346. BOEDEKER E. R., LYNCH C. C., *J. Am. Chem. Soc.*, **72**, 3234 (1950).
347. DE BOER J. H., VAN LIEMPT J. A. M., *Rec. trav. chim.*, **46**, 124 (1927).
348. BOESCKEN J., CARRIERE, *Rec. trav. chim.*, **34**, 181 (1915).
349. BOGERT M. T., EHRLICH J., *J. Am. Chem. Soc.*, **41**, 741 (1919).
350. BOGDAN P., *Ann. sci. univ. Jassy*, **2**, 47 (1902—3).
351. BOHON R. L., CLAUSSEN W. P., *J. Am. Chem. Soc.*, **73**, 1571 (1951).
352. BOHR C., *Wied. ann. Phys.*, (3), **68**, 503 (1899).
353. BOHR C., *Wied. ann. Phys.*, (4), **1**, 247 (1900).
354. BOHR C., BOCK, *Wied. ann. Phys.*, (2), **44**, 318 (1891).
355. BOND P. A., BEACH H. T., *J. Am. Chem. Soc.*, **48**, 348 (1926).
356. BOND P. A., BELTON W. E., *J. Am. Chem. Soc.*, **67**, 1691 (1945).
357. BOND P. A., CRONE E. B., *J. Am. Chem. Soc.*, **56**, 2028 (1934).
358. BOND P. A., STEPHENS W. R., *J. Am. Chem. Soc.*, **51**, 2910 (1929).
359. BONNELL D. K. G., JONES W. J., *J. Chem. Soc.*, **129**, 318 (1926).
360. BOOTH H. S., MARTIN D. R., *J. Am. Chem. Soc.*, **64**, 2198 (1942).
361. BOOTH H. S., WALKUP J. H., *J. Am. Chem. Soc.*, **65**, 2334 (1943).
362. BORNWATER J. T., HOLLEMAN A. F., *Rec. trav. chim.*, **31**, 230 (1912).
363. BÖTTGER W., *Z. physik. Chem.*, **46**, 521 (1903).
364. BÖTTGER W., *Z. physik. Chem.*, **56**, 93 (1906).
365. LE BOUCHER L., *Anal. Soc. fis. quim.*, (Madrid), **24**, 95, 277 (1926).
366. BOULIN CH., SIMON L. J., *Compt. rend.*, **170**, 394, 845 (1920).
367. BORGAIN, *Ann. chim. et phys.*, (5), **13**, 406; **15**, 165 (1878).
368. BOURGAIN, *Bull. Soc. chim.*, (2), **42**, 620 (1884).
369. BOURGAIN A., *Bull. Soc. chim. (Belges)*, **33**, 101 (1924).
370. BOUSFIELD W. R., *J. Chem. Soc.*, **115**, 54 (1919).
371. BOUTARIC A., *J. chim. phys.*, **18**, 126 (1920).
372. BOUTARIC A., CORBET G., *Compt. rend.*, **183**, 42 (1926).
373. BOWDEN S. T., PURNELL J. H., *J. Chem. Soc.*, 535 (1954).
374. BOYE E., *Z. anorg. Chem.*, **215**, 75 (1933).
375. BOYE E., *Z. anorg. Chem.*, **216**, 29 (1934).
376. BOYLE M., *J. Chem. Soc.*, **95**, 1696 (1909).
377. BOYLE M., *J. Chem. Soc.*, **115**, 1505 (1919).

378. BOYLE R. W., *Phil. Mag.*, (6), **22**, 840 (1911).
379. BRADBURY E. I., MACNULTY D., SAVAGE R. L., MACSWEENEY E. E., *Ind. Eng. Chem.*, **44**, 211 (1952).
380. BRAHAM J. M., *J. Am. Chem. Soc.*, **42**, 1710 (1919).
381. BRAUN, *Z. physik. Chem.*, **33**, 732 (1900).
382. BRAUNSCHEWIG M., *Tables. Annuel.*, **5**, 922 (1926).
383. BRAY W. C., *Z. physik. Chem.*, **54**, 569 (1905—1906).
384. BRECK D. W., HARWEY J. L., HAENDLER H. M., *J. Phys. & Colloid Chem.*, **53**, 906 (1949).
385. BREDIG G., JOYNER R. A., *Z. Elektrochem.*, **24**, 294 (1918).
386. BRESLER, *Z. physik. Chem.*, **47**, 613 (1904).
387. BREUNER G., *Tabell. Annuel.*, **5**, 922 (1926).
388. BRIDEL M., PICARD P., *J. pharm. chim.*, (8), **3**, 49 (1926).
389. BRIDGMAN J. A., *Ind. Eng. Chem.*, **20**, 184 (1928).
390. BRIEGLEB, *Ann. Chem. Liebig's*, **97**, 95 (1856).
391. BRIGGS T. R., *J. physik. Chem.*, **34**, 2260 (1930).
392. BRIGHT J. R., FERNELIUS W. C., *J. Am. Chem. Soc.*, **65**, 637 (1943).
393. BRINER E., PERROTET E., *Helv. Chim. Acta*, **22**, 397 (1939).
394. BRINTON P. H., *J. Am. Chem. Soc.*, **38**, 2365 (1916).
395. BRITTON H. T. S., *J. Chem. Soc.*, **125**, 1875 (1924).
396. BRÖNSTED J. N., *Z. physik. Chem.*, **55**, 377 (1906).
397. BRÖNSTED J. N., *Tabell. Annuel.*, **5**, 922 (1926).
398. BRÖNSTED J. N., VOLQUARTZ K., *Z. physik. Chem.*, **134**, 97 (1928).
399. BROOKE M., *J. Am. Chem. Soc.*, **72**, 5748 (1950).
400. BROOME F. K., HARWOOD H. J., *J. Am. Chem. Soc.*, **72**, 3257 (1950).
401. BROUWER S., *Bull. Soc. chim. (Belg.)*, **39**, 298 (1930).
402. BROWN H. C., BRADY J. D., *J. Am. Chem. Soc.*, **74**, 3570 (1952).
403. BROWN H. C., MEAD E. J., *J. Am. Chem. Soc.*, **78**, 3614 (1956).
404. BROWN J. C., *J. Chem. Soc.*, **91**, 1826 (1907).
405. BROWNING, HUTCHINS, *Z. anorg. Chem.*, **22**, 380 (1900).
406. BRUNER, ST. TOLLOCZKO, *Z. anorg. Chem.*, **37**, 456 (1903).
407. BRUNI G., *Atti Accad. nazl. Lincei*, (5), **30**, 1, 75 (1921).
408. BRUNI G., PELIZZOLA C., *Atti Accad. nazl. Lincei* (5), **30**, 159 (1921).
409. DE BRUYN C. A. L., *Rec. trav. chim.*, **9**, 188 (1890).
410. DE BRUYN C. A. L., *Rec. trav. chim.*, **11**, 29, 112 (1892).
411. DE BRUYN C. A. L., *Z. physik. Chem.*, **10**, 781 (1892).
412. DE BRUYN C. A. L., *Rec. trav. chim.*, **13**, 116, 150 (1894).
413. DE BRUYN C. A. L., *Rec. trav. chim.*, **21**, 129 (1902).
414. DE BRUYN C. A. L., *Rec. trav. chim.*, **22**, 411 (1903).
415. DE BRUYN C. A. L., VAN EKENSTEIN W. A., *Rec. trav. chim.*, **19**, 7 (1900).
416. BUCHANAN G. H., WINNER G. B., *Ind. Eng. Chem.*, **12**, 448 (1920).
417. BÜCHNER E. H., *Sitzber. Akad. Wiss. (Wien)*, **52**, 2, 644 (1865).
418. BÜCHNER E. H., *Z. physik. Chem.* **54**, 665 (1905—1906).
419. BÜCHNER E. H., KARSTEN B. J., *Proc. Koninkl. Akad. Wetenschap (Amsterdam)*, **11**, 504 (1908—1909).
420. BÜCHNER E. H., KLEYN D., *Rec. trav. chim.*, **43**, 153 (1924).
421. BÜCHNER E. H., PRINS A., *Z. physik. Chem.*, **81**, 113 (1912—1913).
422. BÜCHNER H. T., WAHLE R., *J. prakt. Chem.*, (2), **103**, 129 (1921).
423. BUCKLEY P., HARTLEY H., *Phil. Mag.*, **8**, 320 (1929).
424. BUELL H. D., MACCROSKY C. R., *J. Am. Chem. Soc.*, **43**, 2031 (1921).
425. BUNGENBURG DE YONG H. G., HOLLEMAN L. W. J., *Proc. Koninkl. Akad. Wetenschap (Amsterdam)*, **40**, 69 (1937).
426. BUNSEN, *Pogg. Ann.*, **113**, 337 (1861).
427. BUNSEN R., *Gasometrische Methoden*. 2. Ed. (1877).
428. BUNSEN-HEURICH, *Z. physik. Chem.*, **9**, 439 (1892).

429. BUREAU J., *Ann. chim.*, **8**, 97 (1937).
430. BURKHARDT G. N., LAPWORTH A., *J. Chem. Soc.*, **129**, 684 (1926).
431. BURKHARDT L. A., *J. Phys. Chem.*, **61**, 1445 (1957).
432. BURY C. R., *J. Chem. Soc.*, **125**, 2538 (1924).
433. BUSCH W., *Z. anorg. Chem.*, **161**, 161 (1927).
434. BUTLER E. B., MILES C. B., KUHN C. S., *Ind. Eng. Chem.*, **38**, 147 (1946).
435. BUTLER J. A., THOMSON D. W., MACLENNON W. H., *J. Chem. Soc.*, 674 (1933).
436. BUXHOEVDEN, TAMMAN, *Z. anorg. Chem.*, **15**, 319 (1897).
437. CADE G. N., DUNN R. E., HEPP H. J., *J. Am. Chem. Soc.*, **68**, 2454 (1946).
438. CADENHEAD A. F. G., VINING W. H., *Can. Chem. Met.*, **8**, 64 (1924).
439. CADY G. H., *J. Am. Chem. Soc.*, **56**, 1431 (1934).
440. CADY G. H., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **52**, 3843 (1930).
441. CALINGAERT G., LAMB F. W., MEYER F., *J. Am. Chem. Soc.*, **71**, 3709 (1949).
442. CALZOLARI F., *Gazz. chim. ital.*, **42**, 85 (1912).
443. CAMERON, SEIDEL A., *J. Am. Chem. Soc.*, **26**, 1460 (1904).
444. CAMPBELL A. N., *J. Chem. Soc.*, 1111 (1929).
445. CAMPBELL A. N., CAMPBELL J. R., *J. Am. Chem. Soc.*, **59**, 2481 (1937).
446. CAMPBELL A. N., HICKMAN J. B., *J. Am. Chem. Soc.*, **75**, 2879 (1953).
447. CAMPBELL A. N., PRODON L. A., *J. Am. Chem. Soc.*, **70**, 553 (1948).
448. CAMPBELL A. N., SLOTIN L., *J. Am. Chem. Soc.*, **55**, 3961 (1933).
449. CAMPBELL A. N., WOOD J. H., SKINNER G. B., *J. Am. Chem. Soc.*, **71**, 1729 (1949).
450. CAMPETTI, DEL GROSSO C., *Nuovo cimento*, (6), **6**, 379 (1913).
451. CANNERI G., BIGALLI D., *Ann. chim. appl.*, **26**, 430 (1936).
452. CANTONI H., BASADONNA, *Bull. Soc. chim.*, (3), **35**, 731 (1906).
453. CANTONI H., DIOTALEVI D., *Bull. Soc. chim.*, (3), **33**, 27 (1905).
454. CANTONI H., ZACHODER, *Bull. Soc. chim.*, (3), **33**, 747 (1905).
455. DI CAPUA C., *Gazz. chim. ital.*, **59**, 164 (1929).
456. DE CARLI F., *Gazz. chim. ital.*, **57**, 347 (1927).
457. DE CARLI F., *Ann. chim. appl.*, **21**, 447 (1931).
458. CARLISLE P. J., LEVINE A. A., *Ind. Eng. Chem.*, **24**, 1164 (1932).
459. CARLSON B., *Tabell. Annuel.*, **1**, 379 (1910).
460. CARLSON B., *Klason-Festschrift (Stockholm)*, 247 (1910).
461. CARNELLY, *J. Chem. Soc.*, (2), **11**, 323 (1873).
462. CARNELLY, THOMSON, *J. Chem. Soc.*, **53**, 768 (1888).
463. CARR F. H., PYMAN F. L., *J. Chem. Soc.*, **105**, 1602 (1914).
464. CARRICA L. L., *J. Phys. Chem.*, **25**, 628 (1921).
465. CARPENTER D. C., MACK G. L., *J. Am. Chem. Soc.*, **56**, 311 (1934).
466. CARTER R. H., *Ind. Eng. Chem.*, **20**, 1195 (1928).
467. CARTER R. H., *Ind. Eng. Chem.*, **22**, 886 (1930).
468. CARTER S. R., MEGSON N. Y. L., *J. Chem. Soc.*, **131**, 2954 (1928).
469. CASALE L., *Gazz. chim. ital.*, **47**, 1, 272; **11**, 63 (1917); **48**, 1, 114 (1918).
470. CAUQUIL G., *J. Chem. Phys.*, **24**, 53 (1927).
471. CAVEN R. M., *J. Chem. Soc.*, 2417 (1932).
472. CENTNERSZWER M., TELETOW J., *Z. Elektrochem.*, **9**, 799 (1903).
473. CHADWELL H. M., *J. Am. Chem. Soc.*, **49**, 2795 (1927).
474. CHAMBERLAIN N. H., HUME J., TOPLEY B., *J. Chem. Soc.*, **129**, 2620 (1926).
475. CHAMBON M., BOUVIER J., DURON P., *J. pharm. chim.*, **26**, 216 (1937).
476. CHANCEL, PARMENTIER, *Compt. rend.*, **100**, 773 (1885).
477. CHANEY A. L., MANN C. A., *J. Phys. Chem.*, **35**, 2289 (1931).
478. CHAPAS M., *Compt. rend.*, **191**, 43, 257 (1921).
479. CHAPAS M., *Compt. rend.*, **174**, 610 (1922).
480. CHAPMAN R. P., AVERALL P. R., HARRIS R. R., *Ind. Eng. Chem.*, **35**, 137 (1943).
481. CHARONNAT R., *Compt. rend.*, **185**, 284 (1927).
482. CHASSEVENT L., *Ann. chim.*, (10), **6**, 272, 313 (1926).

483. CHATTAWAY F. D., CURJEL W. R. C., *J. Chem. Soc.*, **129**, 3510 (1926).
 484. CHATTAWAY F. D., LAMBERT W., *J. Chem. Soc.*, **107**, 1768 (1915).
 485. CHATTAWAY F. D., WALKER A. J., *J. Chem. Soc.*, **125**, 1207 (1924).
 486. CHÉNEVEAU C., *Compt. rend.*, **174**, 815, 1019 (1922).
 487. CHIADAO CHEN, DAUBERT B. F., *J. Am. Chem. Soc.*, **67**, 1256 (1945).
 488. CHIPMAN J., *J. Am. Chem. Soc.*, **46**, 2445 (1924).
 489. CHLOUPEK J. B., DANES V. Z., *Coll. Czechoslov. Chem. Commun.*, **4**, 8 (1932).
 490. CHOUDOUNSKY, *Chem. listy*, **13**, 114 (1888).
 491. CHRETIEN A., WEIL R., *Bull. soc. chim.*, (5), **2**, 1577 (1935).
 492. CHRISTENSEN, *J. Prakt. Chem.*, (2), **31**, 166 (1885).
 493. CHRISTOFF A., *Z. physik. Chem.*, **79**, 459 (1912).
 494. CHRISTOMANOS, *Z. anorg. Chem.*, **45**, 136 (1905).
 495. CINGOLANI M., *Gazz. chim. ital.*, **38**, 1, 305 (1908).
 496. CLARK J. M., *Ind. Eng. Chem.*, **11**, 204 (1919).
 497. CLAUSSEN W. F., POLGLASE M. F., *J. Am. Chem. Soc.*, **74**, 4817 (1952).
 498. CLEVE A., *Bull. Soc. chim.*, (2), **43**, 166 (1885).
 499. CLEVE A., *Z. anorg. Chem.*, **32**, 157 (1902).
 500. CLEVER H. L., *J. Phys. Chem.*, **61**, 1082 (1957).
 501. CLEVER H. L., *J. Phys. Chem.*, **62**, 375 (1958).
 502. CLEVER H. L., BATTINO R., SAYLOR J. H., GROSS P. M., *J. Phys. Chem.*, **61**, 1078 (1957).
 503. CLIFFORD C. W., *Ind. Eng. Chem.*, **13**, 628 (1921).
 504. CLIFFORD I. L., HUNTER E., *J. Phys. Chem.*, **37**, 101 (1933).
 505. COATES J. E., HARTSHORNE N. H., *J. Chem. Soc.*, 657 (1931).
 506. COFMAN V., *Gazz. chim. ital.*, **50**, 11, 296 (1920).
 507. COHEN E., HETTERSCHY B. W. D., MOESVELD A. L. T., *Z. physik. Chem.*, **94**, 224 (1920).
 508. COHEN E., INOUE K., *Z. physik. Chem.*, **72**, 411 (1910).
 509. COHEN E., DE MEESTER W. A. T., MOESVELD A. L., *Z. physik. Chem.*, **112**, 150 (1924).
 510. COHEN E., DE MEESTER W. A. T., MOESVELD A. L., *Z. physik. Chem.*, **114**, 321 (1924—1925).
 511. COHEN E., MOESVELD A. L., *Z. physik. Chem.*, **93**, 385 (1919).
 512. COHEN E., MOESVELD A. L., *Proc. Acad. Sci. (Amsterdam)*, **28**, 461 (1925).
 513. COHEN E., VOLLER D. H. P., MOESVELD A. L., *Z. physik. Chem.*, **104**, 323 (1923).
 514. COHEN E., WOLTERS J. J., *Z. physik. Chem.*, **96**, 256 (1920).
 515. COHN E. J., *J. Gen. Physiol.*, **5**, 521 (1923).
 516. COHN E. J., MACMEEKIN T. L., GREENSTEIN J. C., WEARE J. H., *J. Am. Chem. Soc.*, **58**, 2365 (1936).
 517. COLANI A., *Bull. Soc. chim.*, (4), **37**, 856 (1925).
 518. COLE H. J., *Philippine J. Sci.*, **47**, 351 (1932).
 519. COLLETT A. R., JOHNSTON J., *J. Phys. Chem.*, **30**, 70 (1926).
 520. COLLETT A. R., LAZZELL C. L., *J. Phys. Chem.*, **34**, 1838 (1930).
 521. DE CONNICK O., *Compt. rend.*, **116**, 758 (1893).
 522. DE CONNICK O., *Compt. rend.*, **118**, 471 (1894).
 523. DE CONNICK O., *Compt. rend.*, **130**, 1304; **131**, 59, 1219 (1900).
 524. DE CONNICK O., *Ann. chim. phys.*, (7), **28**, 7 (1903).
 525. DE CONNICK O., *Bull. acad. roy. (Belg.)*, **257**, 359 (1905).
 526. DE CONNICK O., *Chem. Zbl.*, **76**, 883 (1905).
 527. DE CONNICK O., *Compt. rend.*, **142**, 571 (1906).
 528. CONRAD F. H., BEUSCHLEIN W. L., *J. Am. Chem. Soc.*, **56**, 2554 (1934).
 529. COOLEY R. A., BANKS H. O., *J. Am. Chem. Soc.*, **73**, 4022 (1951).
 530. COPEMAN D. A., *J. S. African Chem. Inst.*, **19**, 1, 17 (1936).
 531. COPISAROW M., *Chem. News*, **112**, 247 (1915).
 532. COPLEY M. J., ZELHOEFER G. F., MARVEL C. S., *J. Am. Chem. Soc.*, **61**, 3550 (1939).

533. COPLEY M. J., GINSBERG E., ZELHOFER G. F., MARVEL C. S., *J. Am. Chem. Soc.*, **63**, 254 (1941).
534. DE COPPET L. C., *Ann. chim. et phys.*, (5), **30**, 417 (1883).
535. CORBETT J. D., WINBUSH S., *J. Am. Chem. Soc.*, **77**, 3964 (1955).
536. CORBETT J. D., WINBUSH S., ALBERS F. C., *J. Am. Chem. Soc.*, **79**, 3020 (1957).
537. CORNEC E., DICKELEY J., *Compt. rend.*, **184**, 1555 (1927).
538. CORNOG J., BAUER E. E., *J. Am. Chem. Soc.*, **64**, 2620 (1942).
539. CORNOG J., OLSON L. E., *J. Am. Chem. Soc.*, **62**, 3328 (1940).
540. CORSON B. B., SANBORN N. E., VAN ESS P. R., *J. Am. Chem. Soc.*, **52**, 1623 (1930).
541. COSSA A. *Ber.*, **1**, 138 (1868).
542. COUCH J. F., *Am. J. Pharm.*, **89**, 243 (1917).
543. COURTOIS, *Compt. rend.*, **158**, 1511 (1914).
544. COURTONNE H., *Ann. chim. phys.*, (5), **12**, 569 (1877).
545. COURTOT CH., *Ann. chim.*, (10), **14**, 5 (1930).
546. COX A. L., DE VRIES T. J., *Phys. & Colloid et Chem.*, **54**, 665 (1950).
547. COX G. J., DODDS M. L., CLASPER C., *J. Am. Pharm. Assoc.*, **23**, 662 (1934).
548. COX H. L., CRETCHER L. H., *J. Am. Chem. Soc.*, **48**, 451 (1926).
549. COX H. L., NELSON W. L., CRETCHER L. H., *J. Am. Chem. Soc.*, **49**, 1080 (1927).
550. COX J. D., *J. Chem. Soc.*, 3183 (1954).
551. CRANSTON J. A., LIVINGSTONE A. J., *J. Chem. Soc.*, **129**, 501 (1926).
552. CREIGHTON H. J. M., WARD W. H., *J. Am. Chem. Soc.*, **37**, 2333 (1915).
553. CREMER H. W., DUNCAN D. R., *J. Chem. Soc.*, 2243 (1931).
554. CREW M. C., STEINERT H. E., HOPKINS B. S., *J. Phys. Chem.*, **29**, 34 (1925).
555. CRISMER L., TIMMERMANS J., *Bull. Soc. chim.*, **29**, 28 (1920).
556. CROOKES W., *J. Chem. Soc.*, **2**, 134 (1864).
557. CROOKES W., *Chem. News*, **9**, 37, 205 (1864).
558. CROWELL R. D., *J. Am. Chem. Soc.*, **40**, 455 (1918).
559. CUPR V., *Rec. trav. chim.*, **47**, 55 (1928).
560. CUPR V., *Z. anal. Chem.*, **76**, 177 (1929).
561. CURTIUS TH., RISSOM J., *J. Prakt. Chem.*, (2), **58**, 277 (1898).
562. CUVELIER B. V. J., *Natuurw. Tijdschr.*, **15**, 177 (1933).
563. CUVELIER B. V. J., *Z. anorg. Chem.*, **226**, 197 (1936).
564. DALMAN L. H., *J. Am. Chem. Soc.*, **59**, 775 (1937).
565. DALMAN L. H., *J. Am. Chem. Soc.*, **59**, 2547 (1937).
566. DALTON J. B., SCHMIDT C. L. A., *J. Biol. Chem.*, **103**, 549 (1933).
567. DALTON J. B., SCHMIDT C. L. A., *J. Biol. Chem.*, 241 (1935).
568. DANIELS T. C., LYONS R. E., *J. Phys. Chem.*, **35**, 2049 (1931).
569. DAVIDSON A. W., MACALLISTER W. H., *J. Am. Chem. Soc.*, **52**, 507 (1930).
570. DAVIDSON A. W., CHAPPELL W., *J. Am. Chem. Soc.*, **55**, 3531, 4524 (1933).
571. DAVIDSON A. W., CHAPPELL W., *J. Am. Chem. Soc.*, **60**, 2043 (1938).
572. DAVIDSON A. W., CHAPPELL W., *J. Am. Chem. Soc.*, **61**, 2164 (1939).
573. DAVIDSON A. W., GEER H. A., *J. Am. Chem. Soc.*, **55**, 642 (1933).
574. DAVIDSON A. W., GEER H. A., *J. Am. Chem. Soc.*, **60**, 1211 (1938).
575. DAVIDSON A. W., GRISWOLD E., *J. Am. Chem. Soc.*, **53**, 1341 (1941).
576. DAVIDSON A. W., HOLM V., *J. Am. Chem. Soc.*, **53**, 1350 (1931).
577. DAVIDSON A. W., LANNING W. C., ZELLER M. M., *J. Am. Chem. Soc.*, **64**, 1523 (1942).
578. DAVIDSON A. W., RAMSKILL E. A., *J. Am. Chem. Soc.*, **63**, 1221 (1941).
579. DAVIDSON A. W., SISLER H. H., STOENNER R., *J. Am. Chem. Soc.*, **66**, 779 (1944).
580. DAVIDSON A. W., WRAGE W., *Chem. Rev. Fett.-u. Harzind.*, **22**, 9 (1915).
581. DAVIS T. W., RICCI J. E., *J. Am. Chem. Soc.*, **61**, 746 (1939).
582. DAWSON H. M., *J. Chem. Soc.*, **95**, 874 (1909).
583. DAWSON, WILLIAMS, *Z. physik. Chem.*, **31**, 63 (1899).
584. DEAN M. R., WALLS W. S., *Ind. Eng. Chem.*, **39**, 1049 (1947).

585. DEHN W. M., *J. Am. Chem. Soc.*, **39**, 1400 (1917).
 586. DELAPLACE R., *J. pharm. chim.*, (7), **26**, 139 (1922).
 587. DELEPINE M., *J. pharm. chim.*, (5), **25**, 496 (1892).
 588. DELEPINE M., *Bull. Soc. chim.*, (3), 353 (1895).
 589. DELEPINE M., *Bull. Soc. chim.*, (4), **3**, 904 (1908).
 590. DEMARCAÏ, *Compt. rend.*, **96**, 1860 (1883).
 591. DEMASSIEUX N., *Ann. chim.*, (9), **20**, 233 (1923).
 592. DENHAM H. G., *J. Chem. Soc.*, **113**, 249 (1918).
 593. DENNIS, L. M., BRIDGMANN J. A., *J. Am. Chem. Soc.*, **40**, 1557 (1918).
 594. DERICK C. G., KAMM O., *J. Am. Chem. Soc.*, **38**, 415 (1916).
 595. DERRIEN, *Compt. rend.*, **130**, 722 (1900).
 596. DESAI P. G., PATEL A. M., *J. Indian Chem. Soc.*, **12**, 131 (1935).
 597. DESSART A., *Bull. Soc. chim. (Belg.)*, **35**, 9 (1926).
 598. DESVERGNES L., *Ann. chim. anal.*, (2), **2**, 279 (1920).
 599. DESVERGNES L., *Moniteur sci.*, (5), **14**, 121, 249 (1924).
 600. DESVERGNES L., *Moniteur sci.*, (5), **15**, 73, 149 (1925).
 601. DESVERGNES L., *Moniteur sci.*, (5), **16**, 201 (1926).
 602. DESVERGNES L., *Rev. chim. ind.*, **36**, 194, 224 (1927).
 603. DESVERGNES L., *Ann. chim. anal.* (3), **10**, 226, 253 (1928).
 604. DESVERGNES L., *Chim. et Industr.*, **25**, 3 (1931).
 605. DESVERGNES L., *Chim. et Industr.*, **26**, 71, 183 (1931).
 606. DIBITZ, *Z. anal. Chem.*, **13**, 139 (1874).
 607. DICE M. E., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **50**, 3023 (1928).
 608. DIEPEN G. A. M., SCHEFFER F. E. G., *J. Am. Chem. Soc.*, **70**, 4085 (1948).
 609. DIEPEN G. A. M., SCHEFFER F. E. G., *J. Phys. Chem.*, **57**, 575 (1953).
 610. DIETZ, *Wiss. Abhandl. Reichsanstalt.*, **3**, 433 (1900).
 611. DIETZEL R., SEDLMAYER J., *Arch. Pharm.*, **266**, 507 (1928).
 612. DITMAR, *J. Soc. Chem. Ind.*, **7**, 730 (1888).
 613. DITTRICH C., *Z. physik. Chem.*, **29**, 485 (1899).
 614. DOBBINS J. T., ADDLESTON J. A., *J. Phys. Chem.*, **39**, 637 (1935).
 615. DODGE F. D., *J. Am. Chem. Soc.*, **40**, 1917 (1918).
 616. DOLINSKI J. H., *Ber.*, **38**, 1835 (1905).
 617. DONK A. D., *Chem. Weekblad*, **5**, 529, 629, 767 (1908).
 618. DONNAN F. G., BURT B. C., *J. Chem. Soc.*, **83**, 335 (1903).
 619. DORFMAN M. E., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **49**, 729 (1927).
 620. DORNTE R. W., FERGUSON C. V., *Ind. Eng. Chem.*, **31**, 112 (1939).
 621. DOTT D. B., *Pharm.*, **76**, 345 (1906).
 622. DOTT D. B., *Pharm. J.*, **85**, 795 (1910).
 623. DOTT D. B., *Pharm. J.*, **88**, 424 (1912).
 624. DOTT D. B., *Pharm. J.*, **108**, 64, 87 (1922).
 625. DOYER J. M., *Z. physik. Chem.*, **6**, 481 (1890).
 626. DRAPER, *Chem. News*, **55**, 169 (1887).
 627. DREYER F., ROTARSKI, *Chem. Zbl.*, **76**, 11, 1016 (1905).
 628. DRINKARD W. C., KOSOLAPOFF G. M., *J. Am. Chem. Soc.*, **74**, 5520 (1952).
 629. DRUCE J. G. F., *Chem. News*, **117**, 346 (1918).
 630. DRUCKER C., *Rec. trav. chim.*, **42**, 552 (1923).
 631. DRUCKER K., *Z. anorg. Chem.*, **28**, 362 (1901).
 632. DRUCKER K., MOLES E., *Z. physik. Chem.*, **75**, 405 (1910).
 633. DUBOIN A., *Compt. rend.*, **141**, 385 (1905).
 634. DUBOIS C., PADE L., *Bull. Soc. chim. (France)*, (2), **44**, 187, 602 (1885).
 635. DUBOUX M., CUTTAT L., *Helv. Chim. Acta*, **4**, 735 (1921).
 636. DUBROCA M., *J. Chim. Phys.*, **5**, 463 (1907).
 637. DU BROW P. L., HOERR C. W., HARWOOD H. J., *J. Am. Chem. Soc.*, **74**, 6241 (1952).
 638. DUCLAUX J., DURAND-GASSELIN A., *J. Chim. Phys.*, **35**, 189 (1938).
 639. DUFRAISSE C., GILLET A., *Ann. chim.*, (10), **11**, 1 (1929).

640. DUNDON M. L., HENDERSON W. E., *J. Am. Chem. Soc.*, **44**, 1196 (1922).
 641. DUNN, *Chem. News*, **45**, 272 (1882).
 642. DUPRE, BIALAS, *Z. angew. Chem.*, **16**, 55 (1903).
 643. DUTILH H., *Verhandel. Koninkl. Akad. Wetenschap. (Amsterdam)*, **11**, 4, 60 (1912).
 644. DYKE R. E. V., KRAUS C. A., *J. Am. Chem. Soc.*, **71**, 2694 (1949).
645. EARLE J. C., *J. Soc. Chem. Ind.*, **37**, 274 (1918).
 646. EBELMEN, *Ann. Chem. Liebigs*, (3), **5**, 189 (1852).
 647. ECKFELDT E. L., LUCASSE W. W., *J. Phys. Chem.*, **47**, 164 (1943).
 648. EDER, *Dinglers Polytech. J.*, **221**, 89, 189 (1876).
 649. EDER, *J. Prakt. Chem.*, (2), **17**, 45 (1878).
 650. EICHELBERGER W. C., *J. Am. Chem. Soc.*, **56**, 801 (1934).
 651. ELGERSMA J. H., *Rec. trav. chim.*, **48**, 765 (1929).
 652. ELÖD E., TREMMEL K., *Z. anorg. Chem.*, **165**, 161 (1927).
 653. EMERY W. O., WRIGHT C. D., *J. Am. Chem. Soc.*, **43**, 2323 (1921).
 654. EMICH, *Monatsh. Chem.*, **3**, 336 (1884).
 655. ENDREY A., *Z. anorg. Chem.*, **217**, 59 (1934).
 656. ENELL, *Z. anal. Chem.*, **38**, 386 (1899).
 657. ENGEL, *Ann. Chim. (et Phys.)*, (6), **13**, 348 (1888).
 658. ENGEL, *Ann. Chim. (et Phys.)*, (6), **17**, 347 (1889).
 659. ENGLISH S., TURNER W. E. S., *J. Chem. Soc.*, **107**, 774 (1915).
 660. EPHRAIM F., MOSIMANN P., *Ber.*, **55B**, 1608 (1922).
 661. EPHRAIM F., PFISTER A., *Helv. Chim. Acta*, **8**, 229, 369 (1925).
 662. EPHRAIM F., SEGER E., *Helv. Chim. Acta*, **8**, 724 (1925).
 663. ETARD, *Compt. rend.*, **84**, 1090 (1877).
 664. ETARD, *Compt. rend.*, **98**, 1434 (1884).
 665. ETARD, *Compt. rend.*, **113**, 699 (1891).
 666. ETARD, *Ann. Chim. et (Phys.)*, (7), **2**, 526; **3**, 275 (1894).
 667. ETARD, *Ann. Chim. et (Phys.)*, (7), **2**, 540 (1894).
 668. ETARD, *Ann. Chim. et (Phys.)*, (7), **2**, 563 (1894).
 669. EULER H., LÖWENHAMM E., *Chem. Abs.*, **10**, 3021 (1916).
 670. EULER H., RUDBERG K., *Arkiv Kemi. Mineral Geol.*, **9**, 1, (1924).
 671. EULER H., RUDBERG K., *Z. physiol. Chem.*, **140**, 113 (1924).
 672. EVANS T. W., *Ind. Eng. Chem.*, **8**, 206 (1936).
 673. EVANS W. V., AYLESWORTH M. B., *Ind. Eng. Chem.*, **18**, 24 (1926).
 674. EVERSON H. E., ALBRECHT W. M., *J. Phys. et Colloid Chem.*, **55**, 1381 (1951).
 675. EVERTZ C. R., LIVINGSTON R., *J. Phys. et Colloid Chem.*, **53**, 1330 (1949).
 676. EWERT M., *Bull. Soc. chim. (Belg.)*, **46**, 90 (1937).
 677. EWING W. W., BRANDER J. D., SLICHTER C. B., GRIESINGER W. K., *J. Am. Chem. Soc.*, **55**, 4822 (1933).
 678. EWING W. W., MACGOVERN J. J., MATHEWS G. E., *J. Am. Chem. Soc.*, **55**, 4827 (1933).
 679. EWINS A. J., *J. Chem. Soc.*, **105**, 350 (1914).
680. FAHRION W., *Chem. Umschau*, **23**, 34 (1916).
 681. FAIRBROTHER F., BALKIN M., *J. Chem. Soc.*, 1564 (1931).
 682. FAIRBROTHER F., SCOTT N., PROPHET H., *J. Chem. Soc.*, 1164 (1956).
 683. FAIRBROTHER F., SWAN E., *J. Chem. Soc.*, **191**, 1237 (1922).
 684. FAIRHALL L. T., *J. Biol. Chem.*, **60**, 481 (1924).
 685. FAJANS K., KARAGUNIS, *Z. physik. Chem.*, **553** (1931).
 686. FALCIOLA P., *Gazz. chim. ital.*, **40**, 11, 218 (1910).
 687. FALCK A., *Pharm. Zbl.*, **60**, 409 (1919).
 688. FARMER R. C., *J. Chem. Soc.*, **79**, 865 (1901).
 689. FARROW M., *J. Chem. Soc.*, 1153 (1927).
 690. FAUCON A., *Ann. Chim. (et Phys.)*, (8), **19**, 70 (1910).

691. FAUSER, *Math. u. naturw. Ber.* (Ungarn), **6**, 154 (1888).
692. FEIT W., *Z. anorg. Chem.*, **199**, 268 (1931).
693. FELSING, DURBAN, *J. Am. Chem. Soc.*, **48**, 2885 (1926).
694. FEUTON H. J. H., *J. Chem. Soc.*, **73**, 479 (1898).
695. FERNANDEZ L., *Gazz. chim. ital.*, **55**, 1 (1925).
696. FERNER S. W., MELLON M. G., *Ind. Eng. Chem.* (Anal. Ed.), **6**, 345 (1934).
697. FERRARI A., COLLA C., *Gazz. chim. ital.*, **67**, 88 (1937).
698. FERRERO P., BOLLINGER G., *Helv. chim. acta*, **11**, 1143 (1928).
699. FIERZ-DAVID H. E., KREBSEN A., ANDERAN W., *Helv. chim. acta*, **10**, 197 (1927).
700. FIELD, *J. Chem. Soc.*, **11**, 6 (1859).
701. FILEHNE W., *Beitr. Chem. Phys. Pathol.*, **10**, 304 (1907).
702. FINDLAY A., *J. Chem. Soc.*, **81**, 1217 (1902).
703. FINDLAY A., CAMPBELL A. N., *J. Chem. Soc.*, **131**, 1768 (1928).
704. FINDLAY A., CAMPBELL A. N., *J. Chem. Soc.*, 2721 (1930).
705. FISHER V. M., MILOCZEWSKI F., *Kosmos (Lemberg)*, **35**, 538 (1910).
706. FISCHER E., PFÄHLER E., *Ber.*, **53B**, 1616 (1920).
707. FISCHER F., PFLIEDERER G., *Z. anorg. u. allgem. Chem.*, **124**, 61 (1922).
708. FISCHER J., VOGEL R. C., *J. Am. Chem. Soc.*, **76**, 4829 (1954).
709. FISCHER F., ZERBE C., *Brennstoff-Chem.*, **4**, 17 (1923).
710. FLASCHNER O., *Z. physik. Chem.*, **62**, 493 (1908).
711. FLASCHNER O., RANKIN J. G., *Monatsh. Chem.*, **31**, 23 (1910).
712. FLORENCE G., *Bull. Soc. chim. (France)*, (4), **41**, 1097 (1927).
713. FLÖTTMAN F., *Z. anorg. Chem.*, **73**, 1 (1928).
714. FLUCKINGER, *Arch. Pharm.*, (3), **25**, 542 (1887).
715. FOERSTER F., BRODSCH A., NORBERG, SCHULZ C., *Z. physik. Chem.*, **110**, 435 (1924).
716. FONTEIN F., *Z. physik. Chem.*, **73**, 212 (1910).
717. FONZES-DIACON, *J. pharm. chim.*, (6), **1**, 59 (1895).
718. FOOTE H. W., *J. Am. Chem. Soc.* **37**, 124 (1907).
719. FOOTE H. W., *J. Am. Chem. Soc.*, **32**, 618 (1910).
720. FOOTE H. W., *J. Am. Chem. Soc.*, **34**, 880 (1912).
721. FOOTE H. W., VANCE J. E., *Am. J. Sci.*, (5), **16**, 68 (1928).
722. FORCRAND R., *Compt. rend.*, **149**, 719 (1909).
723. FORCRAND R., *Compt. rend.*, **149**, 1344 (1909).
724. FORCRAND R., *Compt. rend.*, **152**, 1210 (1911).
725. FORCRAND R., FONZES-DIACON, *Ann. Chim. (et Phys.)*, (7), **26**, 253 (1902).
726. FOURNEAU E., FLORENCE G., *Bull. Soc. chim. (France)*, (4), **43**, 211, 1027 (1928).
727. FOURNEAU E., PAGE H. J., *Bull. sci. pharmacol.*, **21**, 1 (1914).
728. FRAENCKEL F., *Z. anorg. Chem.*, **55**, 223 (1907).
729. FRANCHIMONT A. P. N., BACKER H. J., *Rec. trav. chim.*, **39**, 751 (1920).
730. FRANCIS A. W., *J. Phys. Chem.*, **58**, 1099 (1954).
731. FRANKFORDER G. B., FRARY F. C., *J. Phys. Chem.*, **17**, 402 (1913).
732. FRANZEL H., ENGEL E., *J. Prakt. Chem.*, (2), **102**, 172 (1921).
733. FREDENHAGEN K., *Z. physik. Chem.*, **165A**, 179 (1933).
734. FREDENHAGEN K., CADENBACH G., *Z. Physik. Chem.*, **146A**, 245 (1930).
735. FREDHOLM H., *Z. anorg. Chem.*, **217**, 203; **218**, 225 (1934).
736. FREETH F. A., *Rec. trav. chim.*, **43**, 475 (1924).
737. FREUNDLICH H., RICHARDS M. B., *Z. physik. Chem.*, **79**, 692 (1912).
738. FRIEDEL, LACHBURG, *Bull. Soc. chim.*, (2), **12**, 92 (1869).
739. FRIEDLANDER F. V., *J. Am. Chem. Soc.*, **40**, 1945 (1918).
740. FRIEND J. A. N., *J. Chem. Soc.*, 2330, 2782 (1929).
741. FRIEND J. A. N., *J. Chem. Soc.*, 1633, 1903 (1930).
742. FRIEND J. A. N., *J. Chem. Soc.*, 1802, 2225 (1931).
743. FRIEND J. A. N., *J. Chem. Soc.*, 1597 (1932).
744. FRIEND J. A. N., *J. Chem. Soc.*, 824, 1430 (1935).
745. FRIEND J. A. N., SMIRLES W. N., *J. Chem. Soc.*, **131**, 2242 (1928).

746. FRIEND J. A. N., TOWNLEY J. E., VALLANCE R. H., *J. Chem. Soc.*, 2326 (1929).
 747. FRIEND J. A. N., WHEAT W. N., *J. Chem. Soc.*, 356 (1935).
 748. FRISCH F., *Helv. chim. acta*, **13**, 768 (1930).
 749. FRÖLICH K., TAUCH E. J., HOGAN J. J., PEER A. A., *Ind. Eng. Chem.*, **23**, 548 (1931).
 750. FROMMÜLLER, *Ber.*, **11**, 92 (1878).
 751. FROST W. S., COTHRAN J. C., BROWNE A. N., *J. Am. Chem. Soc.*, **55**, 3516 (1933).
 752. FUGE E. T. J., BOWDEN S. T., JONES W. G., *J. Phys. Chem.*, **56**, 1013, (1952).
 753. FÜHNER, *Ber.*, **57**, 514 (1924).
 754. FUNK R., *Wiss. Abhandl. physik. techn. Reichsanstalt*, **3**, 440 (1900).
 755. FUNK R., *Ber.*, **33**, 3697 (1900).
 756. FURCHT M., LIEBEN A., *Monatsh. Chem.*, **30**, 555 (1909).
 757. FÜRTH, *Monatsh. Chem.*, **9**, 311 (1888).
758. GALLO G., *Ann. chim. appl.*, **25**, 628 (1935).
 759. GARELLI, *Atti Accad. nazl. Lincei*, (6), **2**, 140, (1925).
 760. GARRETT A. B., HIRSCHLER A. E., *J. Am. Chem. Soc.*, **60**, 299 (1938).
 761. GAST J. H., ALDRICH F. L., *J. Am. Chem. Soc.*, **73**, 3037 (1951).
 762. GAY-LUSSAC, *Ann. chim. phys.*, **11**, 314 (1819).
 763. GEFFCKEN G., *Z. physik. Chem.*, **49**, 271 (1904).
 764. GERRARD W., MACKLEN E., *J. Appl. Chem.*, **6**, 241 (1956).
 765. GERARDIN, *Ann. chim. phys.*, (4), **5**, 129, 158 (1865).
 766. GERLACH, *Z. anal. Chem.*, **28**, 473 (1889).
 767. GERMUTH F. G., *J. Franklin Inst.*, **212**, 346 (1931).
 768. GETMAN F. H., *Rec. trav. chim.*, **54**, 866 (1935).
 769. GIACALONE A. *Gazz. chim. ital.*, **65**, 844 (1935).
 770. GIBBS H. D., *Phillippine J. Sci.*, **3A**, 357 (1908).
 771. GIBBS H. D., *J. Biol. Chem.*, **72**, 654 (1927).
 772. GIBBS H. D., *J. Phys. Chem.*, **31**, 1053 (1927).
 773. GIBBY C. W., HALL J., *J. Chem. Soc.*, 691 (1931).
 774. GIBSON G. C., DRISCOLL J. O., JONES W. J., *J. Chem. Soc.*, 1440 (1929).
 775. GILBERT E. C., HOFFMAN E. H., *J. Phys. Chem.*, **36**, 2789 (1932).
 776. GILLIS J., DELAUNOIS A., *Rec. trav. chim.*, **53**, 186 (1934).
 777. GILLIS J., NACHTERGAELE, *Rec. trav. chim.*, **59**, 186 (1934).
 778. GINNINGS P. M., BAUM R., *J. Am. Chem. Soc.*, **59**, 1111 (1937).
 779. GINNINGS P. M., COLTRANE D., *J. Am. Chem. Soc.*, **61**, 525 (1939).
 780. GINNINGS P. M., HAUSER M., *J. Am. Chem. Soc.*, **60**, 2581 (1938).
 781. GINNINGS P. M., HERRING E., COLTRANE D., *J. Am. Chem. Soc.*, **61**, 807 (1939).
 782. GINNINGS P. M., PLONK D., CARTER E., *J. Am. Chem. Soc.*, **62**, 1923 (1940).
 783. GINNINGS P. M., WEBB R., *J. Am. Chem. Soc.*, **60**, 1388 (1938).
 784. GINSBERG H., *Z. anorg. Chem.*, **204**, 225 (1932).
 785. GIOLITTI F., BUCCI G., *Gazz. chim. ital.*, **35**, 162 (1905).
 786. GIOLITTI F., VERCCHIARELLI V., *Gazz. chim. ital.*, **35**, 170 (1905).
 787. GIRAN H., *Ann. chim. phys.*, (7), **30**, 249 (1903).
 788. GIRAN H., *Compt. rend.*, **142**, 398 (1906).
 789. GIRAN H., *Compt. rend.*, **146**, 270, 1270 (1908).
 790. GIRSEWALD C., WOLOKITIN A., *Ber.*, **42**, 856 (1909).
 791. GJALDBAEK J. C., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **71**, 3147 (1949).
 792. GJALDBAEK J. C., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **72**, 609 (1950).
 793. GLASSTONE S., POUND A., *J. Chem. Soc.*, **127**, 2660 (1925).
 794. GLEW D. N., HILDEBRAND J. H., *J. Phys. Chem.*, **60**, 616 (1956).
 795. GLEW D. N., ROBERTSON R. E., *J. Phys. Chem.*, **60**, 332 (1956).
 796. GNIEWOSZ S., WALFISZ A., *Z. physik. Chem.*, **1**, 70 (1887).
 797. GODEFFROY, *Ber.*, **9**, 1337, 1369 (1886).
 798. GOLDBLUM H., TERLIKOWSKI F., *Bull. Soc. chim.*, (4), **11**, 146 (1912).
 799. GOLDSCHMIDT H., *Z. physik. Chem.*, **17**, 154 (1895).

800. GOLDSCHMIDT H., COOPER H. C., *Z. physik. Chem.*, **26**, 715 (1898).
 801. GOLDSCHMIDT H., ECKHARD M., *Z. physik. Chem.*, **56**, 389 (1906).
 802. GOLDSCHMIDT H., SUNDE E., *Z. physik. Chem.*, **56**, 15 (1906).
 803. GOODMAN J. B., KRASE N. W., *Ind. Eng. Chem.*, **23**, 401 (1931).
 804. GOODWIN W. L., *Ber.*, **15**, 3039 (1882).
 805. GOOT T. P., VAN DER, *Z. physik. Chem.*, **84**, 419 (1913).
 806. GORDON N. S., REID E. E., *J. Phys. Chem.*, **26**, 773 (1922).
 807. GORDON L. J., SCOTT R. L., *J. Am. Chem. Soc.*, **74**, 4138 (1952).
 808. GORI G., *Bull. chim. farm.*, **52**, 891 (1913).
 809. GORTNER R. A., *Biochem. Bull.*, **3**, 468 (1914).
 810. GRAFF W., *Compt. rend.*, **196**, 1930 (1933).
 811. GRANGER F. S., NELSON J. M., *J. Am. Chem. Soc.*, **43**, 1403 (1921).
 812. GREEN W. F., *J. Phys. Chem.*, **12**, 655 (1908).
 813. GREENISH H. G., *Pharm.*, **J. 65**, 190 (1900).
 814. GREENISH H. G., SMITH F. A. U., *Pharm. J.*, **66**, 774, 806 (1901).
 815. GREENISH H. G., SMITH F. A. U., *Pharm. J.*, **68**, 510 (1902).
 816. GREENISH H. G., SMITH F. A. U., *Pharm. J.*, **71**, 881 (1903).
 817. GREENWALD J., *Biochem. J.*, **20**, 666 (1926).
 818. GRIFFITHS R. O., MCKEOWN A., WINN A. G., *Trans. Faraday. Soc.*, **28**, 101 (1932).
 819. GRIFFITHS C. B., MALLETT M. W., *J. Am. Chem. Soc.*, **75**, 1832 (1953).
 820. GRIMBERT L., MALMY M., PERROT G., *J. pharm. chim.*, (7), **29**, 1 (1924).
 821. GRISWOLD J., KASCH J. E., *Ind. Eng. Chem.*, **34**, 804 (1942).
 822. GROOT C., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **70**, 3815 (1948).
 823. GROSCHUFF E., *Ber.*, **34**, 3318 (1901).
 824. GROSCHUFF E., *Ber.*, **36**, 1791, 4351 (1903).
 825. GROSCHUFF E., *Ber.*, **37**, 1488 (1904).
 826. GROSCHUFF E., *Z. anorg. Chem.*, **58**, 102 (1908).
 827. GROSCHUFF E., *Chem. Weekblad*, **7**, 687 (1910).
 828. GROSCHUFF E., *Z. Elektrochem.*, **17**, 348 (1911).
 829. GROSS P. M., *Z. physik. Chem.*, **6**, 218 (1929).
 830. GROSS P. M., *J. Am. Chem. Soc.*, **51**, 2362 (1929).
 831. GROSS P. M., RINTELEN J. C., SAYLOR J. H., *J. Phys. Chem.*, **43**, 196 (1939).
 832. GROSS P. M., SAYLOR J. H., *J. Am. Chem. Soc.*, **53**, 1744 (1931).
 833. GROSS P. M., SAYLOR J. H., GARMAN M. A., *J. Am. Chem. Soc.*, **55**, 650 (1933).
 834. GRUBE G., NUSSBAUM M., *Z. Elektrochem.*, **34**, 91 (1928).
 835. GRUBE G., STAESCHE M., *Z. physik. Chem.*, **130**, 572 (1927).
 836. GRÜTTNER G., *Ber.*, **27**, 3259 (1914).
 837. GUDZEIT F., *Z. physiol. Chem.*, **56**, 150; **60**, 38 (1908—1909).
 838. GUEMPLE O., *Bull. Soc. chim. (Belg.)*, **38**, 443 (1929).
 839. GUERIN G., *J. Pharm. Chem.*, (7), **7**, 438 (1913).
 840. GUNTHER F. A., *J. Am. Chem. Soc.*, **67**, 189 (1945).
 841. GUNTZ A., GUNTZ A. A., *Ann. chim.*, **2**, 101 (1914).
 842. GUSTAVSON R. G., GOODMAN J. B., *J. Am. Chem. Soc.*, **49**, 2526 (1927).
 843. GUTHRIE, *Phil. Mag.*, (5), **18**, 30, 504 (1884).
 844. GUTMANN V., *Z. anorg. u. allgem. Chem.*, **269**, 279 (1952).
 845. HABER-CHUWIS Q., *Rocyniki. Chem.*, **6**, 700 (1926).
 846. HACKSPILL L., *Helv. chim. acta*, **16**, 1096 (1933).
 847. HACHNEL O., *Centr. min. Geol.*, **25**, (1920).
 848. HACHNEL O., *J. Prakt. Chem.*, (2), **107**, 165, 108, 61, 187 (1924).
 849. HAGISAWA H., *Sci. Reports Tohoku Univ.*, **23**, 182 (1934).
 850. HAIGHT G. P., *Ind. Eng. Chem.*, **43**, 1827 (1934).
 851. HALBAN H., *Z. physik. Chem.*, **84**, 129, 145 (1938).
 852. HALBERSTADT, *Ber.*, **17**, 2965 (1884).
 853. HALFORD J. O., *J. Am. Chem. Soc.*, **53**, 105 (1931).

854. HALL J. L., COLLETT A. R., LAZZELL C. L., *J. Phys. Chem.*, **37**, 1087 (1933).
855. HALLER H. L., LYNCH D. F. J., *Ind. Eng. Chem.*, **16**, 273 (1924).
856. HAMAI S., *Bull. Chem. Soc. (Japan)*, **10**, 207 (1935).
857. HAMMICK D. L., GOADBY H. K., BOOTH K., *J. Chem. Soc.*, **117**, 1589. (1920).
858. HAMMICK D. L., HELLICAN A., *J. Chem. Soc.*, **761** (1938).
859. HAMMICK D. L., HOLT S. E., *J. Chem. Soc.*, **129**, 1995 (1926).
860. HAMMICK D. L., ILLINGWORTH W. S., *J. Chem. Soc.*, 2358 (1930).
861. HAMMICK D. L., MULLABY, *J. Chem. Soc.*, **119**, 1802 (1921).
862. HAMMICK D. L., WILLIAMS R. B., *J. Chem. Soc.*, 1856 (1935).
863. HAMPSHIRE C. H., PRATT W. P., *Pharm. J.*, **91**, 140 (1913).
864. HANDY, HOUT, *J. Am. Pharm. Assoc.*, **16**, 7 (1927).
865. HANN P. M., REID F. E., JAMESON G. S., *J. Am. Chem. Soc.*, **52**, 818 (1930).
866. HANTZSCH A., *Chem. Zbl.*, **11**, 922 (1902).
867. HARA R., CADY G. H., *J. Am. Chem. Soc.*, **76**, 4285 (1954).
868. HARGREAVES G. W., *J. Am. Pharm. Assoc.*, **20**, 763 (1931).
869. HARKINS W. D., PEARCE W. T., *J. Am. Chem. Soc.*, **38**, 2694, 2717 (1916).
870. HARKINS W. D., WININGHOFF W., *J. Am. Chem. Soc.*, **33**, 1827 (1911).
871. HARTLEY G. S., *J. Chem. Soc.*, 1698 (1938).
872. HARTLEY H., BARRETT W. H., *J. Chem. Soc.*, **95**, 1178 (1909).
873. HARTLEY H., THOMAS, *J. Chem. Soc.*, **89**, 1028 (1906).
874. HARVEY T. F., BACK S., *Analyst*, **46**, 188 (1921).
875. HASLAM R. T., CALINGAERT G., TAYLOR C. M., *J. Am. Chem. Soc.*, **46**, 308 (1924).
876. HATCHER R. A., *J. Pharm.*, **74**, 136 (1902).
877. HATCHER W. H., SKIRROW F. W., *J. Am. Chem. Soc.*, **39**, 1939 (1917).
878. HAWKINS J. A., SCHILLING C. W., *J. Biol. Chem.*, **113**, 273 (1936).
879. HAZLET S. E., MORROW R. W., *J. Am. Chem. Soc.*, **64**, 2625 (1942).
880. HEHNER O., MITCHELL C. A., *J. Am. Chem. Soc.*, **19**, 40 (1897).
881. HEIDUSCHKA A., FAUL M., *Arch. Pharm.*, **255**, 441, 489 (1917).
882. HEISE G. W., *J. Phys. Chem.*, **16**, 373 (1912).
883. HELDMAN J. D., THURMOND C. D., *J. Am. Chem. Soc.*, **66**, 427 (1944).
884. HEMPEL W., *Z. angew. Chem.*, **14**, 865 (1901).
885. HENDRIXON W. S., *J. Am. Chem. Soc.*, **42**, 724 (1920).
886. HENRY, *Compt. rend.*, **99**, 1157 (1884).
887. HENSTOCK H., *J. Chem. Soc.*, 1340 (1934).
888. HERING H., *Ann. chim.*, (II), **5**, 483 (1936).
889. HERMANN S., *Z. anorg. Chem.*, **142**, 113 (1925).
890. HERRERO G., *Anal. Soc. Esp. fis. quim.*, **31**, 416 (1933).
891. HERZ W., *Ber.*, **31**, 2671 (1898).
892. HERZ W., ANDERS G., *Z. anorg. Chem.*, **52**, 164, 271 (1907).
893. HERZ W., HIEBENTHAL F., *Z. anorg. Chem.*, **177**, 368 (1928).
894. HERZ W., KUHN F., *Z. anorg. Chem.*, **58**, 159; **60**, 152 (1908).
895. HERZ W., RATHMANN W., *Z. Elektrochem.*, **19**, 553, 887 (1913).
896. HERZFELD, *Z. Ver. Zuckerind.*, **181** (1892).
897. HETHERINGTON H. C., BRAHAM J. M., *Ind. Eng. Chem.*, **15**, 1060 (1923).
898. HEVESY G., *Z. Elektrochem.*, **15**, 529 (1909).
899. HEVESY G., *Chem. & Ind.*, **42**, 929 (1923).
900. HEVESY G., *K. Danske Videnskab Selskab Mat. fus. Medd.*, **6**, N 7, 1 (1925).
901. HEVESY, CHRISTIANSEN J. A., BERGLUND V., *Z. anorg. u. allgem. Chem.*, **144**, 69 (1925).
902. HEYL F. W., GREER F. E., *Am. J. Pharm.*, **94**, 80 (1922).
903. HILDEBRAND J. H., *J. Am. Chem. Soc.*, **56**, 2033 (1937).
904. HILDEBRAND J. H., *J. Phys. Chem.*, **43**, 109 (1939).
905. HILDEBRAND J. H., BENESI H. A., MOWER L. M., *J. Am. Chem. Soc.*, **72**, 1017 (1950).
906. HILDEBRAND J. H., BUEHRER T. F., *J. Am. Chem. Soc.*, **42**, 2213 (1920).

907. HILDEBRAND J. H., COCHRAN D. R. F., *J. Am. Chem. Soc.*, **71**, 22 (1949).
908. HILDEBRAND J. H., ELLEFSON E. T., BEEBE C. W., *J. Am. Chem. Soc.*, **39**, 2302 (1917).
909. HILDEBRAND J. H., FISHER B. B., BENESI H. A., *J. Am. Chem. Soc.*, **72**, 4348 (1950).
910. HILDEBRAND J. H., JENKS C. A., *J. Am. Chem. Soc.*, **42**, 2180 (1920).
911. HILDEBRAND J. H., JENKS C. A., *J. Am. Chem. Soc.*, **43**, 2172 (1921).
912. HILDEBRAND J. H., NEGISHI G. R., *J. Am. Chem. Soc.*, **56**, 339 (1937).
913. HILDEBRAND J. H., WACHTER A., *J. Phys. Colloid Chem.*, **53**, 886 (1949).
914. HILL A. E., *J. Am. Chem. Soc.*, **39**, 218 (1917).
915. HILL A. E., *J. Am. Chem. Soc.*, **45**, 1143 (1923).
916. HILL A. E., *J. Am. Chem. Soc.*, **50**, 2678 (1928).
917. HILL A. E., *J. Am. Chem. Soc.*, **59**, 2242 (1937).
918. HILL A. E., BROWN C. F., *J. Am. Chem. Soc.*, **53**, 4316 (1931).
919. HILL A. E., DISTLER E. F., *J. Am. Chem. Soc.*, **57**, 2203 (1935).
920. HILL A. E., DONOVAN J. E., *J. Am. Chem. Soc.*, **53**, 934 (1931).
921. HILL A. E., KAPLAN N., *J. Am. Chem. Soc.*, **60**, 550 (1938).
922. HILL A. E., MACY P., *J. Am. Chem. Soc.*, **46**, 1132 (1924).
923. HILL A. E., MALISOFF W. M., *J. Am. Chem. Soc.*, **48**, 918 (1926).
924. HILL A. E., MOSKOWITZ S., *J. Am. Chem. Soc.*, **53**, 941 (1931).
925. HILL A. E., WILLSON H. S., BISHOP J. A., *J. Am. Chem. Soc.*, **55**, 520 (1933).
926. HILL A. E., ZINK W. A. H., *J. Am. Chem. Soc.*, **31**, 44 (1909).
927. HILPERT S., *Z. angew. Chem.*, **29**, 57 (1910).
928. HIRAI M., *Bull. Chem. Soc. (Japan)*, **1**, 123 (1926).
929. HIS W., PAUL T., *Z. physiol. Chem.*, **31**, 67 (1900).
930. HITCHCOCK F. R. M., *J. Am. Chem. Soc.*, **17**, 529 (1895).
931. HOBSON R. W., HARTMAN R. J., KANNING E. W., *J. Am. Chem. Soc.*, **63**, 2094 (1941).
932. HOERR C. W., HARWOOD H. G., *J. Phys. Chem.*, **56**, 1068 (1952).
933. HOERR C. W., HARWOOD H. G., *J. Am. Chem. Soc.*, **74**, 4290 (1952).
934. HOERR C. W., HARWOOD H. G., *J. Phys. Chem.*, **60**, 1265 (1956).
935. HOERR C. W., RECK R. A., CORCORAN G. B., HARWOOD H. J., *J. Phys. Chem.*, **59**, 457 (1955).
936. VAN'T HOFF J. H., GOLDSCHMIDT H., *Z. physik. Chem.*, **17**, 508 (1895).
937. HOFFMANN K. A., HÖBOLD K., *Ber.*, **44**, 1776 (1911).
938. HOFFMANN K. A., HÖBOLD K., QUOOS, *Ann. Chem. Liebigs*, **386**, 304 (1911—1912).
939. HOFFMANN K. A., KIRMIREUTHER K., THAL A., *Ber.*, **43**, 183 (1910).
940. HOFFMANN K. A., ROTH R., HÖBOLD R., METZLER A., *Ber.*, **43**, 2628 (1910).
941. HOFFMANN K. A., VAN DER WERF C. A., *J. Am. Chem. Soc.*, **68**, 997 (1946).
942. HOLDE D., SELIM M., *Ber.*, **58**, 523 (1925).
943. HÖLEMANN H., KLEESE W., *Z. anorg. Chem.*, **237**, 172 (1938).
944. HÖLEMANN P., HASSELMANN R., *Forschungsberichte des Wirtschafts-und Verkehrsministeriums Nordrhein-Westfalen*, No. 109 (Westdeutscher Verlag). Köln und Opladen (1954).
945. HOLLEMAN A. F., *Z. physik. Chem.*, **12**, 135 (1893).
946. HOLLEMAN A. F., *Rec. trav. chim.*, **15**, 159 (1896).
947. HOLLEMAN A. F., *Rec. trav. chim.*, **17**, 247, 324 (1898).
948. HOLLEMAN A. F., *Rec. trav. chim.*, **29**, 396 (1910).
949. HOLLEMAN A. F., ANTUSCH A. C., *Rec. trav. chim.*, **13**, 293 (1894).
950. HOLLEMAN A. F., COLAND P., *Ber.*, **44**, 2506 (1911).
951. HOLLEMAN A. F., HUISINGA J., *Rec. trav. chim.*, **27**, 275 (1908).
952. HOLLEMAN, KOHLRAUSH, ROSE, *Z. physik. Chem.*, **12**, 129, 241 (1893).
953. HOLM K., *Am. J. Pharm.*, **94**, 138 (1922).
954. HOLMAN H., KLEESE W., *Z. anorg. Chem.*, **237**, 172 (1938).
955. HOLMANN K. A., ROTH R., HÖBOLD K., METZLER A., *Ber.*, **43**, 2628 (1910).
956. HOLMBERG B., *Ark. Kemi. Mineral. Geol.*, **6**, No. 17 (1917).

957. HOLMBERG B., *Ark. Kemi. Mineral. Geol.*, **8**, No. 2 (1921).
 958. HOLMBERG O., *Z. anorg. Chem.*, **53**, 83 (1907).
 959. HÖLTJE R., *Z. anorg. Chem.*, **181**, 395 (1929).
 960. HOLTY J. G., *J. Phys. Chem.*, **9**, 764 (1905).
 961. HOLZL F., *Z. Elektrochem.*, **43**, 302 (1937).
 962. HOOPER, *Pharm. J. Trans.*, (3), **13**, 258 (1882).
 963. HORIBA S., *Mem. Coll. Sci. Eng. (Kyoto)*, **2**, 1 (1917).
 964. HORIUTI J., *Sci. Papers Inst. Phys. Chem. Research (Tokyo)*, **17**, 125 (1931).
 965. HORN D. W., VAN WAGENER, *J. Am. Chem. Soc.*, **30**, 347 (1903).
 966. HOUSE E. H., WOLFENDEN J. H., *J. Am. Chem. Soc.*, **74**, 562 (1952).
 967. HOUSTON D. F., *J. Research Nat. Bur. Standards*, **17**, 55 (1936).
 968. HOUSTON, TRICHBORNE, *Brit. Med. J.*, 1063 (1890).
 969. HOVORKA F., SCHAEFER R. A., DREISBACH D., *J. Am. Chem. Soc.*, **58**, 2264 (1936).
 970. HOWE J. L., *J. Am. Chem. Soc.*, **16**, 388 (1894).
 971. HOWE L. J., *Trans. Roy. Soc. (Canada)*, (3), **12**, Sec. III, 13 (1918).
 972. HOWELLS W. J., *J. Chem. Soc.*, 2010 (1930).
 973. HOWELLS W. J., *J. Chem. Soc.*, 3208 (1931).
 974. HUDSON C. S., *J. Am. Chem. Soc.*, **26**, 1072 (1904).
 975. HUDSON C. S., *J. Am. Chem. Soc.*, **30**, 1767 (1908).
 976. HUDSON D. R., *J. Phys. Chem.*, **49**, 483 (1945).
 977. HUDSON J. C., *J. Chem. Soc.*, **127**, 1332 (1925).
 978. HUNGERFORD E. H., NEES A. R., *Ind. Eng. Chem.*, **26**, 462 (1934).
 979. HUGHES O. L., MEAD T. H., *J. Chem. Soc.*, 2282 (1929).
 980. HULETT G. A., ALLEN L. E., *J. Am. Chem. Soc.*, **24**, 674 (1902).
 981. HULSMANN O., BILTZ W., *Z. anorg. Chem.*, **218**, 369 (1934).
 982. HUNT H., *J. Am. Chem. Soc.*, **54**, 3509 (1932).
 983. HUNT H., BONCYK L., *J. Am. Chem. Soc.*, **55**, 3528 (1933).
 984. HUTCHINSON E., MANCHESTER K. E., WINSLOW L., *J. Phys. Chem.*, **58**, 1124 (1954).
 985. HÜTTIG G. F., *Z. physik. Chem.*, **87**, 144 (1914).
 986. HÜTTIG G. F., POHLE F., *Z. anorg. Chem.*, **138**, 14 (1924).
 987. HÜTTIG G. F., RENSCHER F., *Z. anorg. Chem.*, **137**, 155 (1924).
 988. HÜTTIG G. F., STENDEMANN W., *Z. physik. Chem.*, **126**, 105 (1927).
 989. IANIKIS J., *Z. anorg. Chem.*, **205**, 49 (1932).
 990. ILLINGWORTH B., HOWARD A., *Phil. Mag.*, (5), **18**, 124 (1884).
 991. IMADSU A., *Mem. coll. sci. and Eng. (Kyoto)*, **3**, 257 (1911—1912).
 992. INGERSOL A. W., BABCOCK S. H., BURNS F. B., *J. Am. Chem. Soc.*, **55**, 411 (1933).
 993. IRVIN N. N., RUSSELL A. S., *J. Chem. Soc.*, **56**, 344 (1932).
 994. IRVIN N. N., RUSSELL A. S., *J. Chem. Soc.*, **891** (1932).
 995. ISHIKAWA F., HAGISAWA H., *Bull. Inst. Phys. Chem. Research (Tokyo)*, **10**, 10 (1931).
 996. ISHIKAWA F., MUROOKA T., *Bull. Inst. Phys. Chem. Research (Tokyo)*, **8**, 77 (1929).
 997. ISHIKAWA F., MUROOKA T., *Sci. Reports Tohoku Univ.*, **22**, 201, 220, 235 (1933).
 998. ISHIKAWA F., OKU M., *Bull. Inst. Phys. Chem. Research (Tokyo)*, **6**, 80 (1927).
 999. ISHIKAWA F., SHIBATA E., *Sci. Reports Tohoku Univ.*, **21**, 507 (1932).
 1000. ITERSON-ROTGANS J. W., *Z. physik. Chem.*, **87**, 305 (1914).
 1001. IWASE E., *Bull. Inst. Phys. Chem. Res. (Tokyo)*, **9**, 542 (1930).
 1002. IWIG, HECHT, *Ann. Chem. Liebig's.*, **233**, 167 (1886).
 1003. JACEK W., *Bull. Intern. acad. sci. Cracovie*, (A), 26 (1915).
 1004. JACEK W., *Roczniki. Chem.*, **6**, 501 (1926).
 1005. JACHE A. W., CADY G. H., *J. Phys. Chem.*, **56**, 1106 (1952).
 1006. JACKSON K. S., RIENACKER G., *J. Chem. Soc.*, 1687 (1930).
 1007. JACKSON R. F., SILSBEE C. G., *Sci. papers Nat. Bureau Stand.*, **17**, 715 (1922).
 1008. JACOBSON C. A., HOLMES A., *J. Biol. Chem.*, **25**, 29 (1916).
 1009. JAEGER A., *Z. anorg. Chem.*, **27**, 25 (1901).

1010. JAEGER A., *Brennstoff-Chem.*, **4**, 259 (1923).
1011. JAEGER F. M., KREGTEN J. R. N., *Proc. Koninkl. Akad. Wetenschap (Amsterdam)*, **14**, 733 (1912).
1012. JAEGER F. M. THOMAS W., *Rec. trav. chim.*, **38**, 249 (1919).
1013. JAHN-HELD W., JELLINEK K., *Z. Elektrochem.*, **42**, 608 (1936).
1014. JAMES, *Ind. Eng. Chem.*, **5**, 115 (1913).
1015. JAMES C., FOGG H. C., MCINTIRE B. W., EVANS R. H., DONOVAN J. S., *J. Am. Chem. Soc.*, **49**, 132 (1927).
1016. JANDER G., RUPPOLT W., *Z. physik. Chem.*, (A), **179**, 43 (1937).
1017. JANTSCH G., GRÜNKRAUT A., *Z. anorg. Chem.*, **79**, 309 (1912—1913).
1018. JANDER G., WICKERT K., *Z. physik. Chem.*, **178**, 63 (1936).
1019. JÄNECKE E., *Z. physik. Chem.*, **127**, 71 (1927).
1020. JÄNECKE E., *Z. angew. Chem.*, **42**, 1169 (1929).
1021. JÄNECKE E., *Z. physik. Chem.*, (A), **164**, 401 (1933).
1022. JÄNECKE E., *Z. physik. Chem.*, **177**, 7 (1936).
1023. JÄNECKE E., HOFFMANN A., *Z. Elektrochem.*, **38**, 880 (1932).
1024. JANICKIS J., *Z. anorg. Chem.*, **205**, 49 (1932).
1025. JANICKIS J., GUTMANAITE H., *Z. anorg. Chem.*, **227**, 1 (1936).
1026. JANOVSKY E., KINGSBURG R. M., *J. Am. Chem. Soc.*, **55**, 3658 (1933).
1027. JANTSCH G., *Z. anorg. Chem.*, **76**, 321 (1912).
1028. JANTSCH G., *Z. anorg. u. allgem. Chem.*, **153**, 9 (1926).
1029. JANTSCH G., GRÜNKRAUT A., *Z. anorg. Chem.*, **79**, 309 (1912—1913).
1030. JELLINECK K., *Z. anorg. Chem.*, **70**, 86 (1911).
1031. JELLINECK K., GORDON H., *Z. physik. Chem.*, **112**, 247 (1924).
1032. JENSEN H. R., *Pharm. J.*, **90**, 658 (1913).
1033. JIRSA K., JELLINEK H., *Z. Elektrochem.*, **30**, 286, 534 (1924).
1034. JO J., *Mem. col. sci. Eng. (Kyoto)*, **3**, 41, 212 (1911).
1035. JOANNIS, *Ann. chim. phys.*, (5), **26**, 489 (1882).
1036. JOHNS L. B., PETERSON W. D., HIXON R. M., *J. phys. Chem.*, **34**, 2218 (1930).
1037. JOHNSON G. C., FRANCIS A. W., *Ind. Eng. Chem.*, **46**, 1662 (1954).
1038. JOHNSTON J., JONES E. P., *J. Phys. Chem.*, **32**, 593 (1928).
1039. JOHNSON W. C., KRUMBOLTZ O. F., *Z. physik. Chem.*, **167**, 249 (1933).
1040. JOHNSON W. C., PISKUR M. M., *J. Phys. Chem.*, **37**, 93 (1933).
1041. JOHNSON W. C., WHEATLEY A. C., *Z. anorg. Chem.*, **216**, 273 (1934).
1042. JOHNSTONE A. F., LEPLA P. W., *J. Am. Chem. Soc.*, **56**, 2233 (1934).
1043. JOKE J. T., *J. Phys. Chem.*, **62**, 753 (1958).
1044. JOLLEY J. E., HILDEBRAND J. H., *J. Phys. Chem.*, **61**, 791 (1957).
1045. JONES B. M., *J. Chem. Soc.*, **93**, 1744 (1908).
1046. JONES D. C., *J. Chem. Soc.*, **123**, 1374 (1923).
1047. JONES D. C., *J. Chem. Soc.*, 799 (1929).
1048. JONES D. C., AMSTELL S., *J. Chem. Soc.*, 1316 (1930).
1049. JONES D. C., BETTS H. F., *J. Chem. Soc.*, 1177 (1928).
1050. JONES E. R., *J. Phys. Chem.*, **31**, 1316 (1927).
1051. JONES F. E., HAMER W. E., DAVIES C. W., BURY C. R., *J. Phys. Chem.*, **34**, 564 (1930).
1052. JONES G., SCHUMB W. C., *Proc. Am. Acad. Arts Sci.*, **56**, 199 (1921).
1053. JONES H. A., SMITH C. M., *J. Am. Chem. Soc.*, **52**, 2554 (1930).
1054. JONES W. J., SPEAKMAN J. B., *J. Am. Chem. Soc.*, **43**, 1869 (1921).
1055. DE JONG A. W. K., *Rec. trav. chim.*, **28**, 343 (1909).
1056. DE JONG A. W. K., *Rec. trav. chim.*, **31**, 256 (1912).
1057. JOUKOVSKY N. J., *Bull. Soc. Chim. (Belg.)*, **43**, 397 (1934).
1058. JORGENSEN, *J. Prakt. Chem.*, (2), **42**, 208 (1890); **44**, 51 (1891).
1059. JOULIN, *Ann. chim. et. phys.*, (4), **30**, 260 (1873).
1060. JOUNG R. S., GOLLEDGE A., *Ind. Eng. Chem.*, **39**, 1299 (1947).
1061. JOUNGFLISCH E., *Compt. rend.*, **155**, 801 (1912).
1062. JUST G., *Z. physik. Chem.*, **37**, 342 (1901).

1063. KAHLBERG L., BREWER R. K., *J. Phys. Chem.*, **12**, 283 (1908).
 1064. KAHLBERG L., WITTICH W. J., *J. Phys. Chem.*, **13**, 421 (1909).
 1065. KAKINUMA H., *J. Phys. Chem.*, **45**, 1045 (1941).
 1066. KARAOGLANOV Z., SAGORTSCHEV V., *Z. anorg. Chem.*, **205**, 270 (1932).
 1067. KARL G., *Z. anorg. Chem.*, **68**, 57 (1910).
 1068. KARLSSON K. G., *Z. anorg. Chem.*, **145**, 41 (1925).
 1069. KARPLUS, in: Landolt a. Börnstein. *Tabellen*. 4 Ed. (1912).
 1070. KARSTEN, *Ann. der Chem. u. Pharm. Suppl.*, **3**, 170 (1864—1865).
 1071. KARTSCHOFF V., FARINE G., *Helv. chim. acta*, **11**, 813 (1928).
 1072. KATZ S. H., JAMES C., *J. Am. Chem. Soc.*, **35**, 872 (1913).
 1073. KAVELER H. H., MONROE C. J., *J. Am. Chem. Soc.*, **50**, 2421 (1928).
 1074. KEEFER R. M., ANDREWS L. J., KEPNER R. E., *J. Am. Chem. Soc.*, **71**, 3906 (1949).
 1075. KENDALL J., DAVIDSON A. W., *J. Am. Chem. Soc.*, **43**, 979 (1921).
 1076. KENDALL J., HARRISON L. E., *Trans. Faraday Soc.*, **24**, 588 (1928).
 1077. KELLY W. J., AYERS K. B., *Ind. Eng. Chem.*, **16**, 148 (1924).
 1078. KENNARD S. M. S., MCCUSKER P. A., *J. Am. Chem. Soc.*, **70**, 1039 (1948).
 1079. KEPPISH, *Monatsh. Chem.*, **9**, 589 (1888).
 1080. KEPPISH, *Monatsh. Chem.*, **14**, 717 (1893).
 1081. KEYES D. B., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **39**, 2129 (1917).
 1082. KEYWORTH C. M., *J. Soc. Chem. Ind.*, **43**, 341 (1924).
 1083. KEYWORTH C. M., *J. Soc. Chem. Ind.*, **46**, 20 (1927).
 1084. KIENLE R. H., SAYWARD J. M., *J. Am. Chem. Soc.*, **64**, 2464 (1942).
 1085. KING F. E., PARTINGTON J. R., *J. Chem. Soc.*, **129**, 20 (1926).
 1086. KING H., PYMAN F. L., *J. Chem. Soc.*, **105**, 1238 (1914).
 1087. KIRN E. R., DUNLOP H. E., *J. Am. Chem. Soc.*, **53**, 391 (1931).
 1088. KLEIN O., SWANBERG O., *Medd. Vedenskaps akad Nobelinstit.*, **4**, No. 1. (1920).
 1089. KLEMENS A., LÖW M., *Rec. trav. chim.*, **49**, 629 (1930).
 1090. KLEMENS A., SPITZER-NEWMANN E., *Monatsh. Chem.*, **53**, 413 (1929).
 1091. KLEPPA O. J., WEIL J. A., *J. Am. Chem. Soc.*, **73**, 4848 (1951).
 1092. KLEVENS H. B., *J. Phys. Coll. Chem.*, **54**, 283 (1950).
 1093. KLOBBIE E. A., *Z. physik. Chem.*, **24**, 623 (1897).
 1094. KLOSE G., *Arch. intern. Pharmacodynamie*, **17**, 459 (1907).
 1095. KNIGHT R. W., HINSHELWOOD C. N., *J. Chem. Soc.*, 466 (1927).
 1096. KNUYT H. R., *Z. physik. Chem.*, **65**, 497 (1908—1909).
 1097. KOBE K. A., MOTSCH W. L., *J. Phys. Chem.*, **56**, 185 (1952).
 1098. KOCH F. K., *J. Chem. Soc.*, 1551 (1930).
 1099. KÖHLER, *Z. anal. Chem.*, **18**, 242 (1879).
 1100. KÖHLER, *Z. Ver. Zuckerind.*, **47**, 447 (1897).
 1101. KOHLRAUSCH F., *Sitzber. Akad. Wiss. (Berlin)*, 90 (1897).
 1102. KOHLRAUSCH F., *Z. physik. Chem.*, **50**, 355 (1904—1905).
 1103. KOHLRAUSCH F., *Z. physik. Chem.*, **64**, 121 (1908).
 1104. KOLTHOFF I. M., *Z. anorg. Chem.*, **119**, 202 (1921).
 1105. KOLTHOFF I. M., *Biochem. Z.*, **162**, 289 (1925).
 1106. KOLTHOFF I. M., *Chem. Weekblad*, **19**, 449 (1926).
 1107. KOLTHOFF I. M., BOSCH W., *J. Phys. Chem.*, **36**, 1702 (1932).
 1108. KOLTHOFF I. M., ELMQUIST R., *J. Am. Chem. Soc.*, **53**, 1217 (1931).
 1109. KÖNIG, *Monatsh. Chem.*, **15**, 23 (1894).
 1110. KÖNNECKE H. G., STEINERT H., LEIBNITZ E., *Z. physik. Chem.*, **208**, 147 (1958).
 1111. KOPPEL J., *Z. anorg. Chem.*, **41**, 377 (1904).
 1112. KOPPEL J., *Ber.*, **39**, 3738 (1906).
 1113. KOPPEL J., BLUMENTHAL R., *Z. anorg. Chem.*, **53**, 228 (1907).
 1114. KOPPEL J., CAHN M., *Z. anorg. Chem.*, **60**, 53 (1908).
 1115. KOPPEL J., GUMPERY, *Z. physik. Chem.*, **52**, 413 (1905).
 1116. KOPPEL J., WETZEL, *Z. physik. Chem.*, **52**, 395 (1905).
 1117. KORMAN S., LA MER W. K., *J. Am. Chem. Soc.*, **58**, 1396 (1936).

1118. KÖROSY F., *Trans. Faraday Soc.*, **33**, 416 (1937).
 1119. KORVESEE A. E., *Rec. trav. chim.*, **53**, 464 (1934).
 1120. KRACEK F. C., *J. Am. Chem. Soc.*, **53**, 2609 (1931).
 1121. KRAGEN S., *Monatsh. Chem.*, **37**, 391 (1916).
 1122. KRASNICKI, *Monatsh. Chem.*, **8**, 597 (1887).
 1123. KRAUS C. A., BURGESS W. M., *J. Am. Chem. Soc.*, **49**, 1226 (1927).
 1124. KRAUS C. A., LUCASSE W. W., *J. Am. Chem. Soc.*, **44**, 1949 (1922).
 1125. KRAUSE E., *Ber.*, **51**, 1447 (1918).
 1126. KRAUSE E., POHLAND E., *Ber.*, **55B**, 1282 (1922).
 1127. KRAUSE E., REISZAUS G. G., *Ber.*, **54B**, 2062 (1921).
 1128. KREBER E., *Z. physik. Chem.*, **93**, 679 (1919).
 1129. KREMANN R., *Monatsh. Chem.*, **28**, 895, 1125 (1907).
 1130. KREMANN R., EITEL H., *Rec. trav. chim.*, **42**, 539 (1923).
 1131. KREMANN R., HÜTTINGER K., *Jahrber. k. geol. Reichsanstalt (Wien)*, **58**, 637 (1908).
 1132. KREMANN R., JANETZKY E., *Monatsh. Chem.*, **44**, 49 (1923).
 1133. KREMANN R., KERSHBAUM F., *Z. anorg. Chem.*, **56**, 218 (1907).
 1134. KREMANN R., SCHOUZL R., *Monatsh. Chem.*, **33**, 1063, 1081 (1912).
 1135. KREMERS, *Pogg. Ann.*, **92**, 497 (1854).
 1136. KREMERS, *Pogg. Ann.*, **97**, 5, 47 (1856).
 1137. KREMERS, *Pogg. Ann.*, **103**, 57, 133, 165; **104**, 65, 133 (1858).
 1138. KREMERS, *Pogg. Ann.*, **111**, 60 (1860).
 1139. KREPELKA J. H., REJHA B., *Coll. Czechoslov. Chem. Comm.*, **5**, 67 (1933).
 1140. KREPELKA J. H., TOUL F., *Coll. Czechoslov. Chem. Comm.*, **1**, 155 (1929).
 1141. KRETSCHMER C. B., NOWAKOWSKA J., WIEBE R., *Ind. Eng. Chem.*, **38**, 506 (1946).
 1142. KRETSCHMER C. B., WIEBE R., *J. Am. Chem. Soc.*, **73**, 3778 (1951).
 1143. KRETSCHMER C. B., WIEBE R., *J. Am. Chem. Soc.*, **74**, 1276 (1952).
 1144. KRIEVE W. F., MASON D. M., *J. Phys. Chem.*, **60**, 374 (1956).
 1145. KRIMANN R., HOFMEIER F., *Monatsh. Chem.*, **29**, 1111 (1908).
 1146. KRÖBER E., *Z. physik. Chem.*, **93**, 679 (1919).
 1147. KRUG W. H., MACELROY K. P., *J. Anal. Chem.*, **6**, 184 (1892).
 1148. KRÜSS G., NILSON L. F., *Ber.*, **20**, 1696 (1887).
 1149. KRUYT H. R., *Z. physik. Chem.*, **65**, 497 (1908—1909).
 1150. KU P. S., *Ind. Eng. Chem. (Anal. Ed.)*, **9**, 103 (1937).
 1151. KULISCH, *Monatsh. Chem.*, **14**, 567 (1893).
 1152. KUME T., *Rev. Phys. Chem. (Japan)*, **11**, 22 (1937).
 1153. KUNERTH W., *Phys. Rev.*, (2), **19**, 512 (1922).
 1154. KUNHEIM, ZIMMERMAN, *Dinglers polytech. J.*, **252**, 478 (1884).
 1155. KÜPPER A., *Caliche*, **8**, 467 (1927).
 1156. KURILOFF B., *Z. physik. Chem.*, **24**, 441 (1897).
 1157. KURILOFF B., *Z. physik. Chem.*, **25**, 109 (1898).
 1158. KURTENACKER A., FINGER W., HEY F., *Z. anorg. Chem.*, **211**, 83, 281 (1933).
 1159. KURTENACKER A., FLUSS W., *Z. anorg. Chem.*, **210**, 125 (1933).
 1160. KURTENACKER A., LASZLO G., *Z. anorg. Chem.*, **237**, 359 (1938).
 1161. KÜSTER F. W., KREMANN R., *Z. anorg. Chem.*, **41**, 19 (1904).
1162. LACHARTRE M., *Bull. Soc. chim.*, (4), **35**, 321 (1924).
 1163. LADENBURG A., DOCTOR G., *Ber.*, **32**, 50 (1899).
 1164. LAIRD J. S., *J. Phys. Chem.*, **24**, 736 (1920).
 1165. LALANDE A., *Bull. Soc. chim. (France)*, (5), **1**, 236 (1934).
 1166. LALANDE A., *J. Chim. Phys.*, **31**, 583 (1934).
 1167. LA MER V. K., GOLDMAN F. H., *J. Am. Chem. Soc.*, **51**, 2632 (1929).
 1168. LA MER V. K., COOK R. G., *J. Am. Chem. Soc.*, **51**, 2622 (1929).
 1169. LAMOUROUX F., *Compt. rend.*, **128**, 998 (1899).
 1170. LAMY, *Ann. chim. phys.*, (5), **14**, 145 (1878).
 1171. LANDAU, *Monatsh. Chem.*, **14**, 712 (1893).

1172. LANE L. B., *Ind. Eng. Chem.*, **17**, 924 (1925).
 1173. LANGE W., *Ber.*, **60**, 962 (1927).
 1174. LANGE W., *Ber.*, **62**, 793 (1929).
 1175. LANGE N. A., SINKS M. H., *J. Am. Chem. Soc.*, **52**, 2602 (1930).
 1176. LANGHELD K., OPPMANN F., *Ber.*, **45**, 3753 (1912).
 1177. LANGE W., MÜLLER E., *Ber.*, **63**, 1067 (1930).
 1178. LANGLEY W. D., NOONAN T. R., *J. Am. Chem. Soc.*, **64**, 2507 (1942).
 1179. LANNUNG A., *J. Am. Chem. Soc.*, **52**, 68 (1930).
 1180. LANNUNG A., *Z. physik. Chem.*, (A), **161**, 255 (1932).
 1181. LANNUNG A., *Z. physik. Chem.*, (A), **170**, 144 (1934).
 1182. LARSON E., *Svensk. kem. Tidskr.*, **39**, 122 (1927).
 1183. LARSON E., ADELL B., *Z. anorg. Chem.*, **196**, 354 (1931).
 1184. LARSON R. G., HUNT H., *J. Phys. Chem.*, **43**, 417 (1939).
 1185. LARSON E., *Z. anorg. Chem.*, **115**, 247 (1926).
 1186. LASZCZYŃSKI S., *Ber.*, **27**, 2285 (1894).
 1187. LATTEY, *Phil. Mag.*, (6), **10**, 398 (1905).
 1188. LAUE E., *Z. anorg. Chem.*, **165**, 325 (1927).
 1189. LAZZELL C. L., JOHNSTON J., *J. Phys. Chem.*, **32**, 1331 (1928).
 1190. LEBEAU P., *Ann. chim. phys.*, (8), **9**, 482 (1906).
 1191. LEBRUN I., *Bull. Soc. chim. (Belg.)*, **39**, 423 (1930).
 1192. LECAT M., *J. Chim. Phys.*, **27**, 75 (1930).
 1193. LEDCOW H. L., *Z. physik. Chem.*, **77**, 311 (1911).
 1194. LEDBURY W., FROST C. W., *J. Soc. Chem. Ind.*, **46**, 120 (1927).
 1195. LEDRUT J., HAUSS L., *Bull. Soc. chim. (Belg.)*, **41**, 104 (1932).
 1196. LEECH P. N., RABAK W., CLARK A. H., *J. Am. Med. Assoc.*, **73**, 757 (1919).
 1197. VAN LEEMPT J. A. M., VAN WIJK W., *Rec. trav. chim.*, **56**, 632 (1937).
 1198. LEGERLOTZ H., *Arch. Pharm.*, **256**, 162 (1918).
 1199. LEFEVRE R. J. W., *J. Chem. Soc.*, 2503 (1932).
 1200. LEFORT, *Ann. chim. phys.*, (5), **15**, 326 (1878).
 1201. LEICK J., *Z. anorg. Chem.*, **210**, 203 (1933).
 1202. LEIDIE, *Compt. rend.*, **95**, 87 (1882).
 1203. LEIDIE, *Compt. rend.*, **111**, 107 (1890).
 1204. LEIGHTON P. A., WILKES J. B., *J. Am. Chem. Soc.*, **70**, 2600 (1948).
 1205. LELAND T. W., MCKETTA J. J., KOBE K. A., *Ind. Eng. Chem.*, **47**, 1265 (1955).
 1206. LEMERCHANDS M., *Compt. rend.*, **187**, 601 (1928).
 1207. LEMMERMAN L. V., DAVIDSON A. W., VAN DER WERF C. A., *J. Am. Chem. Soc.*, **68**
 1361 (1946).
 1208. LENHER V., KAO C. H., *J. Am. Chem. Soc.*, **48**, 1550 (1926).
 1209. LEO R., *Monatsh.*, **43**, 567 (1923).
 1210. LEO H., RIMBACH E., *Biochem. Z.*, **95**, 306 (1919).
 1211. LEONE P., ANGELESCU E., *Gazz. chim. ital.*, **52**, II, 61 (1922).
 1212. LEONE P., BENELLI M., *Gazz. chim. ital.*, **52**, I, 75 (1922).
 1213. LEVI G. R., *Gazz. chim. ital.*, **31**, II, 513 (1901).
 1214. LEVI G. R., *Atti. Accad. nazl. Lincei*, (5), **32**, I, 623 (1923).
 1215. LEVI M. G., *Z. physik. Chem.*, **41**, 110 (1902).
 1216. LEVI S. M., *Z. physik. Chem.*, **106**, 93 (1923).
 1217. LEY H., HEIMBUCHER, *Z. Elektrochem.*, **10**, 303 (1904).
 1218. LICHTY D. M., *J. Am. Chem. Soc.*, **25**, 474 (1903).
 1219. LIEBEN, ROSSI, *Ann. Chem., Liebig's*, **159**, 60 (1871).
 1220. LIEBHAFSKY H. A., *J. Am. Chem. Soc.*, **71**, 1468 (1949).
 1221. LIEBERMANN C., *Ber.*, **36**, 180 (1903).
 1222. LINDEN T., van der, *Aron. Suikerind.*, **24**, 1113 (1916).
 1223. LINDET, *Compt. rend.*, **101**, 1492 (1885).
 1224. LINDNER J., *Monatsh. Chem.*, **33**, 645 (1912).
 1225. LINDSTRAND F., *Z. anorg. Chem.*, **230**, 187 (1936).

1226. LINEBARGER C. E., *J. Am. Chem. Soc.*, **15**, 45 (1893).
 1227. LINEBARGER C. E., *J. Am. Chem. Soc.*, **16**, 214 (1894).
 1228. LINEBARGER C. E., *Am. J. Sci.*, **49**, 48 (1895).
 1229. LINHARD M., *Z. anorg. Chem.*, **239**, 155 (1938).
 1230. LINHARD M., STEPHAN M., *Z. physik. Chem.*, **163**, 185 (1933).
 1231. LINHARD M., STEPHAN M., *Z. physik. Chem.*, **167**, 87 (1934).
 1232. LLOYD S. J., *J. Phys. Chem.*, **22**, 300 (1918).
 1233. LLOYD E., BROWN C. B., GLYNWYN D., BONNELL R., JONES W. J., *J. Chem. Soc.*, 658 (1928).
 1234. LOCKE, *J. Am. Chem. Soc.*, **26**, 174 (1901).
 1235. LOCKE, *J. Am. Chem. Soc.*, **27**, 459 (1902).
 1236. LOGAN T. S., *J. Am. Chem. Soc.*, **67**, 1182 (1945).
 1237. LONGUIMINE, *Ann. Chem. Liebig's*, **121**, 123 (1862).
 1238. LOOMIS A. G., *J. Am. Chem. Soc.*, **44**, 8 (1922).
 1239. LORD R. C., *J. Phys. Chem.*, **11**, 182 (1907).
 1240. LOSKIT K., *Z. physik. Chem.*, **134**, 135, 156 (1928).
 1241. LÖWENHERZ R., *Z. physik. Chem.*, **25**, 395 (1898).
 1242. LUCASSE W., KOOB R. P., MILLER J. G., *J. Phys. Chem.*, **48**, 85 (1944).
 1243. LUCCHI G., *Tabell. Annuel.*, **1**, 381, 403 (1910).
 1244. LUMSDEN J., *J. Chem. Soc.*, **81**, 355 (1902).
 1245. LUMSDEN J. G., *J. Chem. Soc.*, **89**, 90 (1905).
 1246. LUNDEN H., *Z. physik. Chem.*, **54**, 564 (1905—1906).
 1247. LUTZ O., *Ber.*, **35**, 2462 (1902).

 1248. MAASS O., BOOMER E. H., *J. Am. Chem. Soc.*, **44**, 1720 (1922).
 1249. MAASS O., HATCHER W. A., *J. Am. Chem. Soc.*, **44**, 2473 (1922).
 1250. MAASS O., HERZBERG O. W., *J. Am. Chem. Soc.*, **42**, 2569 (1920).
 1251. MACADAM D. J., PIERLE C. A., *J. Am. Chem. Soc.*, **34**, 604 (1912).
 1252. MACBAIN J. W., BROCK G. C., VOLD R. D., VOLD M. J., *J. Am. Chem. Soc.*, **60**, 1870 (1938).
 1253. MACBAIN J. W., EATON M., *J. Am. Chem. Soc.*, **131**, 2166 (1928).
 1254. MACBAIN J. W., FIELD M. C., *J. Chem. Soc.*, 920 (1933).
 1255. MACBAIN J. W., LOZARUS L. H., PITTEN A. V., *Z. physik. Chem.*, (A), **147**, 87 (1930).
 1256. MACBRIDE R. S., *J. Phys. Chem.*, **14**, 189 (1910).
 1257. MACBRIDE W., HENRY R. A., COHEN J., SCOLNIK S., *J. Am. Chem. Soc.*, **73**, 485 (1951).
 1258. MACBRIDE W., HENRY R. A., SMITH G. B. L., *J. Am. Chem. Soc.*, **71**, 2937 (1949).
 1259. MACCOMBIE H., READE T. H., *J. Chem. Soc.*, **123**, 151 (1923).
 1260. MACCOMBIE H., SCHARBOROUGH H. A., SMITH F. F. P., *J. Chem. Soc.*, **130**, 802 (1927).
 1261. MACCULLOCK L., *J. Am. Chem. Soc.*, **59**, 2650 (1937).
 1262. MACCUNE L. K., WILHELM R. H., *Ind. Eng. Chem.*, **41**, 1124 (1949).
 1263. MACDANIEL A. S., *J. Phys. Chem.*, **15**, 587 (1911).
 1264. MACDERMOTT F. A., *J. Am. Chem. Soc.*, **33**, 1963 (1911).
 1265. MACDOWELL L. A., JOHNSTON H. L., *J. Am. Chem. Soc.*, **58**, 2009 (1936).
 1266. MACEWEN B. C., *J. Chem. Soc.*, **123**, 2279 (1923).
 1267. MACINTOSH D., *Bull. Chem. soc., (Japan)*, **3**, 82 (1928).
 1268. MACKELVV E. C., SIMPSON D. H., *J. Am. Chem. Soc.*, **44**, 105 (1922).
 1269. MACKENNA F. E., TARTAR H. V., LINGAFELTER E. C., *J. Am. Chem. Soc.*, **71**, 729 (1949).
 1270. MACKINNIS A. C., *Ind. Eng. Chem.*, **47**, 850 (1955).
 1271. MACLANGHLIN E. P., SCOTT R. L., *J. Phys. Chem.*, **60**, 674 (1956).
 1272. MACMASTER L., BENDER E., WEIL E., *J. Am. Chem. Soc.*, **43**, 1205 (1921).
 1273. MACMASTER L., PRATTLE P. K., *J. Am. Chem. Soc.*, **45**, 2999 (1923).
 1274. MACMASTER L., PRATTLE P. K., *Chem. News*, **129**, 4 (1924).

1275. MACMEEKIN T. L., COHN E. J., WEARE J. H., *J. Am. Chem. Soc.*, **58**, 2173 (1936).
1276. MACY R., *J. Am. Chem. Soc.*, **47**, 1031 (1925).
1277. MACY R., THOMAS E. W., *J. Am. Chem. Soc.*, **48**, 1547 (1926).
1278. MACHACEK Z., LANIKOVA J., *Chem. listy*, **48**, 276 (1954).
1279. MAGNE F. C., SKAU E. L., *J. Am. Chem. Soc.*, **74**, 2628 (1952).
1280. MAI J., *Ber.*, **61**, 1808 (1928).
1281. MAILFERT, VON, *Compt. rend.*, **119**, 951 (1894).
1282. MAINS G. H., *Chem. Met. Eng.*, **26**, 779 (1922).
1283. MALHOTRA K. L., *J. Indian Chem. Soc.*, **5**, 545 (1928).
1284. MALMY M., *J. pharm. chim.*, (8), **4**, 111 (1956).
1285. MALQUORI G., *Atti. Accad. nazl. Lincei.*, (6), **5**, 892 (1927).
1286. MALQUORI G., *Gazz. chim. ital.*, **58**, 209 (1928).
1287. MALQUORI G., *Atti. Accad. nazl. Lincei.*, (6), **9**, 569 (1929).
1288. MAMELI E., *Giorn. chim. ind. appl.*, **4**, 293 (1922).
1289. MANCHOT W., ORTNER R., *Z. anorg. u. allgem. Chem.*, **120**, 300 (1922).
1290. MANDELBAUM R., *Z. anorg. Chem.*, **62**, 370 (1909).
1291. MAPLETHORPE C. V., EVERS N., *Pharm. J.*, **115**, 137 (1925).
1292. MARC R., *Z. anorg. Chem.*, **48**, 425 (1906).
1293. MARCHIONNESCHI M., *Apoth. Zig.*, **22**, 544 (1907).
1294. MARCKWALD W., *Ber.*, **35**, 1599 (1902).
1295. MARCKWALD W., *Ber.*, **37**, 1041 (1904).
1296. MARDLES E. W. J., *J. Soc. Chem. Ind.*, **42**, 127 (1923).
1297. MARDLES E. W. J., *Trans. Faraday Soc.*, **26**, 750 (1930).
1298. MAREK J., *Cb. chekhosl. khim. rabot.*, **21**, 269 (1956).
1299. MARGOSCHES, HINNER, FRIEDMANN, *Z. anorg. Chem.*, **137**, 83 (1924).
1300. MARGNAC, *Ann. chim. phys.*, (3), **39**, 184 (1853).
1301. MARGNAC, *J. Prakt. Chem.*, **83**, 202 (1861).
1302. MARGNAC, *Ann. chim. phys.*, (4), **8**, 65 (1866).
1303. MARINO, *Gazz. chim. ital.*, **35**, 351 (1905).
1304. MARKWALD W., *Ber.*, **35**, 1599 (1902).
1305. MARSH J. K., *J. Chem. Soc.*, 554 (1939).
1306. MARSH J. K., STRUTHERS R., *J. Chem. Soc.*, **87**, 1879 (1905).
1307. MARSHALL, *J. Chem. Soc.*, **59**, 771 (1891).
1308. MARSHALL A., *J. Chem. Soc.*, **89**, 1381 (1906).
1309. MARSHALL H., BAIN D., *J. Chem. Soc.*, **97**, 1074 (1910).
1310. MARSHALL A. L., EPSTEIN L. F., NORTON F. J., *J. Am. Chem. Soc.*, **72**, 3514 (1950).
1311. MARSHALL W. L., GILL J. S., SECOY C. H., *J. Am. Chem. Soc.*, **73**, 1867 (1951).
1312. MARTIN, *Arch. Eisenhüttenw.*, **3**, 412 (1929).
1313. MARTIN D. R., *J. Am. Chem. Soc.*, **67**, 1088 (1945).
1314. MARTIN E. P., PINK R. C., *J. Chem. Soc.*, **11**, 1750 (1948).
1315. MASAKI K., *Bull. Chem. Soc. (Japan)*, **5**, 345 (1930).
1316. MASAKI K., *Bull. Chem. Soc. (Japan)*, **6**, 143, 163 (1931).
1317. MASON L. S., *J. Am. Chem. Soc.*, **69**, 3000 (1947).
1318. MASON R. B., MATHEWS J. H., *J. Phys. Chem.*, **29**, 1179 (1925).
1319. MASSON J. J. O., *J. Chem. Soc.*, **99**, 1132 (1911).
1320. MATHESON G. L., MAAS O., *J. Am. Chem. Soc.*, **51**, 674 (1929).
1321. MATHEWS J. H., BENDER E. B., *J. Phys. Chem.*, **18**, 264 (1914).
1322. MATHEWS J. H., RITTER P. A., *J. Phys. Chem.*, **21**, 269 (1917).
1323. MATHEWS J. H., SPERO S., *J. Phys. Chem.*, **21**, 402 (1917).
1324. MATHUR R. P., DHAR N. F., *Z. anorg. Chem.*, **199**, 387 (1931).
1325. MATIGNON C., *Ann. chim. et phys.*, (8), **8**, 249, 388, 407 (1906).
1326. MATIGNON C., *Compt. rend.*, **148**, 550 (1909).
1327. MATIGNON C., DODE M., *Compt. rend.*, **194**, 1289 (1932).
1328. MATIGNON C., DODE M., *Bull. soc. chim. (France)*, (5), **1**, 1114 (1934).
1329. MAURER R. J., *J. Phys. Chem.*, **42**, 515 (1938).

1330. MAXTED E. B., MOON C. H., *Trans. Faraday Soc.*, **32**, 769 (1936).
1331. MAY O. E., WEISBERG S. H., HERRICK H. T., *J. Wash. Acad. Sci.*, **19**, 443 (1929).
1332. MAYER O., *Ber.*, **36**, 1741 (1903).
1333. MAZZUCHELLI A., ROSA A., *Atti. Accad. Nazl. Lincei.* (5), **30**, 270 (1921).
1334. MEDES G., *Proc. Soc. Exp. Biol. Med.*, **23**, 237 (1925—1926).
1335. MEERBURG P. A., *Z. physik. Chem.*, **40**, 647 (1902).
1336. MEERBURG P. A., *Z. anorg. Chem.*, **33**, 299 (1903).
1337. MEERBURG P. A., *Z. anorg. Chem.*, **45**, 324 (1905).
1338. MEHU, *J. pharm. chim.*, (5), **12**, 249 (1885).
1339. MEINEKE, *Ann. Chem. Liebig's*, **261**, 360 (1891).
1340. MELCHER A. C., *J. Am. Chem. Soc.*, **32**, 50 (1910).
1341. MELDRUM R., *Chem. News*, **108**, 199 (1913).
1342. MENSSER A., *Z. anorg. Chem.*, **44**, 80 (1905).
1343. MENZEL H., *Z. anorg. Chem.*, **164**, 1, 34; **166**, 67, 181 (1927).
1344. MENZEL H., GÄBLER C., *Z. anorg. Chem.*, **177**, 187 (1929).
1345. MENZEL H., HAGEN W., *Z. anorg. Chem.*, **177**, 187 (1937).
1346. MENZEL H., SIEG L., *Z. Electrochem.*, **38**, 287 (1932).
1347. MENZIES A. W. C., *J. Am. Chem. Soc.*, **58**, 934 (1936).
1348. MENZIES A. W. C., HUMPHREY E. C., *8 Int. Congr. Appl. Chem.*, **2**, 175 (1912).
1349. MENZIES A. W. C., POTTER P. D., *J. Am. Chem. Soc.*, **34**, 1452 (1912).
1350. MERRIMAN R. W., *J. Chem. Soc.*, **103**, 1774 (1913).
1351. MERZ, MÜLHAUSER, *Ber.*, **3**, 710 (1870).
1352. MESCHERZKI, *Z. anal. Chem.*, **21**, 399 (1882).
1353. MEURS, VON C. J., *Z. physik. Chem.*, **91**, 313 (1916).
1354. MEUSSER A., *Ber.*, **34**, 2435 (1901).
1355. MEUSSER A., *Ber.*, **35**, 1303, 1416, 1422 (1902).
1356. MEYER J., *Z. Elektrochem.*, **15**, 266 (1909).
1357. MEYER J., *Ber.*, **44**, 2969 (1911).
1358. MEYER J., AULICH N., *Z. anorg. Chem.*, **172**, 321 (1928).
1359. MEYER J., FRIEDRICH W., *Z. physik. Chem.*, **102**, 369 (1922).
1360. MEYER J., HINKE W., *Z. anorg. Chem.*, **204**, 30 (1932).
1361. MEYER J., KITTELMANN C., *Z. anorg. Chem.*, **195**, 121 (1931).
1362. MEYER K., DUNKEL M., *Z. physik. Chem.*, 556 (1931).
1363. MEYER R. J., MÜLLER U., *Z. anorg. allgem. Chem.*, **109**, 15 (1920).
1364. MEYER V., *Ber.*, **8**, 998 (1875).
1365. MICHAEL A., *Ber.*, **34**, 3641, 3656 (1901).
1366. MICHAEL A., GARNER W. W., *Ber.*, **36**, 904 (1903).
1367. MICHELS A., *Arch. néerl. Sci. Ex. et Nat.*, (3), **A6**, 127 (1922).
1368. MICHELS A., TEN HAAF E. C. F., *Proc. Acad. Sci. (Amsterdam)*, **30**, 52 (1927).
1369. MICWITZ A., *Z. anorg. Chem.*, **176**, 277 (1928).
1370. MICWITZ A., *Z. anorg. Chem.*, **196**, 113 (1931).
1371. MICZYNSKI, *Monatsh. Chem.*, **7**, 255, 263 (1886).
1372. MIDDENDORP J. A., *Rec. trav. chim.*, **38**, 1 (1919).
1373. MIERS H. A., ISAAK F., *Trans. Roy. Soc.*, **209A**, 364 (1908).
1374. MILES F. T., MENZIES A. W. C., *J. Am. Chem. Soc.*, **56**, 2392 (1937).
1375. MILLER C., *J. Chem. Soc.*, 1847 (1928).
1376. MILLIKAN J., *Z. physik. Chem.*, **92**, 59 (1917).
1377. MION M., *Compt. rend.*, **193**, 1330 (1931).
1378. MISCIATELLI P., *Gazz. chim. ital.*, **60**, 833 (1930).
1379. MISLOW K., *J. Phys. Colloid Chem.*, **52**, 729 (1948).
1380. MISLOW K., *J. Phys. Colloid Chem.*, **52**, 740 (1948).
1381. MITCHELL S., *J. Chem. Soc.*, **129**, 1333 (1926).
1382. MIYAKA S., *Mem. Coll. Eng. Kyuscha Imp. Univ.*, **3**, 187 (1925).
1383. MOD R. R., SKAN E. L., *J. Phys. Chem.*, **56**, 1016 (1952).
1384. MOER J., VAN DER, *Rec. trav. chim.*, **10**, 47 (1891).

1385. MOESVELD A. L. T., *Verslag Akad. Wet. (Amsterdam)*, **26**, 134 (1917).
1386. MOLSSAN H., *Bull. Soc. chim.*, (2), **37**, 296 (1882).
1387. MOISSAN H., SIEMENS F., *Ber.*, **37**, 2088 (1904).
1388. MOLES E., GONZALEZ F., *Anal. Soc. esp. fis. y. quim.*, **21**, 204 (1923).
1389. MOLES E., JIMENO E., *Anal. real Soc. espan. fis. y. quim.*, **11**, 393 (1913).
1390. MOLES E., MARQUINA M., *Anal. real Soc. espan. fis. y. quim.*, **22**, 551 (1924).
1391. MOLES E., PORTILLO R., *Anal. real Soc. espan. fis. y. quim.*, **22**, 133 (1924).
1392. MONDAIN-MONVAL P., SCHLEGEL H., *Ann. chim.*, (10), **3**, 72 (1925).
1393. MOORE B., WILSON F. P., HUTCHINSON L., *Biochem. J.*, **4**, 347 (1909).
1394. MOREY G. W., *J. Am. Chem. Soc.*, **74**, 5783 (1952).
1395. MORGAN J. C., JAMES C., *J. Am. Chem. Soc.*, **36**, 10 (1914).
1396. MORGAN J. C., PYNE H. R., *J. Phys. Chem.*, **34**, 1578, 2045 (1930).
1397. MORRELL R. S., *J. Chem. Soc.*, **113**, 111 (1918).
1398. MORRIS T. C., *Ind. Eng. Chem.*, **24**, 584 (1932).
1399. MORRISON T. J., JOHNSTONE N. B., *J. Chem. Soc.*, **10**, 3441 (1954).
1400. MORSE H., *Z. physik. Chem.*, **41**, 708 (1902).
1401. MORTIMER F. S., *J. Am. Chem. Soc.*, **45**, 633 (1923).
1402. MOSER L., HACKHOFFER H., *Monatsh. Chem.*, **59**, 44 (1932).
1403. MOSER L., RITSCHER E., *Monatsh. Chem.*, **46**, 9 (1925).
1404. MOUREAU C., DUFRAISSE C., BLATT H., *Bull. Soc. chim. (France)*, (4), **35**, 1412 (1924).
1405. MOUSSERON M., GRAVIER P., *Bull. Soc. chim. (France)*, **51**, 1382 (1932).
1406. MOYLE M. P., TYNER M., *Ind. Eng. Chem.*, **45**, 1794 (1953).
1407. MUELLER J. H., *J. Biol. Chem.*, **30**, 39 (1917).
1408. MUIR, *J. Chem. Soc.*, **29**, 857 (1876).
1409. MÜLLER E., *Z. physik. Chem.*, **110**, 363 (1924).
1410. MÜLLER J., *Z. anorg. u. allgem. Chem.*, **96**, 29 (1916).
1411. MÜLLER J. H., GULEZIAN C. E., *J. Am. Chem. Soc.*, **51**, 2029 (1929).
1412. MÜLLER J. M., *Proc. Am. Phil. Soc.*, **65**, 44, 193 (1927).
1413. MÜLLER R., *Z. anorg. u. allgem. Chem.*, **142**, 130 (1924—1925).
1414. MÜLLER R., *Z. Elektrochem.*, **38**, 227 (1932).
1415. MÜLLER R., *Z. Elektrochem.*, **38**, 450 (1932).
1416. MÜLLER R., PRINTER E., PRETT K., *Monatsh. Chem.*, **48**, 660 (1925).
1417. MÜLLER R., RASCHKA, WITTEMANN, *Monatsh. Chem.*, **48**, 660 (1927).
1418. MÜLLER W., *Apoth. Ztg.*, **18**, 208, 249, 257 (1903).
1419. MÜLLER, KAUFMANN, *Z. physik. Chem.*, **42**, 497 (1901—1902).
1420. MURATA K., *J. Soc. Chem. Ind. (Japan)*, *Suppl.* **35**, 523b (1932).
1421. MURRAY A. G., *J. Ass. offic. Agr. Chem.*, **12**, 309 (1929).
1422. MUTHMANN, KUNTZE, *Z. krist. Min.*, **23**, 368 (1894).
1423. MUTHMANN, RÖLIG, *Z. anorg. Chem.*, **16**, 455 (1898).
1424. MYLIUS F., *Ber.*, **34**, 2208 (1901).
1425. MYLIUS F., *Z. anorg. Chem.*, **70**, 209 (1911).
1426. MYLIUS F., DIETZ, *Ber.*, **34**, 2208 (1901).
1427. MYLIUS F., FUNK R., *Ber.*, **30**, 1718 (1897).
1428. MYLIUS F., FUNK R., *Wiss. Abhandl. physik.-tech. Reichsanstalt*, **3**, 444, 451 (1900).
1429. MYLIUS F., WROCHEM J., *Wiss. Abhandl. physik.-tech. Reichsanstalt*, **3**, 462 (1900).
1430. NACHOD F. C., *Z. physik. Chem.*, **182**, 193 (1938).
1431. NAKATSUCHI A., *J. Soc. Chem. Ind. (Japan)*, **33**, 182 (1930).
1432. NASINI R., AGENO J., *Z. physik. Chem.*, **69**, 482 (1910).
1433. NAUDE S. M., *Z. physik. Chem.*, **125**, 98 (1927).
1434. NAUMANN A., *Ber.*, **37**, 3600, 4328 (1904).
1435. NAUMANN A., *Ber.*, **38**, 2293 (1905).
1436. NAUMANN A., *Ber.*, **42**, 3789 (1909).
1437. NAUMANN A., *Ber.*, **43**, 313 (1910).
1438. NAUMANN A., *Ber.*, **47**, 1370 (1914).

1439. NAUMANN A., SCHIER A., *Ber.*, **47**, 249 (1914).
 1440. NEAVE G. B., *Analyst*, **37**, 399 (1912).
 1441. NEGISHI G. R., DONNALLY L. H., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **55**, 4793 (1933).
 1442. NELSON E. E., BONNELL W. S., *Ind. Eng. Chem.*, **35**, 204 (1943).
 1443. NELSON O. A., SMITH L. E., *J. Am. Chem. Soc.*, **64**, 1057 (1942).
 1444. NEUHAUSEN B. S., PATRICK W. A., *J. Phys. Chem.*, **25**, 693 (1921).
 1445. NEUMAN E. W., *J. Am. Chem. Soc.*, **55**, 879 (1933).
 1446. NEWBERY E., *Trans. Elektrochem. Soc.*, **69**, 611 (1936).
 1447. NEWITT D. M., WEALE K. E., *J. Chem. Soc.*, 1541 (1948).
 1448. NIEMENTOWSKI S., ROSZKOWSKI T., *Z. physik. Chem.*, **22**, 146 (1897).
 1449. NISHIZAWA K., *J. Chem. Ind. (Tokyo)*, **23**, 25, 1015 (1920).
 1450. NIMS L. F., BONNER D., *J. Phys. Chem.*, **33**, 586 (1929).
 1451. NODDACK I., *Z. anorg. Chem.*, **181**, 25 (1929).
 1452. NODDACK I., NODDACK W., *Z. angew. Chem.*, **44**, 215 (1931).
 1453. NOORDUYN A. C., *Rec. trav. chim.*, **38**, 345 (1919).
 1454. NORDENSKJOLD, LINDSTROM, *Pogg. Ann.*, **136**, 314 (1869).
 1455. NOSS F., in: LANDOLT a. BÖRNSTEIN. *Tabellen*. 4 Ed., 467 (1912).
 1456. NOYES A. A., *Z. physik. Chem.*, **6**, 248 (1890).
 1457. NOYES A. A., ABBOT C. G., *Z. physik. Chem.*, **16**, 130 (1895).
 1458. NOYES A. A., FARREL F. S., *J. Am. Chem. Soc.*, **33**, 1654 (1911).
 1459. NOYES A. A., KOHR D. A., *J. Am. Chem. Soc.*, **24**, 1144 (1902).
 1460. NOYES A. A., SCHWARTZ D., *Z. physik. Chem.*, **27**, 279 (1898).
 1461. NOYES A. A., STEWART M. A., *J. Am. Chem. Soc.*, **33**, 1658 (1911).
 1462. NUKA P., *Z. anorg. Chem.*, **180**, 235 (1929).
 1463. NYLEN P., *Ber.*, **59B**, 1122 (1926).
 1464. O'CONNOR E. A., *J. Chem. Soc.*, **119**, 400 (1921).
 1465. ODAIRA I., *Mem. Coll. Sci. (Kyoto)*, **1**, 324 (1915).
 1466. OGAWA E., *J. Chem. Soc. (Japan)*, **51**, 4, 193 (1930).
 1467. OLIVARI-MANDALA E., *Gazz. chim. ital.*, **56**, 889 (1926).
 1468. OLIVARI-MANDALA E., IRRERA L., *Gazz. chim. ital.*, **60**, 872 (1930).
 1469. OLSSON F., *Z. anorg. Chem.*, **187**, 313 (1930).
 1470. ORDWAY, *Am. J. Sci.*, (2), **40**, 173 (1865).
 1471. ORMÁNDY W. R., CRAVEN E. C., *J. Inst. Petrol. Technologists*, **7**, 325, 422 (1921).
 1472. ORTON K. J. P., KING H., *J. Chem. Soc.*, **125**, 766 (1911).
 1473. OSAKA Y., *Mem. Coll. Sci. Eng. (Kyoto)*, **1**, 93, 265, 290 (1908).
 1474. OSAKA Y., ABE R., *J. Tor. Chem. Soc.*, **32**, 446 (1911).
 1475. OSOL A., KILPATRICK M., *J. Am. Chem. Soc.*, **55**, 4440 (1933).
 1476. OSSENDOWSKI A. M., *J. pharm. chim.*, (6), **26**, 162 (1907).
 1477. OSSENDOWSKI A. M., *Pharm. J.*, **79**, 575 (1907).
 1478. OSWALD M., *Ann. Chim.*, **1**, 57 (1914).
 1479. OTHMER D. F., WHITE R. E., TRUEGER E., *Ind. Eng. Chem.*, **33**, 1513 (1941).
 1480. PACKER J., RIVETT A. C. D., *J. Chem. Soc.*, **129**, 1061 (1926).
 1481. PAGEL H. A., RUYLE W. V., *J. Am. Chem. Soc.*, **65**, 2186 (1943).
 1482. PAJETTA R., *Gazz. chim. ital.*, **36**, 67, 155, 300 (1906).
 1483. PAJETTA R., *Pharm. J.*, **79**, 315 (1907).
 1484. PALIT S. R., *J. Am. Chem. Soc.*, **69**, 3120 (1947).
 1485. PALIT S. R., MCBAIN J. W., *Ind. Eng. Chem.*, **38**, 741 (1946).
 1486. PALITZSCH S., *Z. physik. Chem.*, **145A**, 97 (1929).
 1487. PALMAEZ, *Ber.*, **23**, 3817; **24**, 2090 (1891).
 1488. PARK J. G., HOFMAN H. E., *Ind. Eng. Chem.*, **24**, 132 (1932).
 1489. PARK J. G., HOPKINS M. D., *Ind. Eng. Chem.*, **22**, 827 (1930).
 1490. PARKS W. G., CAMPANELLA J. L., *J. Phys. Chem.*, **40**, 333 (1936).

1491. PARKS G. S., HUFFMANN H. M., CATTOIR F. R., *J. Phys. Chem.*, **32**, 1366 (1928).
1492. PARKS W. G., MORAN W. G., *J. Phys. Chem.*, **41**, 343 (1937).
1493. PARMENTIER, *Compt. rend.*, **104**, 686 (1887).
1494. PARMENTIER, *Compt. rend.*, **114**, 1002 (1892).
1495. PARRAVANO N., FORNAINI M., *Gazz. chim. ital.*, **37**, 521 (1907).
1496. PARRAVANO N., MIELI A., *Atti. Accad. nazl. Lincei*, (5), **16**, 465 (1908).
1497. PARTHEIL, HÜBNER, *Arch. Pharm.*, **241**, 413 (1903).
1498. PARTHEIL, HÜBNER, *Arch. Pharm.*, **241**, 554, (1903).
1499. PARTINGTON J. R., STONEHILL H. J., *Phil. Mag.*, (7), **22**, 857 (1936).
1500. PARTINGTON I. R., WINTERTON R. I., *Trans. Faraday. Soc.*, **30**, 619 (1934).
1501. PARTRIDGE E. P., WHITE A. H., *J. Am. Chem. Soc.*, **51**, 360 (1929).
1502. PARVATKER R. R., MCEWEN B. C., *J. Chem. Soc.*, **125**, 1484 (1924).
1503. PASCAL P., DUPUY, *Bull. Soc. chim. (France)*, (4), **27**, 353 (1920).
1504. DE PASSILLE A., *Ann. Chim.*, (II), **5**, 85 (1936).
1505. PATSCHEKE G., *Z. physik. Chem.*, **163A**, 340 (1933).
1506. PATSCHEKE G., TANNE C., *Z. physik. Chem.*, **174**, 135 (1935).
1507. PATTEN H. E., MOTT W. R., *Z. physik. Chem.*, **8**, 153 (1904).
1508. PATTERSON A. M., *J. Am. Chem. Soc.*, **28**, 1735 (1906).
1509. PAUL T., *Z. physik. Chem.*, **14**, 111 (1894).
1510. PAUL T., *Arb. Reichsgesundh. Amt.*, **57**, 94 (1926).
1511. PAULI W., STEINZINGER T., *Biochem. Z.*, **205**, 71 (1929).
1512. PAUW P. F. M., *Tabell. Annual.*, **5**, 929 (1926).
1513. PAVLOPOULOS T., STREHLOW H., *Z. physik. Chem.*, **202**, 474 (1954).
1514. PAWLEWSKI B., *Chem. Polsk.*, **14**, 245 (1914).
1515. PAWLEWSKI B., *Tabell. Annual.*, **5**, 947 (1926).
1516. PAYEN, *Compt. rend.*, **34**, 356 (1852).
1517. PAYNE J. H., *J. Am. Chem. Soc.*, **56**, 947 (1937).
1518. PEARCE J. N., FRY E. J., *Z. physik. Chem.*, **18**, 667 (1914).
1519. PEARCE J. N., MOORE T. E., *Am. Chem. J.*, **50**, 218 (1913).
1520. PEEBLE C. J., TURNER W. E. C., *J. Chem. Soc.*, **103**, 1205 (1913).
1521. PELLINI G., COPPOLA A., *Atti. Accad. nazl. Lincei*, (5), **23**, 147 (1913).
1522. PELOUZE, *Compt. rend.*, **68**, 1179; **69**, 56 (1869).
1523. PENNINGTON E. N., MARWIL S. J., *Ind. Eng. Chem.*, **45**, 1371 (1953).
1524. PERMAN E. P., *J. Chem. Soc.*, **83**, 1168 (1903).
1525. PERRAKIS N., *Z. chem. Phys.*, **22**, 280 (1925).
1526. PERTZOFF V. A., *J. Biol. Chem.*, **100**, 97 (1933).
1527. PETERSON B. H., MEYERS E. L., *J. Am. Chem. Soc.*, **52**, 4853 (1930).
1528. PFANNE M., *Monatsh. Chem.*, **32**, 250 (1911).
1529. PFEIFFER P., ANGERN O., *Z. physiol. Chem.*, **133**, 180 (1924).
1530. PHELPS J. K., PALMER H. E., *J. Am. Chem. Soc.*, **39**, 140 (1917).
1531. PHILIP J. C., *J. Chem. Soc.*, **83**, 814 (1903).
1532. PHILIP J. C., COLBORNE R. C., *J. Chem. Soc.*, **125**, 492 (1924).
1533. PHILIP J. C., COLBORNE R. C., *J. Chem. Soc.*, **95**, 1466 (1924).
1534. PHILLIPS M., *J. Am. Chem. Soc.*, **46**, 689 (1924).
1535. PHILLIPS J. P., PRICE H. P., *J. Am. Chem. Soc.*, **73**, 4414 (1951).
1536. PIATER J., *Z. anorg. Chem.*, **174**, 321 (1928).
1537. PIATTI L., *Z. angew. Chem.*, **44**, 519 (1931).
1538. PICKERING S. U., *Ber.*, **26**, 2307 (1893).
1539. PICKERING S. U., *J. Chem. Soc.*, **63**, 463, 998 (1893); **67**, 669 (1895).
1540. PICKERING S. U., *J. Chem. Soc.*, **107**, 942 (1915).
1541. PICON M., *Bull. Soc. chim.*, (4), **35**, 1093 (1924).
1542. PICON M., *Bull. Soc. chim. (France)*, (4), **49**, 399 (1931).
1543. PICON M., *J. pharm. chim.*, (8), **13**, 399 (1931).
1544. PICON M., *Bull. Soc. chim. (France)*, (5), **1**, 926 (1934).
1545. PICON M., *J. pharm. chim.*, (8), **20**, 49 (1934).

1546. PINKUS A., MARTIN F., *J. Chim. Phys.*, **24**, 83, 137 (1927).
 1547. PLATT J. H., HUDSON D., *J. Soc. Dyers Colourists*, **42**, 348 (1926).
 1548. PLEISSNER M., *Arb. Kaiserl. Gesundh. Amt.*, **26**, 384 (1907).
 1549. POE C. F., SUCKY J. F., BACKER G. L., *J. Phys. Chem.*, **39**, 239 (1924).
 1550. POGGIALE, *Ann. chim. phys.*, (3), **8**, 467 (1843).
 1551. POHL, *Sitzber. Akad. Wiss. Wien*, **6**, 595 (1851).
 1552. POHL, *J. Prakt. Chem.*, **56**, 216 (1852).
 1553. POLLOCK D. L., COLLETT A. R., LASSELL C. L., *J. Phys. Chem.*, **50**, 23 (1946).
 1554. POOL W. O., HARWOOD H. J., RALSTON A. W., *J. Am. Chem. Soc.*, **67**, 775 (1945).
 1555. PORLEZZA C., *Atti. Accad. nazl. Lincei*, (5), **23**, 509, 597 (1914).
 1556. PORTILLO R., *Anal. Soc. fis. quim. (Madrid)*, **28**, 236, 351 (1929).
 1557. PORTILLO R., ALBEROLA L., *Anal. Soc. fis. quim. (Madrid)*, **28**, 1187 (1930).
 1558. POSTMA S., *Rec. trav. chim.*, **39**, 515 (1920).
 1559. POWER F. B., *Am. J. Pharm.*, **54**, 97 (1882).
 1560. POWER E. B., TUTIN, *J. Chem. Soc.*, **87**, 24 (1905).
 1561. POWERS P. O., *Ind. Eng. Chem.*, **41**, 126 (1949).
 1562. PRANDTL W., DUCKER H., *Z. anorg. u. allgem. Chem.*, **150**, 105 (1926).
 1563. PRATOLONGO U., *Atti. Accad. nazl. Lincei*, (5), **22**, 388 (1913).
 1564. PRAY H. A., SCHWEICKERT C. E., MINNICH B. H., *Ind. Eng. Chem.* **44**, 1146 (1952).
 1565. PRINGSHEIM H., DERNIKOS D., *Ber.*, **55B**, 1443 (1922).
 1566. PROCV D., *Coll. Czechoslov. Chem. Commun.*, **1**, 95 (1929).
 1567. PRUTTON C. F., TOWER O. F., *J. Am. Chem. Soc.*, **54**, 3040 (1932).
 1568. VON PRZYLECKI S. Y., KASPRZYK-CZAYKOWSKA K., *Biochem. Z.*, **298**, 328 (1938).
 1569. PUCHER G., DEHN W. M., *J. Am. Chem. Soc.*, **43**, 1753 (1921).
 1570. PUCKNER W. A., HILPERT W. S., *J. Am. Med. Assoc.*, **52**, 311 (1909).
 1571. PUCKNER W. A., WARREN L. E., *Proc. Am. Pharm. Assoc.*, **58**, 1007 (1910).
 1572. PUGH W. *J. Chem. Soc.*, 2828 (1926).
 1573. PUGH W., *Trans. Roy. Soc. S. Africa*, **21**, 67 (1932).
 1574. PULLEY, *Ind. Eng. Chem. (Anal. Ed.)*, **8**, 360 (1936).
 1575. PUSCHIN N. A., GLAGOLEWA A. A., *J. Chem. Soc.*, **121**, 2813 (1922).
1576. QUAM G. N., *Ind. Eng. Chem.*, **21**, 703 (1929).
 1577. QUINET L., *Bull. Soc. chim. (France)*, (5), **2**, 1201 (1935).
 1578. QUINN E. L., *Ind. Eng. Chem.*, **20**, 735 (1928).
 1579. QUINN E. L., *J. Am. Chem. Soc.*, **50**, 672 (1928).
1580. RABE W. O., *Z. physik. Chem.*, **38**, 175 (1901).
 1581. RABINOWITSCH M., JAKUBSOHN S., *Z. anorg. allg. Chem.*, **129**, 55 (1923).
 1582. RADAN, *Ann. Chem., Liebig's*, **251**, 129 (1889).
 1583. RAHLENBERG L., KRANSKOPF F. C., *J. Am. Chem. Soc.*, **30**, 1104 (1908).
 1584. RAMMELSBERG, *Pogg. Ann.*, **44**, 575 (1838).
 1585. RAMMELSBERG, *J. Prakt. Chem.*, (2), **45**, 153 (1892).
 1586. RAMSTEDT E., *Radium*, **8**, 253 (1911).
 1587. RANDALL M., MCKENNA F. E., *J. Am. Chem. Soc.*, **73**, 4859 (1951).
 1588. RAVITZ S. F., *J. Phys. Chem.*, **40**, 61 (1936).
 1589. REBIERE G., *Bull. Soc. chim.*, (4), **17**, 268, 309 (1915).
 1590. REED R. M., TARTAR H. V., *J. Am. Chem. Soc.*, **58**, 322 (1936).
 1591. REEDY J. H., *J. Am. Chem. Soc.*, **43**, 1443 (1921).
 1592. REEVES L. W., HIELDEBRAND J. H., *J. Am. Chem. Soc.*, **79**, 1313 (1957).
 1593. REGNAULT, WILLEJEAN, *Chem. Zentralbl.*, **18**, 252 (1887).
 1594. RELFF F., TOUSSAINT S. M., *Z. anorg. Chem.*, **241**, 372 (1939).
 1595. REMY H., *Z. Elektrochem.*, **31**, 92 (1925).
 1596. REMY H., KUEHMANN A., *Z. anal. Chem.*, **65**, 161 (1924).
 1597. RENICH P. W., TAFT R., *Ind. Eng. Chem.*, **43**, 2376 (1951).
 1598. REINDERS W., *Z. physik. Chem.*, **32**, 514 (1900).

1599. REINDERS M., KLINGENBERG A., *Rec. trav. chim.*, **48**, 1227 (1929).
 1600. REINITZER D., *Z. angew. Chem.*, **26**, 456 (1913).
 1601. REISSIG, *Ann. Chem., Liebig's*, **127**, 33 (1863).
 1602. RETGERS J. W., *Z. anorg. Chem.*, **3**, 253, 344 (1893).
 1603. REX, *Z. physik. Chem.*, **55**, 355 (1906).
 1604. RHODE H., *Biochem. Z.*, **130**, 481 (1922).
 1605. RHODES F. H., EISENHAEUER F. S., *Ind. Eng. Chem.*, **19**, 414 (1927).
 1606. RHODES F. H., LEWIS A. W., *Ind. Eng. Chem.*, **20**, 1366 (1928).
 1607. RICCI J. E., *J. Am. Chem. Soc.*, **56**, 290 (1934).
 1608. RICCI J. E., DAVIS T. W., *J. Am. Chem. Soc.*, **62**, 407 (1940).
 1609. RICHARD F., *J. Pharm. Chim.*, (8), **4**, 306 (1926).
 1610. RICHARDS T. W., YUGVE V., *J. Am. Chem. Soc.*, **40**, 164 (1918).
 1611. RIDENOUR W. P., WEATHERFORD W. D., CAPELL R. G., *Ind. Eng. Chem.*, **46**, 2376 (1954).
 1612. RIEDEL, *Z. physik. Chem.*, **56**, 243 (1906).
 1613. DE RIGHT R. E., *J. Phys. Chem.*, **37**, 405 (1933).
 1614. RIMBACH E., *Ber.*, **30**, 3075 (1897).
 1615. RIMBACH E., *Ber.*, **35**, 1300 (1902).
 1616. RIMBACH E., *Ber.*, **37**, 463 (1904).
 1617. RIMBACH E., *Ber.*, **38**, 1553 (1905).
 1618. RIMBACH E., FLECK K., *Z. anorg. Chem.*, **94**, 139 (1916).
 1619. RIMBACH E., KORTEN F., *Z. anorg. Chem.*, **52**, 407 (1907).
 1620. RIMBACH E., SCHUBERT A., *Z. physik. Chem.*, **67**, 183 (1909).
 1621. RINKENBACH W. H., *Ind. Eng. Chem.*, **18**, 1195 (1926).
 1622. RIVETT A. C. D., *J. Chem. Soc.*, **129**, 1063 (1926).
 1623. RIVETT A. C. D., LEWIS N. B., *Rec. trav. chim.*, **42**, 954 (1923).
 1624. ROBERTS R. N., DINEGAR R. H., *J. Phys. Chem.*, **62**, 1009 (1958).
 1625. ROBERTSON P. W., *Chem. News*, **95**, 253 (1907).
 1626. ROBERTSON J. B., *S. Afric. J. Sci.*, **30**, 187 (1933).
 1627. ROBINSON F. W., *J. Chem. Soc.*, **95**, 1353 (1909).
 1628. ROBINSON H. E., ROCHE J. N., KING C. G., *J. Am. Chem. Soc.*, **54**, 705 (1932).
 1629. ROBINSON M. T., *J. Phys. Chem.*, **61**, 120 (1957).
 1630. ROBINSON R. F., *Bull. Oregon Agr. Col. Exp. St.*, **131**, 1 (1918).
 1631. RODEBUSH W. H., *J. Am. Chem. Soc.*, **40**, 1204 (1918).
 1632. ROEDERER E., *Z. anorg. Chem.*, **226**, 145 (1936).
 1633. ROGIER, FIORE, *Bull. Sci. Pharmacol.*, **20**, 7, 72 (1913).
 1634. ROGOWICZ, *Z. Ver. Zuckerind.*, 938 (1905).
 1635. ROHLAND P., *Z. anorg. Chem.*, **15**, 412 (1897).
 1636. ROHLAND P., *Z. anorg. Chem.*, **18**, 327 (1898).
 1637. ROHMER R., *Ann. Chim.*, (11), **11**, 611 (1939).
 1638. ROLLET A. P., *Compt. rend.*, **200**, 1763 (1935).
 1639. ROLLET A. P., ANDRES L., *Compt. rend.*, **191**, 375, 567 (1930).
 1640. ROLLET A. P., ANDRES L., *Bull. Soc. chim. (France)*, (4), **49**, 1065 (1931).
 1641. ROLLET A. P., LANFFENBURGER R., *Bull. Soc. chim. (France)*, (5), **1**, 146 (1934).
 1642. ROLLET A. P., PENG C. M., *Bull. Soc. chim. (France)*, (5), **2**, 982 (1935).
 1643. ROLLET A. P., WOHLGENUTH J., *Comp. rend.*, **198**, 1772 (1934).
 1644. ROLOFF M., *Z. physik. Chem.*, **17**, 325; **18**, 572 (1895).
 1645. ROOZEBOOM H. W. B., *Rec. trav. chim.*, **3**, 29, 59, 104 (1884).
 1646. ROOZEBOOM H. W. B., *Z. physik. Chem.*, **2**, 454 (1888).
 1647. ROOZEBOOM H. W. B., *Z. physik. Chem.*, **4**, 42 (1889).
 1648. ROOZEBOOM H. W. B., *Rec. trav. chim.*, **8**, 1 (1889).
 1649. ROOZEBOOM H. W. B., *Z. physik. Chem.*, **10**, 477 (1892).
 1650. ROSCOE, DITTMAR, *Ann. Chem. Liebig's*, **112**, 334 (1859).
 1651. RODESTWENSKY A., LEWIS W. C., *J. Chem. Soc.*, **101**, 2098 (1912).
 1652. ROSENBAUM C. K., WALTON J. H., *J. Am. Chem. Soc.*, **52**, 3568 (1930).

1653. ROSENBLADT, *Ber.*, **19**, 2531 (1886).
 1654. ROSENHEIM A., *Z. anorg. u. allgem. Chem.*, **96**, 143 (1916).
 1655. ROSENHEIM A., BERTHEIM A., *Z. anorg. Chem.*, **34**, 430 (1903).
 1656. ROSENHEIM A., GRÜNBAUM, *Z. anorg. Chem.*, **61**, 187 (1909).
 1657. ROSENHEIM A., KRAUSEL L., *Z. anorg. u. allgem. Chem.*, **118**, 182 (1921).
 1658. ROSENHEIM A., REGLIN W., *Z. anorg. u. allgem. Chem.*, **120**, 103, (1921).
 1659. ROSENHEIM A., WEINHEBER M., *Z. anorg. Chem.*, **69**, 263 (1910—1911).
 1660. ROSENHEIM A., WOLFF A., *Z. anorg. Chem.*, **193**, 56 (1930).
 1661. ROSENMUND K. W., ZETZSCHE F., *Ber.*, **51**, 598 (1918).
 1662. ROSENAL W., Thés. fac. sci. Univ. Strasb. contr. et. solub. gaz. dans solv. et solut. (1954).
 1663. ROSENTHIL, RUHEMANN, *Jahresber. Chem.*, 314 (1870).
 1664. ROSHDESTWENSKY A., LEWIS W. C., *J. Chem. Soc.*, **99**, 2144 (1911).
 1665. ROSS W. H., JONES R. M., *J. Am. Chem. Soc.*, **47**, 2165 (1925).
 1666. ROSSLER, *J. Prakt. Chem.*, (2), **7**, 14 (1873).
 1667. ROTARIN G. J., HANRAHAN R. J., FRUIN R. E., *J. Amer. Chem. Soc.*, **76**, 3752 (1954).
 1668. ROTH, *Z. physik. Chem.*, **24**, 123 (1897).
 1669. ROTH W. A., STOERMER, *Ber.*, **46**, 270 (1913).
 1670. ROTHMUND V., *Z. physik. Chem.*, **26**, 433, 475 (1898).
 1671. ROWLEY H. H., *J. Am. Chem. Soc.*, **58**, 1337 (1936).
 1672. RUDORFF, *Pogg. Ann.*, **145**, 608 (1872).
 1673. RUFF O., GEISEL E., *Ber.*, **39**, 838 (1906).
 1674. RUFF O., HECHT L., *Z. anorg. Chem.*, **70**, 61 (1911).
 1675. RUPERT F. F., *J. Am. Chem. Soc.*, **31**, 866 (1909).
 1676. RUPERT F. F., *J. Am. Chem. Soc.*, **32**, 748 (1910).
 1677. RUTLEDGE G. P., JARRY R. L., DAVIS W., *J. Phys. Chem.*, **57**, 541 (1953).
 1678. SACKUR O., FRITZMANN E., *Z. Elektrochem.*, **15**, 842 (1909).
 1679. SADDINGTON A. W., KRASE N. W., *J. Am. Chem. Soc.*, **56**, 353 (1934).
 1680. SADOLIN E., *Z. anorg. Chem.*, **160**, 133 (1927).
 1681. SAGE B. H., BACKUS H., LACEY W. N., *Ind. Eng. Chem.*, **27**, 686 (1935).
 1682. SAGE B. H., BUDENHOLZER R. A., LACEY W. N., *Ind. Eng. Chem.*, **32**, 1262 (1940).
 1683. SAGE B. H., DAVIS J. A., SHERBORNE J. E., LACEY W. N., *Ind. Eng. Chem.*, **28**, 1328 (1936).
 1684. SAGE B. H., LACEY W. N., *Ind. Eng. Chem.*, **28**, 106 (1936).
 1685. SAGE B. H., LACEY W. N., SCHAAFSMA J. G., *Ind. Eng. Chem.*, **26**, 874 (1934).
 1686. SAGE B. H., LAVENDER H. M., LACEY W. N., *Ind. Eng. Chem.*, **32**, 743 (1940).
 1687. SAGE B. H., WEBSTER D. C., LACEY W. N., *Ind. Eng. Chem.*, **28**, 1045 (1936).
 1688. SAILLARD E., *Chim. et Ind.*, **2**, 1035 (1919).
 1689. SALKOWER B., *Am. J. Pharm.*, **88**, 484 (1916).
 1690. SALKOWSKI H., *Ber.*, **34**, 1947 (1901).
 1691. SALVADORI, *Gazz. chim. ital.*, **42**, 1, 458 (1912).
 1692. SALZER, *Ann. Chem., Liebig's*, **187**, 331 (1877).
 1693. SALZER, *Ann. Chem., Liebig's*, **211**, 1 (1882).
 1694. SALZER, *Ann. Chem., Liebig's*, **232**, 114 (1886).
 1695. SAMESHIMA J., HIRAMATZU T., *Bull. Chem. Soc. (Japan)*, **9**, 260 (1934).
 1696. SAMMET V., *Z. physik. Chem.*, **53**, 644 (1905).
 1697. SANDER W., *Z. physik. Chem.*, **78**, 513 (1911—1912).
 1698. SANDQUIST H., *Ann. Chem., Liebig's*, **392**, 76 (1912).
 1699. SANDQUIST H., *Ark. kem. min. geol.*, **7**, No. 2 (1917).
 1700. SANFOURCHE A., GARDNET L., *Bull. Soc. chim.*, (4), **35**, 1088, (1924).
 1701. SANFOURCHE A., LIEBAUT A. M., *Bull. Soc. chim.*, (4), **31**, 966 (1922).
 1702. SAPHIR S., *Bull. Soc. chim. (Belg.)*, **38**, 392 (1929).
 1703. SARVER L. A., BRINTON H. M. P., *J. Am. Chem. Soc.*, **49**, 943 (1927).
 1704. SAUNDERS K. H., *J. Chem. Soc.*, **121**, 2667 (1922).

1705. SAVORRO E., *Atti. Accad. sci. (Torino)*, **48**, 948 (1914).
1706. SAYLOR J. H., BAXT V. J., GROSS P. M., *J. Am. Chem. Soc.*, **64**, 2742 (1942).
1707. SAYLOR J. H., STUCKEY J. M., GROSS P. M., *J. Am. Chem. Soc.*, **60**, 373 (1938).
1708. SBORGI U., FERRI L., *Mem. Accad. nazl. Lincei*, (5), **13**, 569 (1921).
1709. SCHAEFER G. L., *Am. J. Pharm.*, **82**, 175 (1910).
1710. SCHAEFER G. L., *Am. J. Pharm.*, **84**, 389, 754 (1912).
1711. SCHAEFER G. L., *Am. J. Pharm.*, **85**, 441 (1913).
1712. SCHÄFER H., *Z. anorg. Chem.*, **45**, 310 (1905).
1713. SCHEFLAN L., MCCROSKY C. R., *J. Am. Chem. Soc.*, **54**, 193 (1932).
1714. SCHEIBLER C., *J. Pharm. Chem.*, (5), **8**, 540 (1883).
1715. SCHERER P. C., *J. Am. Chem. Soc.*, **53**, 3694 (1931).
1716. SCHEUB W. H., MCCROSKY C. R., *J. Am. Chem. Soc.*, **66**, 841 (1944).
1717. SCHICK K., *Z. physik. Chem.*, **42**, 163 (1903).
1718. SCHIFF, *Ann. Chem., Liebig's*, **113**, 350 (1860).
1719. SCHILOW N., LEPIN, *Z. physik. Chem.*, **101**, 353 (1922).
1720. SCHIMMEL F., *Z. anorg. Chem.*, **176**, 285 (1928).
1721. SCHIMMEL F., *Ber.*, **62**, 963 (1929).
1722. SCHINDELMEISER, *Chem. Zig.*, **25**, 129 (1901).
1723. SCHLAMP A., *Z. physik. Chem.*, **14**, 272 (1894).
1724. SCHLAPFER P., FLACKS R., *Helv. chim. acta.*, **10**, 381 (1927).
1725. SCHLESINGER N., KUBASOWA W., *Z. physik. Chem.*, **142**, 25 (1929).
1726. SCHLOSSBERG J., *Ber.*, **33**, 1082 (1900).
1727. SCHMIDT J. M., *Ann. chim.*, (10), **11**, 351 (1929).
1728. SCHNELLBACH W., ROSIN J., *J. Am. Pharm. Ass.*, **18**, 762, 1230 (1929).
1729. SCHNELLBACH W., ROSIN J., *J. Am. Pharm. Ass.*, **20**, 227 (1931).
1730. SCHOCH E. P., HOFFMANN A. E., KASPERIK A. S., LIGHTFOOT J. H., MAYFIELD F. D., *Ind. Eng. Chem.*, **32**, 788 (1940).
1731. SCHOCH E. P., HOFFMANN A. E., MAYFIELD F. D., *Ind. Eng. Chem.*, **32**, 1351 (1940).
1732. SCHOCH E. P., HOFFMANN A. E., MAYFIELD F. D., *Ind. Eng. Chem.*, **33**, 688 (1941).
1733. SCHOLDER R., *Ber.*, **60**, 1523 (1927).
1734. SCHOLDER R., GADENNE E., NIEMANN H., *Ber.*, **60**, 1510 (1927).
1735. SCHOLL W., DAWIS R. O. E., *Ind. Eng. Chem.*, **26**, 1299 (1934).
1736. SCHOLL R., STEINKOPF, *Ber.*, **39**, 4393 (1906).
1737. SCHOLTZ M., *Ber.*, **34**, 1623 (1901).
1738. SCHOLTZ M., *Arch. Pharm.*, **250**, 418 (1912).
1739. SCHÖNFELD, *Ann. Chem., Liebig's*, **95**, 5 (1885).
1740. SCHOORE N., *Rec. trav. chim.*, **22**, 40 (1903).
1741. SCHOORE N., REGENBAGEN A., *Rec. trav. chim.*, **41**, 125 (1922).
1742. SCHOORE N., WEERD F. N. B., *Rec. trav. chim.*, **41**, 15 (1922).
1743. SCHREINEMAKERS F. A. H., *Z. physik. Chem.*, **29**, 584; **30**, 460 (1899).
1744. SCHREINEMAKERS F. A. H., *Z. physik. Chem.*, **33**, 79 (1900).
1745. SCHREINEMAKERS F. A. H., *Z. physik. Chem.*, **55**, 79 (1906).
1746. SCHREINEMAKERS F. A. H., *Z. physik. Chem.*, **69**, 557 (1910).
1747. SCHREINEMAKERS F. A. H., COCHERET D. H., FILIPPO H., DE WAAL A. J. C., *Z. physik. Chem.*, **59**, 645 (1907).
1748. SCHREINEMAKERS F. A. H., FILIPPO A., *Chem. Weekblad*, **3**, 157 (1906).
1749. SCHREINEMAKERS F. A. H., MEIJERINGH D. L., *Chem. Weekblad*, **5**, 811 (1908).
1750. SCHREINER L., SIEVERTS A., *Z. anorg. Chem.*, **224**, 167 (1935).
1751. SCHRÖDER, *Z. physik. Chem.*, **11**, 456 (1893).
1752. SCHRÖDER W., *Z. anorg. Chem.*, **185**, 153, 267 (1930).
1753. SCHRÖDER W., *Z. anorg. Chem.*, **228**, 129 (1936).
1754. SCHROEDER W. C., BERK A. A., GABRIEL A., *J. Am. Chem. Soc.*, **59**, 1783 (1937).
1755. SCHROEDER W. C., GABRIEL A., PATRIDGE E. P., *J. Am. Chem. Soc.*, **57**, 1539 (1935).
1756. SCHULER, *Sitzber. Akad. Wiss. (Wien)*, **79**, 302 (1879).
1757. SCHULZ F., *Coll. Czechoslov. Chem. Comm.*, **1**, 228 (1929).

1758. SCHULZE, *J. Prakt. Chem.*, (2), **24**, 168 (1881).
 1759. SCHULZE A., *Z. physik. Chem.*, **95**, 257 (1920).
 1760. SCHWARZ R., HUF E., *Z. anorg. Chem.*, **203**, 188 (1931).
 1761. SCHWARZE R., *Ber.*, **49**, 2359 (1916).
 1762. SCHWEITZER, *Z. anal. Chem.*, **29**, 414 (1890).
 1763. SCHWICKER, *Ber.*, **22**, 1731 (1889).
 1764. SCOTT A. F., DURHAM E. J., *J. Phys. Chem.*, **34**, 531 (1930).
 1765. SCOTT A. F., FRASIER W. R., *J. Phys. Chem.*, **31**, 459 (1927).
 1766. SCOTT R. L., *J. Am. Chem. Soc.*, **70**, 4090 (1948).
 1767. SECOY C. H., CADY G. H., *J. Am. Chem. Soc.*, **62**, 1036 (1940).
 1768. SEDIVEC V., FLEK J., *Chekhosl. khim. rabot*, **23**, 1977 (1958).
 1769. SEDLITZKI, *Monatsh. Chem.*, **8**, 563—573 (1887).
 1770. SEIDELL A., *J. Am. Chem. Soc.*, **29**, 1088 (1907).
 1771. SEIDELL A., *J. Am. Chem. J.*, **48**, 453 (1912).
 1772. SEIDELL A., *Solubility of Inorganic, Metalorganic and Organic Compounds*, 3 Ed., New York (1940).
 1773. SERULLAS, *Ann. chim. phys.*, **22**, 118 (1881).
 1774. SERWY H., *Bull. Soc. chim. (Belg.)*, **42**, 487 (1933).
 1775. SESTINI, *Gazz. chim. ital.*, **20**, 313 (1890).
 1776. SETTERBURG, *Ann. Chem., Liebig's*, **211**, 104 (1882).
 1777. SEUBERT, ELTEN, *Z. anorg. Chem.*, **2**, 434 (1892).
 1778. SEWARD R. P., *J. Am. Chem. Soc.*, **54**, 4598 (1932).
 1779. SEYER W. F., CORNETT W. F., *Ind. Eng. Chem.*, **29**, 91 (1937).
 1780. SEYER W. F., DUNBAR V., *Trans. Roy. Soc. (Canada)*, (3), **16**, 307 (1922).
 1781. SEYER W. F., GALLANGER A. F., *Trans. Roy. Soc. (Canada)*, (3), **20**, 343 (1926).
 1782. SEYER W. F., GILL A. F., *Trans. Roy. Soc. (Canada)*, (3), **18** (Sec. III), 209 (1924).
 1783. SEYER W. F., HIGGET J. L., *Trans. Roy. Soc. (Canada)*, (3), **18** (Sec. III), 213 (1924).
 1784. SEYER W. F., TODD E., *Trans. Roy. Soc. (Canada)*, **23** (Sec. III), 67 (1929).
 1785. SEYER W. F., TODD E., *Ind. Eng. Chem.*, **23**, 325 (1931).
 1786. SEYER W. F., JIP S., PYLE G., *J. Am. Chem. Soc.*, **72**, 3162 (1950).
 1787. SHEARMAN R. W., MENZIES W. C., *J. Am. Chem. Soc.*, **56**, 185 (1937).
 1788. SHEFT I., HYMAN H. H., KATZ J. J., *J. Am. Chem. Soc.*, **75**, 5221 (1953).
 1789. SHEPPARD S. E., HUDSON H., *J. Am. Chem. Soc.*, **49**, 1814 (1927).
 1790. SHERRILL M. S., *Z. physik. Chem.*, **43**, 705 (1903).
 1791. SHERWOOD T. K., *Ind. Eng. Chem.*, **17**, 745 (1925).
 1792. SHERWOOD W. J., *J. Am. Chem. Soc.*, **25**, 576 (1903).
 1793. SHIBATA F. L. E., *J. Sci. Hiroshima Univ. (A)*, **1**, 215 (1932).
 1794. SHIH B. C., PERATTI E. A., *J. Am. Chem. Soc.*, **75**, 608 (1953).
 1795. SHINODA K., HILDEBRAND J. H., *J. Phys. Chem.*, **62**, 292 (1958).
 1796. SHINODA K., HILDEBRAND J. H., *J. Phys. Chem.*, **61**, 789 (1957).
 1797. SHNIDMAN L., *J. Phys. Chem.*, **37**, 693 (1933).
 1798. SHNIDMAN L., *J. Phys. Chem.*, **38**, 901 (1934).
 1799. SHUCK G. R., LINGAFELTER E. C., *J. Am. Chem. Soc.*, **71**, 1325 (1949).
 1800. SHIOMI T., *Mem. Coll. Sci. Eng. (Kyoto)*, **1**, 406 (1908).
 1801. SIDGWICK N. N., *Proc. Chem. Soc.*, **26**, 60 (1910).
 1802. SIDGWICK N. V., *J. Chem. Soc.*, **107**, 672 (1915).
 1803. SIDGWICK N. V., ALDOUS W. M., *J. Chem. Soc.*, **119**, 1001 (1921).
 1804. SIDGWICK N. V., ALLOTT E. N., *J. Chem. Soc.*, **123**, 2819 (1923).
 1805. SIDGWICK N. V., CALLOW R. K., *J. Chem. Soc.*, **125**, 522 (1924).
 1806. SIDGWICK N. V., CLAYTON H., *J. Chem. Soc.*, **121**, 2263 (1922).
 1807. SIDGWICK N. V., DASH W. M., *J. Chem. Soc.*, **121**, 2586 (1922).
 1808. SIDGWICK N. V., EWBank E. K., *J. Chem. Soc.*, **119**, 486 (1921).
 1809. SIDGWICK N. V., EWBank E. K., *J. Chem. Soc.*, **119**, 979 (1921).
 1810. SIDGWICK N. V., EWBank E. K., *J. Chem. Soc.*, **121**, 1844 (1922).
 1811. SIDGWICK N. V., GENTLE J. A., *J. Chem. Soc.*, **121**, 1837 (1922).

1812. SIDGWICK N. V., LEWIS N. B., *J. Chem. Soc.*, **129**, 1287 (1926).
 1813. SIDGWICK N. V., NEILL J. A., *J. Chem. Soc.*, **123**, 2913 (1923).
 1814. SIDGWICK N. V., PICKFORD P., WILSON B. H., *J. Chem. Soc.*, **99**, 1122 (1911).
 1815. SIDGWICK N. V., RUBIE H. E., *J. Chem. Soc.*, **119**, 1013 (1921).
 1816. SIDGWICK N. V., SPURRELL W. J., DAVIES T. E., *J. Chem. Soc.*, **107**, 1202 (1915).
 1817. SIDGWICK N. V., SUTTON L. E., *J. Chem. Soc.*, 1323 (1930).
 1818. SIDGWICK N. V., SUTTON L. E., *J. Chem. Soc.*, 1461 (1930).
 1819. SIDGWICK N. V., TAYLOR T. W. J., *J. Chem. Soc.*, **121**, 1853 (1922).
 1820. SIDGWICK N. V., TURNER J. L., *J. Chem. Soc.*, 2256 (1922).
 1821. SIEGER W., *Tabell. Annuel*, **3**, 337 (1912).
 1822. SIEVERTS A., PETZOLD W., *Z. anorg. Chem.*, **205**, 113 (1932).
 1823. SIEVERTS A., PETZOLD W., *Z. anorg. Chem.*, **212**, 49, 233 (1933).
 1824. SIEVERTS A., SCHREINER L., *Z. anorg. Chem.*, **219**, 105 (1934).
 1825. SILL H. F., *Z. physik. Chem.*, **51**, 577 (1905).
 1826. SIMMONS J. P., FREIMUTH H., RUSSELL H., *J. Am. Chem. Soc.*, **58**, 1692 (1936).
 1827. SIMMONS J. P., ROPP C. D. L., *J. Am. Chem. Soc.*, **50**, 1650 (1928).
 1828. SIMMONS J. P., WALDECK W. F., *J. Am. Chem. Soc.*, **53**, 1725 (1931).
 1829. SIMONS J. H., *J. Am. Chem. Soc.*, **53**, 83 (1931).
 1830. SIMONS J. H., LINEVSKY M. J., *J. Am. Chem. Soc.*, **74**, 4750 (1952).
 1831. SIMS, *Ann. Chem., Liebig's*, **118**, 340 (1861).
 1832. SISLER H. H., CORY J. C., *J. Am. Chem. Soc.*, **69**, 1515 (1947).
 1833. SISLER H. H., DAVIDSON A. W., STOENNER R., LYON L. L., *J. Am. Chem. Soc.*, **66**, 1888 (1944).
 1834. SISLER H. H., WERF C. A., VAN DER, STEPHAVOV S., *J. Am. Chem. Soc.*, **68**, 2538 (1946).
 1835. SISLEY P., *Bull. Soc. chim. (France)*, (3), **27**, 905 (1902).
 1836. SKINNER D. A., *Ind. Eng. Chem.*, **47**, 222 (1955).
 1837. SKIROW F. W., *Z. physik. Chem.*, **41**, 144 (1902).
 1838. SKOSSAREWSKY M., TCHITCHINADZE N., *J. Chim. Phys.*, **14**, 153 (1916).
 1839. SKRABAL A., *Monatsh. Chem.*, **38**, 25 (1917).
 1840. SLOAN, MALLET, *Chem. News*, **46**, 194 (1882).
 1841. SLOTHOUWER J. H., *Rec. trav. chim.*, **33**, 327 (1914).
 1842. SMITH, BRADBURY, *Ber.*, **24**, 2930 (1891).
 1843. SMITH A., EASTLACK H. E., *J. Am. Chem. Soc.*, **38**, 1265, 1500 (1916).
 1844. SMITH A., HOLMES W. B., HALL E. S., *J. Am. Chem. Soc.*, **27**, 805 (1905).
 1845. SMITH A., MENZIES A. W. C., *J. Am. Chem. Soc.*, **31**, 1183 (1909).
 1846. SMITH E. L., *J. Phys. Chem.*, **36**, 1401 (1932).
 1847. SMITH E. L., *J. Phys. Chem.*, **36**, 1672 (1932).
 1848. SMITH G. F., *J. Am. Chem. Soc.*, **47**, 762 (1925).
 1849. SMITH G. F., RING F., *J. Am. Chem. Soc.*, **56**, 1889 (1937).
 1850. SMITH T. L., *J. Phys. Chem.*, **59**, 188 (1955).
 1851. SMITH W. T., PARKHURST R. B., *J. Am. Chem. Soc.*, **44**, 1918 (1922).
 1852. SMITS A., *Z. Elektrochem.*, **9**, 633 (1903).
 1853. SMITS A., BERCKMANS V. S. F., *Verslag Akad. Wet. (Amsterdam)*, **27**, 143 (1918).
 1854. SMITS A., KETTER A., *Proc. konigl. Akad. Wet. (Amsterdam)*, **15**, 685 (1912).
 1855. SMITS A., MAZEL W. M., *Z. physik. Chem.*, **135**, 73 (1928).
 1856. SMYTH C. P., LEWIS G. L., *J. Am. Chem. Soc.*, **62**, 949 (1940).
 1857. SOBOTKA H., KAHN J., *J. Am. Chem. Soc.*, **53**, 2935 (1931).
 1858. SPEDDING F. H., JAFFE S., *J. Am. Chem. Soc.*, **76**, 882 (1954).
 1859. SPENCER J. F., *Z. physik. Chem.*, **80**, 701 (1912).
 1860. SPENCER J. F., *Z. physik. Chem.*, **83**, 293 (1913).
 1861. SPENCER, LEPLA, *Z. anorg. Chem.*, **65**, 14 (1909).
 1862. SPEYERS C. L., *Am. J. Sci.*, (4), **14**, 294 (1902).
 1863. SPICER W. M., BARRICK C. J., *J. Am. Chem. Soc.*, **75**, 2268 (1953).
 1864. SPIELREIN C., *Compt. rend.*, **157**, 46 (1913).

1865. SPINOGLINO P., PAVENNA, *Gazz. chim. ital.*, **65**, 668 (1935).
 1866. SPÖRRY E., *Tabell. Annuel.*, **5**, 886 (1926).
 1867. SPRING, ROMANOFF, *Z. anorg. Chem.*, **13**, 34 (1896).
 1868. SQUIRE P. W., CAINES C. M., *Pharm. J.*, **74**, 720, 784 (1905).
 1869. STADT E. VAN DER, *Z. physik. Chem.*, **41**, 353 (1902).
 1870. STACKELBERG M., *Z. physik. Chem.*, **170A**, 262 (1934).
 1871. STACKELBERG M., QUANTRAM F., *Z. Elektrochem.*, **43**, 21 (1937).
 1872. STANBRIDGE F., *J. Chem. Soc.*, **113**, 808 (1918).
 1873. STANLEY H., *Chem. News*, **89**, 193 (1904).
 1874. STARK C. R., DEHN W. M., *J. Am. Chem. Soc.*, **40**, 1573 (1918).
 1875. STARK G., *Z. anorg. Chem.*, **70**, 174 (1911).
 1876. STARONKA W., *Anzeiger Akad. Wiss. Krakau, Ser. A*, 372 (1910).
 1877. STAVELEY L. A. K., JOHNS R. G. S., MOORE B. C., *J. Chem. Soc.* 2516 (1951).
 1878. STAVELEY L. A. K., MILWARD G. L., *J. Chem. Soc.*, 4369 (1957).
 1879. STEELE, JOHNSON, *J. Chem. Soc.*, **85**, 116 (1904).
 1880. STERN O., *Z. physik. Chem.*, **81**, 468 (1912—1913).
 1881. STIASSNY, *Monatsh. Chem.*, **12**, 596 (1891).
 1882. STICH C., *Pharm. Z.*, **48**, 343 (1903).
 1883. STOCK A., *Ber.*, **43**, 156, 1227 (1910).
 1884. STOCK A., *Z. anorg. Chem.*, **217**, 241 (1934).
 1885. STOCK A., KUSS E., *Ber.*, **50**, 159 (1917).
 1886. STOERMER R., HEYMANN P., *Ber.*, **45**, 2248 (1913).
 1887. STOLBA, *Z. prakt. Chem.*, **101**, 1 (1867).
 1888. STOLBA, *Chem. Tech. Centr. Anz.*, **7**, 459 (1889).
 1889. STOLTZENBERG H., *Ber.*, **45**, 2248 (1912).
 1890. STONE H. W., *Ind. Eng. Chem.*, **35**, 1284 (1943).
 1891. STORTENBECKER W., *Rec. trav. chim.*, **26**, 245 (1907).
 1892. STRÄULI L., *Tabell. Annuel.*, **5**, 932 (1926).
 1893. STRAUS F., HEYN W., SCHWERMER E., *Ber.*, **63**, 1086 (1930).
 1894. STRÖMHOLM D., *Ber.*, **33**, 835 (1900).
 1895. STRÖMHOLM D., *Z. physik. Chem.*, **44**, 721 (1903).
 1896. STRUVE, *Z. prakt. Chem.*, **61**, 457 (1899).
 1897. STUCKGOLD M., *J. Chim. Phys.*, **15**, 502 (1917).
 1898. SUDHAUS K., *Neues Jahrb. Min. Geol.*, **37**, 1 (1914).
 1899. SUGDEN R., *J. Chem. Soc.*, 488 (1929).
 1900. SULC, *Z. anorg. Chem.*, **25**, 401 (1900).
 1901. SUNIER A. A., *J. Phys. Chem.*, **34**, 2582 (1930).
 1902. SUNIER A. A., *J. Phys. Chem.*, **35**, 1756 (1931).
 1903. SUNIER A. A., HESS C. B., *J. Am. Chem. Soc.*, **50**, 662 (1928).
 1904. SUNIER A. A., ROSENBAUM C., *J. Phys. Chem.*, **32**, 1049 (1928).
 1905. SUYVER J. F., *Rec. trav. chim.*, **24**, 381, 397 (1905).
 1906. VIRBELY W. J., SELIS S. M., *J. Am. Chem. Soc.*, **75**, 1532 (1953).
 1907. SWEENER A., *Naturw. Tijdschr.*, **14**, 231 (1932).
 1908. SWERINGEN L. E., ROSS R. F., *J. Phys. Chem.*, **38**, 1085 (1934).
 1909. SWERN D., *J. Am. Chem. Soc.*, **71**, 3256 (1949).
 1910. SWINNE R., *Z. physik. Chem.*, **84**, 348 (1913).
 1911. SZATHMARY, SZACHINAR, *Z. Farb. Ind.*, **7**, 215 (1910).
 1912. SZELENYI G., *Magy. Chem. Foly.*, **35**, 58 (1929).
 1913. SZYSZKOWSKI B., *Mededel kongl. Wetenshap Nobel Inst.*, **3**, 10 (1914—1915).
 1914. DE SZYSZKOWSKI B., *Z. physik. Chem.*, **131**, 175 (1928).
 1915. TAKAHASHI G., *Bull. Imp. Lab. (Tokyo)*, **29**, 165 (1927).
 1916. TAKAYAMA Y., *J. Soc. Chem. Ind. (Japan)*, **33**, 302 (1930).
 1917. TAMBURRINI V., *Ann. chim. appl.*, **17**, 275 (1927).
 1918. TAMM O., *Z. physik. Chem.*, **74**, 499 (1910).

1919. TAMMAN G., KOLLMANN K., HINNÜBER, *Z. anorg. Chem.*, **160**, 242 (1927).
1920. TAN W., KRIEGER K. A., MILLER J. G., *J. Am. Chem. Soc.*, **74**, 6181 (1952).
1921. TANAKA H., *J. Soc. Chem. Ind. (Japan)*, *Suppl.*, **33**, 488B (1930).
1922. TARBUTTON G., EGAN E. P., FRARY S. G., *J. Am. Chem. Soc.*, **61**, 2555 (1939).
1923. TARTAR H. V., WRIGHT K. A., *J. Am. Chem. Soc.*, **61**, 539 (1939).
1924. TARUGI N., *Gazz. chim. ital.*, **34**, 329 (1904).
1925. TARUGI N., CHECCHI Q., *Gazz. chim. ital.*, **31**, 439 445 (1901).
1926. TAYLOR F. O., BEBIE J., *Am. J. Pharm.*, **96**, 597 (1924).
1927. TAYLOR H. S., COLLY E. R., EYRING H., *J. Am. Chem. Soc.*, **55**, 4334 (1933).
1928. TAYLOR H. S., HENDERSON W. N., *J. Am. Chem. Soc.*, **37**, 1692 (1915).
1929. TAYLOR H. W., HILDEBRAND J. H., *J. Am. Chem. Soc.*, **45**, 682 (1923).
1930. TAYLOR C. A., RINKENBACH W. H., *J. Am. Chem. Soc.*, **45**, 104, 1218 (1923).
1931. TAYLOR C. A., RINKENBACH W. H., *J. Am. Chem. Soc.*, **48**, 1308 (1926).
1932. TAYLOR D., VINCENT G. C., *J. Chem. Soc.*, 3218 (1952).
1933. TAYLOR M., *J. Chem. Soc.*, 1678 (1947).
1934. TCHERNIAC J., *J. Chem. Soc.*, **109**, 1239 (1916).
1935. TEMPLETON C. C., HALL N. F., *J. Phys. Colloid Chem.*, **51**, 1441 (1947).
1936. TERRES E., BRÜCKNER K., *Z. Elektrochem.*, **26**, 1 (1920).
1937. TERRES E., RÜHL G., *Angew. Chem.*, **47**, 20, 331 (1934).
1938. TERREY H., JOLLY V. G., *J. Chem. Soc.*, **123**, 2217 (1923).
1939. THAN, *Ann. Chem., Liebig's*, **123**, 187 (1862).
1940. THOMAS A. W., MATTIKOW M., *J. Am. Chem. Soc.*, **48**, 968 (1926).
1941. THOMPSON H. E., *J. Phys. Chem.*, **39**, 655 (1935).
1942. THOMPSON T. G., BLACK J. H., *Ind. Eng. Chem.*, **12**, 1066 (1920).
1943. THOMPSON T. G., BLACK J. H., *J. Am. Chem. Soc.*, **43**, 877 (1921).
1944. THOMPSON T. G., ODEEN H., *Ind. Eng. Chem.*, **12**, 1057 (1920).
1945. THORP N., SCOTT R. L., *J. Phys. Chem.*, **60**, 1441 (1956).
1946. THIEL A., SCHULTE E., *Z. physik. Chem.*, **96**, 312 (1920).
1947. TILDEN, SHEUSTON, *Phil. Trans.*, 23 (1884).
1948. TIMMERMANS J., *Bull. Soc. chim. (Belg.)*, **26**, 382 (1912).
1949. TIMMERMANS J., *Arch. néerland Sci.*, (3), **A6**, 147 (1922).
1950. TIMMERMANS J., DUMONT M., *Bull. Soc. chim. (Belg.)*, **40**, 689 (1931).
1951. TIMMERMANS J., HEUSE M. J., *Bull. Soc. chim. (Belg.)*, **40**, 105 (1931).
1952. TIMMERMANS J., MOTIUK K., *Bull. Soc. chim. (Belg.)*, **41**, 399 (1932).
1953. TIMMERMANS J., VESSELOVSKY, *Bull. Soc. chim. (Belg.)*, **41**, 53 (1932).
1954. TIOLLAIS R., *Bull. Soc. chim. (France)*, (5), **3**, 70 (1936).
1955. TIOLLAIS R., *Bull. Soc. chim. (France)*, (5), **6**, 631 (1936).
1956. TIOLLAIS R., PERDREAU H., *Bull. Soc. chim. (France)*, (5), **6**, 631 (1939).
1957. TITHERLY A. W., *Pharm. J.*, **88**, 94 (1912).
1958. TOBLER, *Ann. Chem., Liebig's*, **95**, 193 (1855).
1959. TOLLERT H., *Z. anorg. Chem.*, **204**, 142 (1932).
1960. TOMICEK O., KUBIK J., *Coll. Czechoslov. Chem. Comm.*, **9**, 525 (1937).
1961. TOMUŁA E. S., *Z. anorg. Chem.*, **118**, 88 (1921).
1962. TOURNEUX C., *Ann. chim.*, (9), **11**, 225 (1919).
1963. TOURNEUX C., PERNOT M., *Compt. rend.*, **180**, 740 (1925).
1964. TRAUBE, *Ber.*, **17**, 2304 (1884).
1965. TRAUTZ, ANSCHUTZ, *Z. physik. Chem.*, **56**, 238 (1906).
1966. TRAVERS A., MALAPRADE, *Bull. Soc. chim.*, (4), **39**, 1543 (1926).
1967. TRAVERS A., NOUVEL, *Compt. rend.*, **188**, 499 (1929).
1968. TS'AI L. S., YEN W. H., *J. Chinese Chem. Soc.*, **4**, 178 (1936).
1969. TURNER W. E. S., BISSETT C. C., *J. Chem. Soc.*, **103**, 1904 (1913).
1970. TUTTON A. E. H., *J. Chem. Soc.*, **71**, 850 (1897).
1971. TUTTON A. E. H., *Proc. Roy. Soc.*, **79** (A), 351 (1907).
1972. TYRER D., *J. Chem. Soc.*, **71**, 850 (1897).
1973. TYRER D., *J. Chem. Soc.*, **97**, 1778 (1910).

1974. UEDA V., *Sci. Reports Tohoku Univ.*, (1), **22**, 472 (1933).
1975. UPFON F. W., FLUEVOG E. A., ALBERT W. D., *J. Phys. Chem.*, **39**, 1079 (1936).
1976. URBANSKI T., KWIATKOWSKI B., *Rocz. Chem.*, **13**, 585 (1933).
1977. URBANSKI T., KWIATKOWSKI B., *Rocz. Chem.*, **13**, 740 (1933).
1978. *U. S. Pharmacopia*, 8. Ed. (1907).
1979. UTZ F., *Süddeutsche Apoth. Ztg.*, **59**, 832 (1919).
1980. UTZ F., *Süddeutsche Apoth. Ztg.*, **60**, 430 (1920).
1981. VALENTINER S., *Ber. phys. Ges.*, **3**, 62 (1922).
1982. VALEUR A., *Bull. Soc. chim. (France)*, (4), **21**, 203 (1917).
1983. VALLANCE R. H., *J. Chem. Soc.*, **130**, 1328 (1927).
1984. VALLANCE R. H., *J. Chem. Soc.*, 1421 (1931).
1985. VAUBEL, *J. Prakt. Chem.*, (2), **52**, 72 (1895).
1986. VENEBLE C. S., FUWA T., *Ind. Eng. Chem.*, **14**, 139 (1922).
1987. VERKADE P. E., *Proc. Acad. Sci. (Amsterdam)*, **23**, 783 (1921).
1988. VERKADE P. E., *Rec. trav. chim.*, **43**, 879 (1924).
1989. VERKADE P. E., COOPS J., *Rec. trav. chim.*, **49**, 568, 578 (1930).
1990. VERSTRAETE E. O. K., *Bull. Soc. chim. (Belg.)*, **43**, 513 (1934).
1991. VERMILLION H. E., WERBEL B., SAYLOR J. H., GROSS P. M., *J. Am. Chem. Soc.*, **63**, 1346 (1941).
1992. VERNON A. A., WALCK R. E., *J. Am. Chem. Soc.*, **73**, 5915 (1951).
1993. VESTERBERG K. A., *Ark. kemi. Min. Geol.*, **6**, No. 11 (1917).
1994. VEZES M., MOULINE M., *Bull. Soc. chim. (France)*, (3), **31**, 1043 (1904).
1995. VIALA F., *Bull. Soc. chim. (France)*, (4), **15**, 5 (1914).
1996. VISEUR G., *Bull. Soc. chim. (Belg.)*, **35**, 426 (1926).
1997. DE VISSER L. E. O., *Rec. trav. chim.*, **17**, 182, 346 (1898).
1998. VOERMAN G. L., *Chem. Weekblad*, **3**, 784, 806 (1906).
1999. VOGEL F., *Z. anorg. Chem.*, **35**, 389 (1903).
2000. VOLD R. D., MCBAIN J. W., *J. Am. Chem. Soc.*, **63**, 1293 (1941).
2001. VOOGD N. H., *Rec. trav. chim.*, **52**, 768 (1933).
2002. VREELAND J., DUNLAP R., *J. phys. Chem.*, **61**, 329 (1957).
2003. VRIES T., VANDERKOOL W. N., *J. Am. Chem. Soc.*, **75**, 2253 (1953).
2004. VULPIUS, *Pharm. Centralh.*, **34**, 117 (1893).
2005. WADSWORTH R. V., *Analyst*, **45**, 133 (1920).
2006. WADSWORTH A. E., DAWSON H. M., *J. Chem. Soc.*, **129**, 2784 (1926).
2007. WAENTIG P., PESCHECK G., *Z. physik. Chem.*, **93**, 529 (1919).
2008. WAGNER K. L., ZERNER E., *Monatsh. Chem.*, **31**, 833 (1911).
2009. WALDECK W. F., LYNN G., HILL A. E., *J. Am. Chem. Soc.*, **56**, 43 (1934).
2010. WALDEN P. T., *Z. physik. Chem.*, **55**, 698 (1906).
2011. WALDEN P. T., *Z. physik. Chem.*, **55**, 712 (1906).
2012. WALDEN P. T., CENTNERSZWER M., *Z. physik. Chem.*, **42**, 432 (1902—1903).
2013. WALKER W. H., COLLETT A. R., LAZZELL C. L., *J. Phys. Chem.*, **35**, 3259 (1931).
2014. WALKER J., FYFFE W. A., *J. Chem. Soc.*, **83**, 179 (1903).
2015. WALKER J., WOOD J. K., *J. Chem. Soc.*, **73**, 620 (1898).
2016. WALKER G., ADLER M., REIMER G., *Monatsh. Chem.*, **65**, 59 (1934).
2017. WALTON J. H., FINZEL T. G., *J. Am. Chem. Soc.*, **50**, 1508 (1928).
2018. WALTON J. H., JUDD R. C., *J. Am. Chem. Soc.*, **33**, 1036 (1911).
2019. WALTON J. H., WHITFORD E. L., *J. Am. Chem. Soc.*, **45**, 601 (1923).
2020. WALTON J. H., WILSON R. V., *J. Am. Chem. Soc.*, **47**, 320 (1925).
2021. WALTON J. H., WISE C. R., *J. Am. Chem. Soc.*, **44**, 103 (1922).
2022. WALTON R. T., *Proc. Soc. Exp. Biol. Med.*, **32**, 1488 (1935).
2023. WAN S. W., DODGE B. F., *Ind. Eng. Chem.*, **32**, 95 (1940).
2024. WARD H. L., *J. Phys. Chem.*, **30**, 1316 (1926).

2025. WARD H. L., COOPER S. S., *J. Phys. Chem.*, **34**, 1484 (1930).
2026. WARNER J. C., SCHIEB R. C., SVIRBLEY W. J., *J. Chem. Phys.*, **2**, 590 (1934).
2027. WARREN L. E., *J. Assoc. off. Agr. Chem.*, **16**, 571 (1933).
2028. WARTENBERG, PODJASKI, *Z. anorg. Chem.*, **148**, 391 (1925).
2029. WASSERMAN A., *Z. physik. Chem.*, **146**, 418 (1930).
2030. WATT G. W., FERNELIUS W. C., *Z. anorg. Chem.*, **221**, 187 (1935).
2031. WEBER P., DUNLAP H. L., *Ind. Eng. Chem.*, **20**, 383 (1928).
2032. WEICHERTZ J., MARSCHIK H., *Biochem. Z.*, **249**, 312 (1932).
2033. WEIGEL O., *Z. physik. Chem.*, **58**, 293 (1907).
2034. WEINLAND R. F., HEMZLER J., *Ber.*, **53**, 1367 (1920).
2035. WEISBERG, *Bull. Soc. chim.*, (3), **15**, 1097 (1896).
2036. WEISS J. M., DOWNS C. R., *J. Am. Chem. Soc.*, **45**, 1005, 2348 (1923).
2037. WEISSENBERGER G., *Z. angew. Chem.*, **40**, 776 (1927).
2038. WEISZ, OPALSKI, *Z. angew. Chem.*, **35**, 253 (1922).
2039. WEITZ E., *Ann.*, **410**, 119 (1914).
2040. WELLS H. L., *Am. J. Sci.*, (3), **44**, 221 (1892).
2041. WELLS H. L., WHEELER H. L., *Am. J. Sci.*, (3) **43**, 475 (1892).
2042. WELLS R. C., *J. Wash. Acad. Sci.*, **5**, 617 (1915).
2043. WELLS R. C., MACADAM D. J., *J. Am. Chem. Soc.*, **29**, 721 (1907).
2044. WELSH T. W. B., BRODERSON H. J., *J. Am. Chem. Soc.*, **37**, 816 (1915).
2045. WEMPE G., *Z. anorg. Chem.*, **78**, 298 (1912).
2046. WENDLANDT W. W., BRYANT J. M., *J. Phys. Chem.*, **60**, 1145 (1956).
2047. WENDOLKOWSKI W. S., BARBER E. J., *J. Phys. Chem.*, **62**, 750 (1958).
2048. WENGER P., *Tabell. Annuel.*, **2**, 411 (1911).
2049. WERF VAN DER C. A., DAVIDSON A. W., MICHAELIS C. J., *J. Am. Chem. Soc.*, **70**, 908 (1948).
2050. WERNER E. A., *J. Chem. Soc.*, **101**, 2169 (1912).
2051. WESTER D. H., *Pharm. Weekblad*, **51**, 1443 (1914).
2052. WHANGER J. G., SISLER H. H., *J. Am. Chem. Soc.*, **75**, 5188 (1953).
2053. WHEAT J. A., BROWNE A. W., *J. Am. Chem. Soc.*, **58**, 2410 (1938).
2054. WHEAT J. A., BROWNE A. W., *J. Am. Chem. Soc.*, **62**, 1575 (1940).
2055. WHEELER A. S., *J. Am. Chem. Soc.*, **42**, 1842 (1920).
2056. WHEELER C. M., KEATING H. P., *J. Phys. Chem.*, **58**, 1171 (1954).
2057. WHEELER H. L., *Am. J. Sci.*, (3), **44**, 123 (1892).
2058. WHERRY E. T., YANOVSKY E., *J. Am. Chem. Soc.*, **40**, 1072 (1918).
2059. WHITBY G. S., *Z. anorg. Chem.*, **67**, 107 (1910).
2060. WHITBY G. S., *J. Chem. Soc.*, **129**, 1458 (1926).
2061. WHITNEY R. P., VIVIAN J. E., *Ind. Eng. Chem.*, **33**, 741 (1941).
2062. WIEBE R., GADDY V. L., *J. Am. Chem. Soc.*, **56**, 76 (1934).
2063. WIEBE R., GADDY V. L., *J. Am. Chem. Soc.*, **57**, 847, 1487 (1935).
2064. WIEBE R., GADDY V. L., *J. Am. Chem. Soc.*, **59**, 1984 (1937).
2065. WIEBE R., GADDY V. L., *J. Am. Chem. Soc.*, **61**, 315 (1939).
2066. WIEBE R., GADDY V. L., *J. Am. Chem. Soc.*, **62**, 815 (1940).
2067. WIEBE R., GADDY V. L., HEINS C., *Ind. Eng. Chem.*, **24**, 823 (1932).
2068. WIEBE R., GADDY V. L., HEINS C., *Ind. Eng. Chem.*, **24**, 927 (1932).
2069. WIEBE R., TREMEARNE T. H., *J. Am. Chem. Soc.*, **56**, 2357 (1934).
2070. WIETH, *Phys. Z.*, **30**, 126 (1929).
2071. WILCOX K. W., BAILEY C. R., *J. Chem. Soc.*, **130**, 150 (1927).
2072. WILCOX K. W., BAILEY C. R., *J. phys. Chem.*, **33**, 705 (1929).
2073. WILEY R. H., SMITH N. R., *J. Am. Chem. Soc.*, **73**, 1383 (1951).
2074. WILKE-DÖRFURT E., GUNDZERT T., *Z. anorg. Chem.*, **215**, 369 (1933).
2075. WILKE-DÖRFURT E., MÜRECK H. G., *Z. anorg. Chem.*, **184**, 121 (1929).
2076. WILKE-DÖRFURT E., NIEDERER K., *Z. anorg. Chem.*, **184**, 145 (1929).
2077. WILKE-DÖRFURT E., SCHLIEPHAKE O., *Z. anorg. Chem.*, **170**, 129 (1928).
2078. WILKE-DÖRFURT E., SCHLIEPHAKE O., *Z. anorg. Chem.*, **183**, 301 (1929).

2079. WILLARD H. H., SMITH G. F., *J. Am. Chem. Soc.*, **44**, 2816 (1922).
 2080. WILLARD H. H., SMITH G. F., *J. Am. Chem. Soc.*, **45**, 286 (1923).
 2081. WILLIAMS M. D., FOGG H. G., JAMES C., *J. Am. Chem. Soc.*, **47**, 297 (1925).
 2082. WILSMORE, *Z. physik. Chem.*, **35**, 305 (1900).
 2083. WILSON D. C., *Pharm. J.*, **110**, 363 (1923).
 2084. WING H. J., *J. Am. Chem. Soc.*, **49**, 2859 (1927).
 2085. WING J., JOHNSTON W. H., *J. Am. Chem. Soc.*, **79**, 864 (1957).
 2086. WING H. J., THOMPSON T. J., *J. Am. Chem. Soc.*, **48**, 104 (1926).
 2087. WINKLER L. W., *J. Pract. Chem.*, (2), **31**, 347 (1885).
 2088. WINKLER L. W., *J. Pract. Chem.*, (2), **34**, 177 (1887).
 2089. WINKLER L. W., *Ber.*, **14**, 3606 (1891).
 2090. WINKLER L. W., *Chem. Ztg.*, **23**, 687 (1899).
 2091. WINKLER L. W., *Ber.*, **34**, 1409 (1901).
 2092. WINKLER L. W., *Z. physik. Chem.*, **55**, 350 (1906).
 2093. WINKLER L. W., in: LANDOLT a. BÖRNSTEIN. *Tabellen*. 4 Ed., 597 (1912).
 2094. WINTERSTEIN E., *Arch. exp. path. Pharmacol.*, **62**, 14 (1909).
 2095. WINTERSTEIN E., KELLER J., WEINHAGEN A. B., *Arch. Pharm.*, **255**, 513 (1917).
 2096. WIRTH F., *Z. anorg. Chem.*, **76**, 174 (1912).
 2097. WIRTH F., *Z. anorg. Chem.*, **87**, 1 (1914).
 2098. WIRTH F., BAKKE B., *Z. anorg. Chem.*, **87**, 29 (1914).
 2099. WISE C. R., *J. Am. Chem. Soc.*, **45**, 1233 (1923).
 2100. WISE W. S., NICHOLSON E. R., *J. Chem. Soc.*, 2714 (1955).
 2101. WITT O. N., *Ber.*, **48**, 767 (1915).
 2102. WOHLGEMUTH J., *Compt. rend.*, **199**, 601 (1934).
 2103. WOLF, *Z. anorg. Chem.*, **45**, 102 (1905).
 2104. WOOD C. B., *J. Am. Water Works Assoc.*, **22**, 1266 (1930).
 2105. WOOD J. K., *J. Chem. Soc.*, **93**, 412 (1908).
 2106. WOOD J. K., SCOTT J. D., *J. Chem. Soc.*, **97**, 1573 (1910).
 2107. WORTHINGTON K. K., HARING M. M., *Ind. Eng. Chem. (Anal. Ed.)*, **3**, 7 (1931).
 2108. WRIGHT R., *J. Chem. Soc.*, **130**, 1334 (1937).
 2109. WRIGHT R. H., MAAS O., *Canad. J. Res.*, **6**, 94 (1932).
 2110. WRIGHT C. P., MURRAY-RUST D. M., HARTLEY H., *J. Chem. Soc.*, 199 (1931).
 2111. WROBLEWSKI, *Compt. rend.*, **94**, 1335 (1882).
 2112. WROCZYNSKI A., GUYE P. A., *J. Chem. Phys.*, **8**, 197 (1910).
 2113. WROTH B. B., REID E. E., *J. Am. Chem. Soc.*, **38**, 2322 (1916).
 2114. WUIE J. P., *Z. physik. Chem.*, **86**, 349 (1913—1914).
 2115. WYATT W. F., *Trans. Faraday Soc.*, **24**, 429 (1928).
 2116. WYATT W. F., *Trans. Faraday Soc.*, **25**, 43 (1929).
 2117. VAN WYK H. J., *Z. anorg. Chem.*, **47**, 1 (1905).
 2118. WYROUBOFF, *Ann. chim. phys.*, (4), **16**, 292 (1869).
 2119. WYROUBOFF G., *Bull. Soc. chim.*, (3), **25**, 121 (1901).
2120. YABANA K., *Biochem. Z.*, **213**, 456 (1929).
 2121. YAGODA H., *J. Am. Chem. Soc.*, **52**, 3068 (1930).
 2122. YAJNIK N. A., JAIN M. P., NATH D., *J. Ind. Chem. Soc.*, **2**, 115 (1925).
 2123. YAMAMURA S., *Bull. Soc. chim. (Japan)*, **1**, 183 (1926).
 2124. YOST D. M., STONE W. E., *J. Am. Chem. Soc.*, **55**, 1890 (1933).
 2125. YOUNG S. W., *J. Am. Chem. Soc.*, **19**, 851 (1897).
 2126. YOUNG S. W., BURKE, *J. Am. Chem. Soc.*, **26**, 1417 (1904); **28**, 321 (1906).
2127. ZAAGER H. G., *Rec. trav. Chim.*, **5**, 316 (1886).
 2128. ZALAI D., *Tables. Annuel.*, **1**, 410 (1910).
 2129. ZAPATA C., ZAPATA, *Anal. Soc. esp. fis. quim.*, **28**, 603 (1930).
 2130. ZAPPI E. V., MANINI A., *Ann. Assoc. quim. Argent.*, **17**, 90 (1929).
 2131. ZELLSHOEFER G. F., *Ind. Eng. Chem.*, **29**, 548 (1937).

2132. ZELHOFER G. F., COPLEY M. J., MARVEL C. S., *J. Am. Chem. Soc.*, **60**, 1337 (1939).
2133. ZERNER E., WEISZ H., OPALZKI H., *Z. angew. Chem.*, **35**, 253 (1922).
2134. ZINK J., LIERE R., *Z. angew. Chem.*, **28**, 226 (1915).
2135. ZOCHER H., *Z. allgem. Chem.*, **112**, 1 (1920).

COMPOSITION OF STABLE SOLID PHASES

Tables 1 and 2 give components of saturated solutions in equilibrium with the liquid and solid phases and transition temperatures. Temperatures shown in heavy type are not transition points. The formulae in the last column refer to the solid phases in equilibrium with the saturated solution, the temperature and components of which are given for each system.

Table 1

SOLID PHASES FOR SYSTEMS IN WHICH WATER IS A SOLVENT

No.	Solute		<i>t</i>	Concentration, Wt. %	Solid phase
	Formula	Name			
1	LiCl	Lithium Chloride	-80	25.3	LiCl·5H ₂ O
	"	" "	-68	28.7	LiCl·3H ₂ O
	"	" "	-20	36.9	LiCl·2H ₂ O
	"	" "	18.5	45.35	LiCl·H ₂ O
	"	" "	160	59.2	LiCl
2	LiClO ₃	Lithium Chlorate	-40	37.0	LiClO ₃ ·3H ₂ O
	"	" "	1.5	71.1	LiClO ₃ ·H ₂ O
	"	" "	21.0	81.2	LiClO ₃ γ
	"	" "	41.5	86.6	LiClO ₃ β
	"	" "	99.0	94.9	LiClO ₃ z
3	LiClO ₄	Lithium Perchlorate	0	29.90	LiClO ₄ ·3H ₂ O
	"	" "	92.53	70.33	LiClO ₄ ·H ₂ O
	"	" "	145.75	90	LiClO ₄
4	LiBr	Lithium Bromide	-45	33.3	LiBr·3H ₂ O
	"	" "	4	61.5	LiBr·2H ₂ O
	"	" "	44	67.6	LiBr·H ₂ O
5	LiBrO ₃	Lithium Bromate	5	61.6	LiBrO ₃ ·H ₂ O
	"	" "	53	72.4	LiBrO ₃
6	LiI	Lithium Iodide	-69	48.2	LiI·3H ₂ O
	"	" "	70.5	74.8	LiI·2H ₂ O
	"	" "	77	81.4	LiI·H ₂ O
	"	" "	130	89.2	LiI·1/2H ₂ O

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
7	LiCNS	Lithium Thiocyanate	20	53.2	LiCNS·2H ₂ O
	"	"	34	57.7	LiCNS
8	LiN ₃	Lithium Azide	-47.5	26.0	LiN ₃ ·4H ₂ O
	"	"	-31	33.5	LiN ₃ ·H ₂ O
	"	"	68.2	48.0	LiN ₃
9	LiNO ₂	Lithium Nitrite	-38.7	26.6	LiNO ₂ ·1½H ₂ O
	"	"	-7.95	43.5	LiNO ₂ ·H ₂ O
	"	"	50.9	63.0	LiNO ₂ ·½H ₂ O
	"	"	94.0	75.9	LiNO ₂
10	LiNO ₃	Lithium Nitrate	-17.8	33	LiNO ₃ ·3H ₂ O
	"	"	29.6	58	LiNO ₃ ·½H ₂ O
	"	"	61.1	64.9	LiNO ₃
11	Li ₃ VO ₄	Lithium Vanadate	0	2.4	Li ₃ VO ₄ ·9H ₂ O
	"	"	38.4	5.09	Li ₃ VO ₄ ·H ₂ O
12	LiCHO ₂	Lithium Formate	-20	21.14	LiCHO ₂ ·H ₂ O
	"	"	98	57.05	LiCHO ₂
13	LiC ₂ H ₃ O ₂	Lithium Acetate	-16.1	18.33	LiC ₂ H ₃ O ₂ ·H ₂ O
	"	"	57.0	64.88	LiC ₂ H ₃ O ₂
14	LiC ₇ H ₅ O ₂	Lithium Benzoate	0	27.97	LiC ₇ H ₅ O ₂ ·H ₂ O
	"	"	84.5	34.61	LiC ₇ H ₅ O ₂
15	LiC ₇ H ₅ O ₃	Lithium o-Hydroxybenzoate	-8.5	45.20	LiC ₇ H ₅ O ₃ ·6H ₂ O
	"	"	9.0	52.45	LiC ₇ H ₅ O ₃ ·H ₂ O
	"	"	73.0	66.56	LiC ₇ H ₅ O ₃
16	NaOH	Sodium Hydroxide	-28	19.0	NaOH·7H ₂ O
	"	"	-24	22.2	NaOH·5H ₂ O
	"	"	-17.7	24.5	NaOH·4H ₂ O
	"	"	5.4	32.2	NaOH·3½H ₂ O
	"	"	5	45.5	NaOH·2H ₂ O
	"	"	12.3	50.8	NaOH·H ₂ O
	"	"	61.8	74.2	NaOH
17	NaCl	Sodium Chloride	-21.1	23.0	NaCl·2H ₂ O
	"	"	0.1	26.3	NaCl
18	NaClO	Sodium Hypochlorite	-16.6	19.2	NaClO·5H ₂ O
	"	"	23.0	48.5	NaClO·2½H ₂ O
19	NaClO ₄	Sodium Perchlorate	-32	56.0	NaClO ₄ ·H ₂ O
	"	"	50.8	73.3	NaClO ₄
20	NaBr	Sodium Bromide	-28	40.3	NaBr·5H ₂ O
	"	"	-23.5	41.2	NaBr·2H ₂ O
	"	"	51	53.9	NaBr
21	NaI	Sodium Iodide	-13.5	60.0	NaI·2H ₂ O
	"	"	67	74.6	NaI
22	NaIO ₃	Sodium Iodate	-0.35	2.38	NaIO ₃ ·5H ₂ O
	"	"	19.85	7.83	NaIO ₃ ·H ₂ O
	"	"	73.4	20.0	NaIO ₃
23	NaIO ₄	Sodium Periodate	5.8	3.93	NaIO ₄ ·3H ₂ O
	"	"	34.5	21.3	NaIO ₄

No.	Solute		<i>t</i>	Concentration, Wt. %	Solid phase
	Formula	Name			
24	NaCN	Sodium Cyanide	-26.4	23.46	NaCN·2H ₂ O
		" "	35	45.0	NaCN
25	Na ₂ B ₄ O ₇	Sodium Tetraborate	-0.45	1.09	Na ₂ B ₄ O ₇ ·10H ₂ O
		" "	61.5	16.2	Na ₂ B ₄ O ₇ ·5H ₂ O
26	Na ₂ B ₁₀ O ₁₁	Sodium Pentaborate	-1.70	5.8	Na ₂ B ₁₀ O ₁₁ ·10H ₂ O
		" "	100	51.8	Na ₂ B ₁₀ O ₁₁ ·2H ₂ O
27	Na ₂ CO ₃	Sodium Carbonate	-2.05	5.71	Na ₂ CO ₃ ·10H ₂ O
		" "	32.0	31.25	Na ₂ CO ₃ ·7H ₂ O
		" "	34.8	32.8	Na ₂ CO ₃ ·H ₂ O
		" "	112.5	30.8	Na ₂ CO ₃
28	NaN ₃	Sodium Azide	-15.1	21.6	NaN ₃ ·3H ₂ O
		" "	-2.1	26	NaN ₃
29	NaNO ₂	Sodium Nitrite	-19.5	28.1	NaNO ₂ ·1/2H ₂ O
		" "	-5.1	41.6	NaNO ₂
30	NaH ₂ PO ₄	Sodium Dihydrogen-phosphate	0	36.6	NaH ₂ PO ₄ ·2H ₂ O
		" "	40.8	58.7	NaH ₂ PO ₄ ·H ₂ O
		" "	57.4	63.8	NaH ₂ PO ₄
31	Na ₂ HPO ₄	Sodium Hydrogen-phosphate	-0.47	1.45	Na ₂ HPO ₄ ·12H ₂ O
		" "	35	30	Na ₂ HPO ₄ ·7H ₂ O
32	Na ₃ PO ₄	" "	48.35	38.5	Na ₂ HPO ₄ ·2H ₂ O
		" "	95.0	51.5	Na ₂ HPO ₄
		Sodium Phosphate	0	4.3	Na ₃ PO ₄ ·12H ₂ O
		" "	50	22.7	Na ₃ PO ₄ ·10H ₂ O
		" "	70	32.7	Na ₃ PO ₄ ·8H ₂ O
		" "	121	48.4	Na ₃ PO ₄ ·H ₂ O
33	Na ₄ P ₂ O ₇	Sodium Pyrophosphate	215	37.1	Na ₃ PO ₄
		" "	-0.43	2.13	Na ₄ P ₂ O ₇ ·10H ₂ O
34	Na ₂ H ₂ P ₂ O ₇	Sodium Dihydrogen Pyrophosphate	79.5	34	Na ₄ P ₂ O ₇
		" "	-0.7	4.08	Na ₂ H ₂ P ₂ O ₇ ·6H ₂ O
35	Na ₂ HAsO ₄	" "	30	14.58	Na ₂ H ₂ P ₂ O ₇
		Sodium Hydrogenarsenate	-1.138	5.12	Na ₂ HAsO ₄ ·12H ₂ O
		" "	20.5	26.1	Na ₂ HAsO ₄ ·7H ₂ O
		" "	56.2	57.1	Na ₂ HAsO ₄ ·5H ₂ O
		" "	67.4	64.8	Na ₂ HAsO ₄ ·H ₂ O
36	Na ₂ S	" "	99.5	66.5	Na ₂ HAsO ₄
		Sodium Sulfide	-10	9.34	Na ₂ S·9H ₂ O
		" "	48	26.3	Na ₂ S·6H ₂ O
		" "	91.5	37.4	Na ₂ S·5 1/2 H ₂ O
37	Na ₂ SO ₃	Sodium Sulfite	-3.45	10.48	Na ₂ SO ₃ ·7H ₂ O
		" "	33.4	28.0	Na ₂ SO ₃
38	Na ₂ S ₂ O ₅	Sodium Pyrosulfite	-9.05	23.50	Na ₂ S ₂ O ₅ ·7H ₂ O
		" "	5.5	37.7	Na ₂ S ₂ O ₅

Continuation of Table 1

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
39	Na ₂ SO ₄	Sodium Sulfate	-1.2	3.85	Na ₂ SO ₄ ·10H ₂ O
			33.5	33.6	Na ₂ SO ₄
40	Na ₂ S ₂ O ₃	Sodium Thiosulfate	-11	30.0	Na ₂ S ₂ O ₃ ·5H ₂ O
			47.9	62.0	Na ₂ S ₂ O ₃ ·2H ₂ O
			65	69.5	Na ₂ S ₂ O ₃ ·1/2H ₂ O
			75	70.8	Na ₂ S ₂ O ₃
41	Na ₂ S ₂ O ₈	Sodium Dithionate	-1.36	5.41	Na ₂ S ₂ O ₈ ·8H ₂ O
			0	5.90	Na ₂ S ₂ O ₈ ·6H ₂ O
			9.1	9.74	Na ₂ S ₂ O ₈ ·2H ₂ O
42	Na ₂ SeO ₃	Sodium Selenite	-20.5	38.8	Na ₂ SeO ₃ ·8H ₂ O
			-8.7	42	Na ₂ SeO ₃ ·5H ₂ O
			35.9	49	Na ₂ SeO ₃
43	NaHSeO ₃	Sodium Hydrogen selenite	-9.3	31.66	NaHSeO ₃ ·3H ₂ O
			27.1	62.52	NaHSeO ₃
			93.0	75.8	Na ₂ Se ₂ O ₅
44	Na ₂ SeO ₄	Sodium Selenate	0	11.74	Na ₂ SeO ₄ ·10H ₂ O
			35.2	45.47	Na ₂ SeO ₄
45	Na ₂ MoO ₄	Sodium Molybdate	0	30.63	Na ₂ MoO ₄ ·10H ₂ O
			10	39.28	Na ₂ MoO ₄ ·2H ₂ O
46	Na ₂ CrO ₄	Sodium Chromate	-4.9	20.0	Na ₂ CrO ₄ ·10H ₂ O
			19.52	44.2	Na ₂ CrO ₄ ·6H ₂ O
			25.6	46.08	Na ₂ CrO ₄ ·4H ₂ O
			65	55.23	Na ₂ CrO ₄
47	Na ₂ Cr ₂ O ₇	Sodium Dichromate	0	61.98	Na ₂ Cr ₂ O ₇ ·2H ₂ O
			83	79.9	Na ₂ Cr ₂ O ₇
48	Na ₂ WO ₄	Sodium Tungstate	-5	30.6	Na ₂ WO ₄ ·10H ₂ O
			6	41.8	Na ₂ WO ₄ ·2H ₂ O
49	NaCHO ₂	Sodium Formate	-20	22.8	NaCHO ₂ ·3H ₂ O
			15.3	42.4	NaCHO ₂ ·2H ₂ O
			24.5	49.8	NaCHO ₂
50	Na ₂ C ₄ H ₄ O ₄	Sodium Succinate	0	17.7	Na ₂ C ₄ H ₄ O ₄ ·6H ₂ O
			64.9	45.5	Na ₂ C ₄ H ₄ O ₄
51	NaC ₇ H ₅ O ₃	Sodium o-Hydroxybenzoate	-1.5	20.06	NaC ₇ H ₅ O ₃ ·6H ₂ O
			47.5	55.1	NaC ₇ H ₅ O ₃
52	NaC ₇ H ₅ O ₃	Sodium p-Hydroxybenzoate	7.0	19.65	NaC ₇ H ₅ O ₃ ·5H ₂ O
			43.0	45.61	NaC ₇ H ₅ O ₃
53	KOH	Potassium Hydroxide	-36.2	26.6	KOH·4H ₂ O
			-33	44.4	KOH·2H ₂ O
			32.5	57.44	KOH·H ₂ O
54	KF	Potassium Fluoride	-21.8	21.5	KF·4H ₂ O
			17.7	47.7	KF·2H ₂ O
			40.2	58.08	KF

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
55	K_2CO_3	Potassium Carbonate	-36.5	39.6	$K_2CO_3 \cdot 6H_2O$
		"	-6.2	50.9	$K_2CO_3 \cdot 1\frac{1}{2}H_2O$
56	$K_2S_2O_8$	Potassium Thiosulfate	0	49.0	$K_2S_2O_8 \cdot 2H_2O$
		"	17	60.1	$3K_2S_2O_8 \cdot 5H_2O$
		"	35	66.9	$K_2S_2O_8 \cdot H_2O$
		"	56.1	70.1	$3K_2S_2O_8 \cdot H_2O$
		"	78.3	74.5	$K_2S_2O_8$
57	K_3SbS_4	Potassium Tetrathioantimonate	-34	62.4	$K_3SbS_4 \cdot 6H_2O$
		"	0	75.7	$K_3SbS_4 \cdot 5H_2O$
		"	50	77.0	$K_3SbS_4 \cdot 3H_2O$
58	K_2SeO_3	Potassium Selenite	-43.5	58.5	$K_2SeO_3 \cdot 4H_2O$
		"	24.3	68.6	K_2SeO_3
59	$K_4Fe(CN)_6$	Potassium Hexacyanoferrate (II)	-1.6	11.6	$K_4Fe(CN)_6 \cdot 3H_2O$
		"	87.3	41.34	$K_4Fe(CN)_6$
60	$K_2Pt(CN)_4$	Potassium Tetracyanoplatinate	0.1	10.4	$K_2Pt(CN)_4 \cdot 5H_2O$
		"	13.35	21.6	$K_2Pt(CN)_4 \cdot 3H_2O$
		"	52.4	54.2	$K_2Pt(CN)_4 \cdot 2H_2O$
		"	74.5	63.7	$K_2Pt(CN)_4 \cdot H_2O$
61	$KC_2H_3O_2$	Potassium Acetate	0.1	68.4	$KC_2H_3O_2 \cdot 1\frac{1}{2}H_2O$
		"	41	76.6	$K_2C_2H_3O_2 \cdot \frac{1}{2}H_2O$
62	$KC_7H_5O_3$	Potassium o-Hydroxybenzoate	0	44.08	$KC_7H_5O_3 \cdot H_2O$
		"	61.0	61.31	$KC_7H_5O_3$
63	$CuCl_2$	Copper (II) Chloride	-43.4	39.9	$CuCl_2 \cdot 4H_2O$
		"	15.0	42.1	$CuCl_2 \cdot 3H_2O$
		"	25.7	43.6	$CuCl_2 \cdot 2H_2O$
		"	42.2	45.2	$CuCl_2 \cdot H_2O$
64	$CuBr_2$	Copper (II) Bromide	0	51.8	$CuBr_2 \cdot 4H_2O$
		"	18	55.9	$CuBr_2$
65	$Cu(NO_3)_2$	Copper (II) Nitrate	-26.4	36	$Cu(NO_3)_2 \cdot 9H_2O$
		"	-20	40	$Cu(NO_3)_2 \cdot 6H_2O$
		"	25.4	60.8	$Cu(NO_3)_2 \cdot 3H_2O$
66	$CuSO_4$	Copper (II) Sulfate	-16	12.5	$CuSO_4 \cdot 5H_2O \alpha$
		"	56	24.3	$CuSO_4 \cdot 5H_2O \beta$
		"	105	44.1	$CuSO_4$
		"			
67	$RbCHO_2$	Rubidium Formate	3.3	78.86	$RbCHO_2 \cdot H_2O$
		"	16.5	84.5	$RbCHO_2 \cdot \frac{1}{2}H_2O$
		"	51.0	89.5	$RbCHO_2$
68	AgF	Silver Fluoride	-14.2	37.5	$AgF \cdot 4H_2O$
		"	18.65	62.8	$AgF \cdot 2H_2O$
		"	39.5	68.9	AgF
69	$AgClO_4$	Silver Perchlorate	-58.6	73.9	$AgClO_4 \cdot H_2O$
		"	43	86.5	$AgClO_4$
70	$BeSO_4$	Beryllium Sulfate	-18.0	27.0	$BeSO_4 \cdot 4H_2O$
		"	99	43.8	$BeSO_4 \cdot 2H_2O$

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
71	MgCl ₂	Magnesium Chloride	-33.6	20.6	MgCl ₂ ·12H ₂ O
			-16.8	31.6	MgCl ₂ ·8H ₂ O
			-3.4	34.4	MgCl ₂ ·6H ₂ O
			116.7	46.2	MgCl ₂ ·4H ₂ O
			181.5	55.8	MgCl ₂ ·2H ₂ O
72	Mg(ClO ₃) ₂	Magnesium Chlorate	-18	51.64	Mg(ClO ₃) ₂ ·6H ₂ O
			42	63.82	Mg(ClO ₃) ₂ ·4H ₂ O
73	MgI ₂	Magnesium Iodide	0	54.7	MgI ₂ ·8H ₂ O
			43.5	65.4	MgI ₂ ·6H ₂ O
74	Mg(IO ₃) ₂	Magnesium Iodate	-0.36	3.18	Mg(IO ₃) ₂ ·10H ₂ O
			15.0	7.29	Mg(IO ₃) ₂ ·4H ₂ O
			57.5	13.1	Mg(IO ₃) ₂
75	MgBr ₂	Magnesium Bromide	-42.7	36.8	MgBr ₂ ·10H ₂ O
			-0.8	49.4	MgBr ₂ ·6H ₂ O
76	Mg(NO ₂) ₂	Magnesium Nitrite	-21.15	23.2	Mg(NO ₂) ₂ ·9H ₂ O
			-10.5	38.6	Mg(NO ₂) ₂ ·6H ₂ O
			29.5	52.0	Mg(NO ₂) ₂ ·3H ₂ O
77	Mg(NO ₃) ₂	Magnesium Nitrate	-31.6	32.3	Mg(NO ₃) ₂ ·9H ₂ O
			-15	37.0	Mg(NO ₃) ₂ ·6H ₂ O
			55.6	67.4	Mg(NO ₃) ₂ ·2H ₂ O
			127.7	81.8	Mg(NO ₃) ₂
78	MgSO ₃	Magnesium Sulfite	0	0.338	MgSO ₃ ·6H ₂ O
			40	0.93	MgSO ₃ ·3H ₂ O
79	MgSO ₄	Magnesium Sulfate	-3.5	17.0	MgSO ₄ ·7H ₂ O
			48	33.0	MgSO ₄ ·6H ₂ O
			69	37.1	MgSO ₄ ·H ₂ O
80	MgSeO ₄	Magnesium Selenate	-7.5	9.2	MgSeO ₄ ·7H ₂ O
			20	27.2	MgSeO ₄ ·6H ₂ O
81	MgPt(CN) ₄	Magnesium Tetracyanoplatinate	-4.12	24.90	MgPt(CN) ₄ ·8H ₂ O
			42.2	40.21	MgPt(CN) ₄ ·4H ₂ O
			96.4	44.33	MgPt(CN) ₄ ·2H ₂ O
82	CaCl ₂	Calcium Chloride	-55	29.8	CaCl ₂ ·6H ₂ O
			29.8	50.1	CaCl ₂ ·4H ₂ O _α
			20.0	51.1	CaCl ₂ ·4H ₂ O _β
			38.4	56.0	CaCl ₂ ·2H ₂ O
			175.5	74.8	CaCl ₂ ·H ₂ O
			260	77.6	CaCl ₂
83	Ca(ClO ₃) ₂	Calcium Chlorate	-41.0	45.5	Ca(ClO ₃) ₂ ·6H ₂ O
			-26.8	55.0	Ca(ClO ₃) ₂ ·4H ₂ O
			-7.8	62.7	Ca(ClO ₃) ₂ ·2H ₂ O
			76.0	77.0	Ca(ClO ₃) ₂
84	CaBr ₂	Calcium Bromide	-22	50.5	CaBr ₂ ·6H ₂ O
			34.2	65.1	CaBr ₂ ·4H ₂ O
85	Ca(IO ₃) ₂	Calcium Iodate	5	0.119	Ca(IO ₃) ₂ ·6H ₂ O
			35	0.476	Ca(IO ₃) ₂ ·4H ₂ O
			50	0.590	Ca(IO ₃) ₂ ·H ₂ O
			60	0.617	Ca(IO ₃) ₂

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
86	Ca(NO ₂) ₂	Calcium Nitrite	-20	34.2	Ca(NO ₂) ₂ ·4H ₂ O
	"	"	34.6	55.05	Ca(NO ₂) ₂ ·H ₂ O
	"	"	128	71.0	Ca(NO ₂) ₂
87	Ca(NO ₃) ₂	Calcium Nitrate	-28.7	43.37	Ca(NO ₃) ₂ ·4H ₂ O
	"	"	42.7	70.37	Ca(NO ₃) ₂ ·3H ₂ O
	"	"	49	77.49	Ca(NO ₃) ₂ ·2H ₂ O
	"	"	55	78.16	Ca(NO ₃) ₂
88	CaC ₁₀ H ₁₈ O ₄	Calcium Pentanoate	0	8.94	CaC ₁₀ H ₁₈ O ₄ ·3H ₂ O
	"	"	57	7.19	CaC ₁₀ H ₁₈ O ₄ ·H ₂ O
89	Ca[(CH ₃) ₂ ASO ₂] ₂	Calcium Cacodylate	0	32.42	Ca[(CH ₃) ₂ ASO ₂] ₂ ·9H ₂ O
	"	"	48.5	54.89	Ca[(CH ₃) ₂ ASO ₂] ₂ ·H ₂ O
	"	"	64.0	57.29	Ca[(CH ₃) ₂ ASO ₂] ₂
90	CaC ₁₀ H ₁₈ O ₄	Calcium 2-Methylbutanoate	0	23.05	CaC ₁₀ H ₁₈ O ₄ ·5H ₂ O
	"	"	36.5	29.90	CaC ₁₀ H ₁₈ O ₄ ·1/2H ₂ O
91	CaC ₁₀ H ₁₈ O ₄	Calcium 3-Methylbutanoate	0	20.66	CaC ₁₀ H ₁₈ O ₄ ·3H ₂ O
	"	"	50	16.63	CaC ₁₀ H ₁₈ O ₄ ·H ₂ O
92	ZnCl ₂	Zinc Chloride	-62	51.0	ZnCl ₂ ·4H ₂ O
	"	"	-30	61.5	ZnCl ₂ ·3H ₂ O
	"	"	6.5	71.6	ZnCl ₂ ·2 1/2H ₂ O
	"	"	11.5	77.0	ZnCl ₂ ·1 1/2H ₂ O
	"	"	28	81.3	ZnCl ₂
93	Zn(ClO ₃) ₂	Zinc Chlorate	-18	55.62	Zn(ClO ₃) ₂ ·6H ₂ O
	"	"	18	66.52	Zn(ClO ₃) ₂ ·4H ₂ O
94	ZnBr ₂	Zinc Bromide	-15	77.13	ZnBr ₂ ·3H ₂ O
	"	"	-8	79.06	ZnBr ₂ ·2H ₂ O
	"	"	35	85.45	ZnBr ₂
95	Zn(NO ₃) ₂	Zinc Nitrate	-32	38.9	Zn(NO ₃) ₂ ·9H ₂ O
	"	"	-17.6	44.4	Zn(NO ₃) ₂ ·6H ₂ O
	"	"	34.6	66.2	Zn(NO ₃) ₂ ·4H ₂ O
	"	"	37.2	78.0	Zn(NO ₃) ₂ ·2H ₂ O
	"	"	52.1	86.3	Zn(NO ₃) ₂ ·H ₂ O
96	ZnSO ₄	Zinc Sulfate	-6.55	27.1	ZnSO ₄ ·7H ₂ O
	"	"	37.9	41.0	ZnSO ₄ ·6H ₂ O
	"	"	54.5	~44	ZnSO ₄ ·H ₂ O
97	Zn[(CH ₃) ₂ ASO ₂] ₂	Zinc Cacodylate	1	25.9	Zn[(CH ₃) ₂ ASO ₂] ₂ ·7H ₂ O
	Zn[(CH ₃) ₂ ASO ₂] ₂	"	25	40.0	Zn[(CH ₃) ₂ ASO ₂] ₂ ·H ₂ O
	"	"	64	34.3	Zn[(CH ₃) ₂ ASO ₂] ₂
98	SrCl ₂	Strontium Chloride	-20	26.0	SrCl ₂ ·6H ₂ O
	"	"	70	46.2	SrCl ₂ ·2H ₂ O
99	SrI ₂	Strontium Iodide	0	62.3	SrI ₂ ·6H ₂ O
	"	"	90	78.5	SrI ₂ ·2H ₂ O

No.	Solute		<i>t</i>	Concentration, Wt. %	Solid phase
	Formula	Name			
100	Sr(NO ₃) ₂	Strontium Nitrate	-5.4	24.7	Sr(NO ₃) ₂ ·4H ₂ O
			29.3	47.0	Sr(NO ₃) ₂
101	SrC ₂ H ₂ O ₄	Strontium Formate	0	6.56	SrC ₂ H ₂ O ₄ ·2H ₂ O
			86	21.6	SrC ₂ H ₂ O ₄ ·H ₂ O
102	SrC ₄ H ₆ O ₄	Strontium Acetate	0.05	27.0	SrC ₄ H ₆ O ₄ ·4H ₂ O
			8.4	30.3	SrC ₄ H ₆ O ₄ ·1/2H ₂ O
103	Sr[(CH ₃) ₂ ASO ₂] ₂	Strontium Cacodylate	0	44.11	Sr[(CH ₃) ₂ ASO ₂] ₂ ·13H ₂ O
			31	62.01	Sr[(CH ₃) ₂ ASO ₂] ₂ ·3H ₂ O
			57	68.42	Sr[(CH ₃) ₂ ASO ₂] ₂ ·H ₂ O
104	CdCl ₂	Cadmium Chloride	-10.2	43.0	CdCl ₂ ·4H ₂ O
			-5.6	45.75	CdCl ₂ ·2 1/2 H ₂ O
			33.8	57.4	CdCl ₂ ·H ₂ O
			261	80	CdCl ₂
105	CdBr ₂	Cadmium Bromide	-4.4	32.9	CdBr ₂ ·4H ₂ O
			36.0	60.3	CdBr ₂
106	CdI ₂	Cadmium Iodide	-5.3	42.05	CdI ₂ ·4H ₂ O
			-2.9	43.75	CdI ₂
107	Cd(NO ₃) ₂	Cadmium Nitrate	-16.0	36.9	Cd(NO ₃) ₂ ·9H ₂ O
			3.5	56.1	Cd(NO ₃) ₂ ·4H ₂ O
			48.7	82.3	Cd(NO ₃) ₂ ·2H ₂ O
			56.8	86.0	Cd(NO ₃) ₂
108	CdSO ₄	Cadmium Sulfate	-17	44.5	CdSO ₄ ·7H ₂ O
			-18	43.35	CdSO ₄ ·2 2/3 H ₂ O
			74.5	46.7	CdSO ₄ ·H ₂ O
			112	32.3	CdSO ₄
109	CdC ₂ H ₂ O ₄	Cadmium Formate	0	7.7	CdC ₂ H ₂ O ₄ ·2H ₂ O
			70	43.5	CdC ₂ H ₂ O ₄
110	BaI ₂	Barium Iodide	-33.5	56.0	BaI ₂ ·7 1/2 H ₂ O
			25.7	68.9	BaI ₂ ·2H ₂ O
			98.9	73.35	BaI ₂ ·H ₂ O
111	BaC ₄ H ₆ O ₄	Barium Acetate	0.3	37.0	BaC ₄ H ₆ O ₄ ·3H ₂ O
			26.2	43.3	BaC ₄ H ₆ O ₄ ·H ₂ O
			40.5	44.1	BaC ₄ H ₆ O ₄
112	Ba[(CH ₃) ₂ ASO ₂] ₂	Barium Cacodylate	0	46.2	Ba[(CH ₃) ₂ ASO ₂] ₂ ·9H ₂ O
			53.0	71.72	Ba[(CH ₃) ₂ ASO ₂] ₂ ·3H ₂ O
			77.0	76.62	Ba[(CH ₃) ₂ ASO ₂] ₂
113	Hg(ClO ₄) ₂	Mercury (II) Perchlorate	-20	68.2	Hg(ClO ₄) ₂ ·4H ₂ O
			36	82.3	Hg(ClO ₄) ₂ ·2H ₂ O
114	Al(NO ₃) ₃	Aluminum Nitrate	-27	30.45	Al(NO ₃) ₃ ·9H ₂ O
			90	60.5	Al(NO ₃) ₃ ·8H ₂ O
			107	62.5	Al(NO ₃) ₃ ·6H ₂ O

No.	Solute		<i>t</i>	Concentration, Wt. %	Solid phase	
	Formula	Name				
115	Ce ₂ (SeO ₄) ₃	Cerium (III) Selenate	0	28.34	Ce ₂ (SeO ₄) ₃ ·12H ₂ O	
		"	"	12.6	26.95	Ce ₂ (SeO ₄) ₃ ·11H ₂ O
		"	"	34.2	24.89	Ce ₂ (SeO ₄) ₃ ·10H ₂ O
		"	"	60.0	12.03	Ce ₂ (SeO ₄) ₃ ·8H ₂ O
		"	"	80.5	4.36	Ce ₂ (SeO ₄) ₃ ·7H ₂ O
116	Pr ₂ (SO ₄) ₃	Praseodymium Sulfate	0	16.5	Pr ₂ (SO ₄) ₃ ·8HO	
		"	"	90	1.1	Pr ₂ (SO ₄) ₃ ·5H ₂ O
		Neodymium Sulfate	0	11.5	Nd ₂ (SO ₄) ₃ ·15H ₂ O	
			10	8.8	Nd ₂ (SO ₄) ₃ ·8H ₂ O _α	
			87	1.2	Nd ₂ (SO ₄) ₃ ·8H ₂ O _β	
118	NH ₃	Ammonia	-120	34.5	NH ₃ ·H ₂ O	
		"	-87	50.5	NH ₃ · ¹ / ₂ H ₂ O	
		"	-94	80.3	NH ₃	
119	HNO ₃	Nitric Acid	-43	32.7	HNO ₃ ·3H ₂ O	
		"	-42	70.5	HNO ₃ ·H ₂ O	
		"	-66.3	89.95	HNO ₃	
120	H ₃ PO ₄	Phosphoric Acid	-81	62.9	2H ₃ PO ₄ ·H ₂ O	
		"	23.5	94.8	10H ₃ PO ₄ ·H ₂ O	
		"	26.2	95.9	H ₃ PO ₄	
121	As ₂ O ₅	Arsenic Pentoxide	-59	31.7	As ₂ O ₅ ·4H ₂ O	
		"	29.5	41.4	3As ₂ O ₅ ·5H ₂ O	
122	H ₂ SO ₄	Sulfuric Acid	-72.4	36.5	H ₂ SO ₄ ·8H ₂ O	
		"	-62.0	38.2	H ₂ SO ₄ ·6H ₂ O	
		"	-54.0	42.0	H ₂ SO ₄ ·4H ₂ O	
		"	-47.2	68.0	H ₂ SO ₄ ·2H ₂ O	
		"	-39.5	73.5	H ₂ SO ₄ ·H ₂ O	
		"	-35.5	93.5	H ₂ SO ₄	
123	H ₂ SeO ₄	Selenic Acid	-95	50	H ₂ SeO ₄ ·4H ₂ O	
		"	-50	74	H ₂ SeO ₄ ·H ₂ O	
		"	16	91.5	H ₂ SeO ₄	
124	H ₂ TeO ₄	Telluric Acid	0	13.92	H ₂ TeO ₄ ·6H ₂ O	
		"	10	25.29	H ₂ TeO ₄ ·2H ₂ O	
125	HF	Hydrogen Fluoride	-70.2	29.7	HF·H ₂ O	
		"	-75.2	70.7	HF· ¹ / ₂ H ₂ O	
		"	-100.4	79.4	HF· ¹ / ₄ H ₂ O	
		"	-110.9	89.3	HF	
126	HCl	Hydrogen Chloride	-86	24.8	HCl·3H ₂ O	
		"	-27.5	44	HCl·2H ₂ O	
		"	-23.5	58	HCl·H ₂ O	
127	HClO ₄	Perchloric Acid	-50.5	56.7	HClO ₄ ·3 ¹ / ₂ H ₂ O	
		"	-40.5	61.8	HClO ₄ ·3H ₂ O _α	
		"	-47.8	61.8	HClO ₄ ·3H ₂ O _β	
		"	-37.5	65.1	HClO ₄ ·2 ¹ / ₂ H ₂ O	
		"	-44	67.4	HClO ₄ ·2H ₂ O	
		"	-12.5	76.7	HClO ₄ ·H ₂ O	

No.	Solute		<i>t</i>	Concentration, Wt. %	Solid phase
	Formula	Name			
128	MnCl ₂	Manganese Chloride	-20	35.0	MnCl ₂ ·4H ₂ O
			60	52.06	MnCl ₂ ·2H ₂ O
129	Mn(NO ₃) ₂	Manganese Nitrate	-36	40.5	Mn(NO ₃) ₂ ·6H ₂ O
			27	65.66	Mn(NO ₃) ₂ ·3H ₂ O
130	MnSO ₄	Manganese Sulfate	-11.4	32.20	MnSO ₄ ·7H ₂ O
			8.6	37.2	MnSO ₄ ·5H ₂ O
			24.1	39.2	MnSO ₄ ·H ₂ O
131	HBr	Hydrogen Bromide	-57	54.8	HBr·3H ₂ O
			-48.2	60.2	HBr·2H ₂ O
			-15.5	73.3	HBr·H ₂ O
132	HI	Hydrogen Iodide	-80	47.9	HI·4H ₂ O
			-49	66.3	HI·3H ₂ O
			-56	73.5	HI·2H ₂ O
133	FeCl ₂	Iron (II) Chloride	-36.5	30.4	FeCl ₂ ·6H ₂ O
			12.3	37.6	FeCl ₂ ·4H ₂ O
			76.5	47.4	FeCl ₂ ·2H ₂ O
134	FeCl ₃	Iron (III) Chloride	-55	33.1	FeCl ₃ ·6H ₂ O
			27.4	68.6	FeCl ₃ ·3½H ₂ O
			30	73.2	FeCl ₃ ·2½H ₂ O
			56	78.3	FeCl ₃ ·2H ₂ O
			66	84.0	FeCl ₃
135	Fe(ClO ₄) ₃	Iron (III) Perchlorate	0	74.32	Fe(ClO ₄) ₃ ·10H ₂ O
			45	83.76	Fe(ClO ₄) ₃ ·9H ₂ O
136	FeBr ₂	Iron (II) Bromide	-43.6	42.25	FeBr ₂ ·9H ₂ O
			-29.3	47.65	FeBr ₂ ·6H ₂ O
			49.0	58.45	FeBr ₂ ·4H ₂ O
			83.0	63.3	FeBr ₂ ·2H ₂ O
137	Fe(NO ₃) ₂	Iron (II) Nitrate	-27	35.66	Fe(NO ₃) ₂ ·9H ₂ O
			-9	39.68	Fe(NO ₃) ₂ ·6H ₂ O
138	FeSO ₄	Iron (I) Sulfate	-1.82	14.91	FeSO ₄ ·7H ₂ O
			56.56	35.31	FeSO ₄ ·4H ₂ O
			64.8	35.6	FeSO ₄ ·H ₂ O
139	CoCl ₂	Cobalt (II) Chloride	-22.5	24.5	CoCl ₂ ·6H ₂ O
			49	46.0	CoCl ₂ ·4H ₂ O
			58	48.4	CoCl ₂ ·2H ₂ O
140	Co(ClO ₃) ₂	Cobalt (II) Chlorate	-21	53.30	Co(ClO ₃) ₂ ·6H ₂ O
			18	64.19	Co(ClO ₃) ₂ ·4H ₂ O
141	Co(ClO ₄) ₂	Cobalt (II) Perchlorate	-62.2	37.5	Co(ClO ₄) ₂ ·9H ₂ O
			18	50.0	Co(ClO ₄) ₂ ·5H ₂ O
142	CoBr ₂	Cobalt (II) Bromide	0	47.9	CoBr ₂ ·6H ₂ O
			43	65.2	CoBr ₂ ·4H ₂ O
			60	69.4	CoBr ₂ ·2H ₂ O
143	Co(NO ₃) ₂	Cobalt (II) Nitrate	-26	39.45	Co(NO ₃) ₂ ·9H ₂ O
			-21	41.55	Co(NO ₃) ₂ ·6H ₂ O
			55	61.74	Co(NO ₃) ₂ ·3H ₂ O

Continuation of Table 1

No.	Solute		t	Concentration, Wt. %	Solid phase
	Formula	Name			
144	CoSO ₄	Cobalt (II) Sulfate	-2.7	19.0	CoSO ₄ ·7H ₂ O
	"	"	44	34.0	CoSO ₄ ·6H ₂ O
	"	"	71	38.4	CoSO ₄ ·2H ₂ O
145	NiCl ₂	Nickel Chloride	-45.3	29.9	NiCl ₂ ·7H ₂ O
	"	"	-33.3	33.8	NiCl ₂ ·6H ₂ O
	"	"	28.8	41.6	NiCl ₂ ·4H ₂ O
	"	"	64.3	46.1	NiCl ₂ ·2H ₂ O
146	NiClO ₃	Nickel Chlorate	-18	49.55	Ni(ClO ₃) ₂ ·6H ₂ O
	"	"	48	67.60	Ni(ClO ₃) ₂ ·4H ₂ O
147	NiClO ₄	Nickel Perchlorate	-49	~45	Ni(ClO ₄) ₂ ·9H ₂ O
	"	"	0	51.6	Ni(ClO ₄) ₂ ·5H ₂ O
148	Ni(IO ₃) ₂	Nickel Iodate	0	0.73	Ni(IO ₃) ₂ ·4H ₂ O
	"	"	0	0.53	Ni(IO ₃) ₂ ·2H ₂ O _α
	"	"	8	0.525	Ni(IO ₃) ₂ ·2H ₂ O _β
	"	"	30	1.13	Ni(IO ₃) ₂
149	Ni(NO ₃) ₂	Nickel Nitrate	-27.8	36.0	Ni(NO ₃) ₂ ·9H ₂ O
	"	"	-34.1	38.7	Ni(NO ₃) ₂ ·6H ₂ O
	"	"	54	60.0	Ni(NO ₃) ₂ ·4H ₂ O
	"	"	85.4	67.2	Ni(NO ₃) ₂ ·2H ₂ O
150	NiSO ₄	Nickel Sulfate	-5	20.47	NiSO ₄ ·7H ₂ O
	"	"	32.3	30.55	NiSO ₄ ·6H ₂ O (голубой)
	"	"	54.5	34.43	NiSO ₄ ·6H ₂ O (зеленый)
151	UO ₂ (NO ₃) ₂	Uranyl Nitrate	-18.1	43.1	UO ₂ (NO ₃) ₂ ·6H ₂ O
	"	"	58.6	75.6	UO ₂ (NO ₃) ₂ ·2H ₂ O
152	CH ₃ NO	Formamide	-45.4	65.3	CH ₃ NO·H ₂ O
	"	"	-37.6	72.8	CH ₃ NO
153	CH ₄ SO ₃	Methanesulfonic Acid	-75.0	57.6	CH ₄ SO ₃ ·3H ₂ O
	"	"	-54.5	72.3	CH ₄ SO ₃ ·H ₂ O
	"	"	-15	95.0	CH ₄ SO ₃
154	C ₂ HO ₂ Cl ₃	Trichloroacetic Acid	-0.6	4.5	C ₂ HO ₂ Cl ₃ ·2 ¹ / ₂ H ₂ O
	"	"	17.0	81.1	C ₂ HO ₂ Cl ₃
155	C ₅ H ₁₁ N	Piperidine	-31.9	69.9	2C ₅ H ₁₁ NH ₂ O
	"	"	-16.4	95.6	C ₅ H ₁₁ N
156	C ₆ H ₇ NSO ₃	Sulfanilic Acid	0	0.444	C ₆ H ₇ NSO ₃ ·2H ₂ O
	"	"	18.9	1 137	C ₆ H ₇ NSO ₃ ·H ₂ O
	"	"	44	2.36	C ₆ H ₇ NSO ₃
157	C ₆ H ₈ O ₇	Citric Acid	-11.8	46.47	C ₆ H ₈ O ₇ ·H ₂ O
	"	"	35.8	67.68	C ₆ H ₈ O ₇
158	C ₈ H ₁₀ N ₄ O ₂	Caffeine	-0.4	4.0	C ₈ H ₁₀ N ₄ O ₂ ·H ₂ O
	"	"	61.0	31.0	C ₈ H ₁₀ N ₄ O ₂

Table 2

SOLID PHASES FOR SYSTEMS WITH NON-AQUEOUS SOLVENTS

No.	Component A		Component B		<i>t</i>	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
1	LiCl	Lithium Chloride	CH ₄ O	Methanol	0	31.1	LiCl·3CH ₄ O
2	"	"	C ₂ H ₆ O	Ethanol	10	30.7	LiCl
3	"	"	C ₅ H ₅ N	Pyridine	20	12.61	LiCl·4C ₅ H ₅ O
4	NaCl	Sodium Chloride	NH ₃	Ammonia	8	19.57	LiCl
5	NaBr	Sodium Bromide	"	"	28	11.31	LiCl·2C ₅ H ₅ N
6	"	"	C ₂ H ₅ NO	Acetamide	-76.6	11.87	LiCl·C ₅ H ₅ N
7	NaI	Sodium Iodide	CH ₄ O	Methanol	-5	13.4	NaCl·5NH ₃
8	"	"	C ₂ H ₅ NO	Acetamide	9.1	9.1	NaCl
9	"	"	CH ₄ O	Methanol	35	57.5	NaBr·5NH ₃
10	"	"	C ₂ H ₅ NO	Acetamide	70	11.6	NaBr
11	NaC ₂ H ₃ O ₂	Sodium Acetate	C ₂ H ₄ O ₂	Acetic Acid	135	21.1	NaBr·2C ₂ H ₅ NO
12	CuCl ₂	Copper (II) Chloride	CH ₄ O	Methanol	10	39.4	NaBr
13	Cu ₂ H ₆ O ₄	Copper (II) Acetate	C ₂ H ₅ NO	Acetamide	30	44.8	NaI·3CH ₄ O
	"	"	C ₃ H ₆ O	Acetone	41.5	32.3	NaI
	"	"	C ₄ H ₈ O	2-Butanone	125	47.4	NaI·2C ₂ H ₅ NO
	"	"	C ₂ H ₄ O ₂	Acetic Acid	-34.0	3.2	NaI
	"	"	C ₅ H ₅ N	Pyridine	25.7	40.7	NaI·3C ₃ H ₆ O
	"	"	"	"	-70	6.8	NaI
	"	"	"	"	-30	21.9	NaI·3C ₄ H ₈ O
	"	"	"	"	25.3	9.5	NaI
	"	"	"	"	112.0	41.3	NaC ₂ H ₃ O ₂ ·2C ₂ H ₅ O ₂
	"	"	"	"	174.0	56.6	NaC ₂ H ₃ O ₂ ·C ₂ H ₄ O ₂
	"	"	"	"	-17.3	0.140	NaC ₂ H ₃ O ₂
	"	"	"	"	-8.9	0.270	CuCl ₂ ·6C ₅ H ₅ N
	"	"	"	"	58	0.543	CuCl ₂ ·2C ₅ H ₅ N
	"	"	"	"	-11.6	0.37	CuCl ₂ ·1 1/2 C ₅ H ₅ N
	"	"	"	"	45.2	4.17	Cu ₂ H ₆ O ₄ ·4C ₅ H ₅ N
	"	"	"	"			Cu ₂ H ₆ O ₄ ·C ₅ H ₅ N

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
14	AgClO ₄	Silver Perchlorate	C ₃ H ₃ N	Pyridine	-43.0	7.2	AgClO ₄ ·4C ₃ H ₃ N
	"	"	"	"	68.0	41.7	4AgClO ₄ ·9C ₃ H ₃ N
	"	"	"	"	95.6	47.8	AgClO ₄ ·2C ₃ H ₃ N
	"	"	"	"	144-147	—	AgClO ₄ ·C ₆ H ₆
15	"	"	C ₆ H ₆	Benzene	5.12	3.44	AgClO ₄ ·C ₆ H ₆
	"	"	"	"	159.0	64.6	AgClO ₄
16	AgNO ₃	Silver Nitrate	C ₃ H ₃ N	Pyridine	-65	9	AgNO ₃ ·6C ₃ H ₃ N
	"	"	C ₃ H ₃ N	"	-24	15.3	AgNO ₃ ·3C ₃ H ₃ N
	"	"	"	"	48.5	41.3	AgNO ₃ ·2C ₃ H ₃ N
17	MgBr ₂	Magnesium Bromide	C ₄ H ₁₀ O	Ethyl Ether	-20	0.22	MgBr ₂ ·3C ₄ H ₁₀ O
	"	"	"	"	14	1.55	MgBr ₂ ·2C ₄ H ₁₀ O
18	CaBr ₂	Calcium Bromide	C ₂ H ₆ O	Ethanol	0	31.8	CaBr ₂ ·4C ₂ H ₆ O
	"	"	"	"	20	34.8	CaBr ₂ ·3C ₂ H ₆ O
	"	"	"	"	73.9	50.5	CaBr ₂ ·C ₂ H ₆ O
19	Ca(NO ₃) ₂	Calcium Nitrate	NH ₃	Ammonia	-69.5	37.1	Ca(NO ₃) ₂ ·6 ¹ / ₂ NH ₃
	"	"	"	"	-41	43.2	Ca(NO ₃) ₂ ·4NH ₃
	"	"	"	"	48.5	52.6	Ca(NO ₃) ₂
20	"	"	CH ₄ O	Methanol	10	57.3	Ca(NO ₃) ₂
	"	"	"	"	72	63.0	Ca(NO ₃) ₂ ·2CH ₄ O
21	"	"	C ₂ H ₆ O	Ethanol	10	31.6	Ca(NO ₃) ₂
	"	"	"	"	70	47.3	Ca(NO ₃) ₂ ·2C ₂ H ₆ O
22	Zn(NO ₃) ₂	Zinc Nitrate	NH ₃	Ammonia	-77	16.75	Zn(NO ₃) ₂ ·10NH ₃
	"	"	"	"	-58	26.0	Zn(NO ₃) ₂ ·8NH ₃
	"	"	"	"	0	22.4	Zn(NO ₃) ₂ ·6NH ₃
	"	"	"	"	58	26.0	Zn(NO ₃) ₂ ·4NH ₃
23	SrBr ₂	Strontium Bromide	CH ₄ O	Methanol	10	53.5	SrBr ₂ · ¹ / ₂ CH ₄ O
	"	"	"	"	50	56.4	SrBr ₂ · ¹ / ₂ CH ₄ O
24	"	"	C ₂ H ₆ O	Ethanol	10	38.8	SrBr ₂ · ¹ / ₂ C ₂ H ₆ O
	"	"	"	"	50	42.9	SrBr ₂

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
25	SrBr ₂	Strontium Bromide	C ₃ H ₈ O	Acetone	0	0.862	SrBr ₂ · 1/4 C ₃ H ₈ O
26	Sr(NO ₃) ₂	"	NH ₃	Ammonia	35	0.358	SrBr ₂ · C ₃ H ₈ O
	"	"	"	"	-90	4.5	Sr(NO ₃) ₂ · 8NH ₃
	"	"	"	"	-3.0	27.6	Sr(NO ₃) ₂ · 4NH ₃
	"	"	"	"	22.0	40.8	Sr(NO ₃) ₂
27	CdBr ₂	Cadmium Bromide	CH ₄ O	Methanol	0	9.0	CdBr ₂ · 3CH ₄ O
	"	"	"	"	30	17.4	CdBr ₂ · 2CH ₄ O
	"	"	C ₂ H ₆ O	Ethanol	10	21.2	CdBr ₂ · 1/2 C ₂ H ₆ O
	"	"	"	"	45	28.2	CdBr ₂
29	BaC ₄ H ₆ O ₄	Barium Acetate	C ₂ H ₄ O ₂	Acetic Acid	19.0	10.5	BaC ₄ H ₆ O ₄ · 3C ₂ H ₄ O ₂
30	HgCl ₂	Mercury (II) Chloride	C ₅ H ₅ N	Pyridine	32.0	23.8	BaC ₄ H ₆ O ₄ · 2C ₂ H ₄ O ₂
	"	"	"	"	-32.6	2.76	HgCl ₂ · 2C ₅ H ₅ N
31	HgBr ₂	Mercury (II) Bromide	"	"	83.5	50.53	3HgCl ₂ · 2C ₅ H ₅ N
	"	"	"	"	10	19.3	HgBr ₂ · 2C ₅ H ₅ N
	"	"	"	"	39	74.4	HgBr ₂ · C ₅ H ₅ N
32	"	"	C ₆ H ₇ N	Aniline	60	13.9	HgBr ₂ · 2C ₆ H ₇ N
	"	"	"	"	33.5	66.1	HgBr ₂ · C ₆ H ₇ N
33	HgI ₂	Mercury (II) Iodide	C ₅ H ₅ N	Pyridine	-50	1.93	HgI ₂ · 2C ₅ H ₅ N
	"	"	"	"	87	85.17	HgI ₂ · C ₅ H ₅ N
	"	"	C ₉ H ₇ N	Quinoline	100	14.8	HgI ₂ · 2C ₉ H ₇ N
34	"	"	"	"	145	56.2	HgI ₂ · C ₉ H ₇ N
35	Hg(CN) ₂	Mercury (II) Cyanide	C ₅ H ₅ N	Pyridine	9	19.6	Hg(CN) ₂ · 6C ₅ H ₅ N
	"	"	"	"	22.5	40.1	Hg(CN) ₂ · 2C ₅ H ₅ N
	"	"	"	"	53	52.0	2Hg(CN) ₂ · 3C ₅ H ₅ N
	"	"	"	"	68	54.8	Hg(CN) ₂ · C ₅ H ₅ N
36	AlCl ₃	Aluminum Chloride	C ₈ H ₄ NO ₂ Cl	o-Chloronitrobenzene	15	20.3	AlCl ₃ · C ₈ H ₄ NO ₂ Cl
	"	"	"	"	69	54.4	AlCl ₃
	"	"	"	"	36	16.6	AlCl ₃ · C ₆ H ₄ NO ₂ Cl
37	"	"	"	m-Chloronitrobenzene	81	55.6	AlCl ₃

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
38	AlCl ₃	Aluminum Chloride	C ₆ H ₄ NO ₂ Cl	p-Chloronitrobenzene	68	17.1	AlCl ₃ ·C ₆ H ₄ NO ₂ Cl
39	"	"	C ₆ H ₄ NO ₂ Br	"	94	58.1	AlCl ₃
40	"	"	"	o-Bromonitrobenzene	20	17.5	AlCl ₃ ·C ₆ H ₄ NO ₂ Br
41	"	"	"	"	80	46.5	AlCl ₃
42	"	"	"	m-Bromonitrobenzene	47	11.9	AlCl ₃ ·C ₆ H ₄ NO ₂ Br
43	"	"	"	"	97	47.4	AlCl ₃
44	"	"	"	p-Bromonitrobenzene	99	22.2	AlCl ₃ ·C ₆ H ₄ NO ₂ Br
45	"	"	C ₆ H ₅ NO ₂	"	113	52.8	AlCl ₃
46	"	"	"	Nitrobenzene	2	10.3	AlCl ₃ ·2C ₆ H ₅ NO ₂
47	"	"	C ₇ H ₇ NO ₂	"	25.5	30.5	AlCl ₃ ·C ₆ H ₅ NO ₂
48	"	"	"	"	52	61.6	AlCl ₃
49	"	"	"	o-Nitrotoluene	-9.3	1	AlCl ₃ ·2C ₇ H ₇ NO ₂
50	"	"	"	"	55	31	AlCl ₃ ·C ₇ H ₇ NO ₂
51	"	"	"	"	45	61.5	AlCl ₃
52	"	"	"	m-Nitrotoluene	13	7.8	AlCl ₃ ·2C ₇ H ₇ NO ₂
53	"	"	"	"	35	24.5	AlCl ₃ ·C ₇ H ₇ NO ₂
54	"	"	"	"	45	61.5	AlCl ₃
55	"	"	"	p-Nitrotoluene	37	19	AlCl ₃ ·C ₇ H ₇ NO ₂
56	"	"	"	"	45	64	AlCl ₃
57	"	"	C ₁₃ H ₁₀ O	Benzophenone	39.5	15.4	AlCl ₃ ·(C ₆ H ₅) ₂ CO
58	"	"	"	"	60	56.1	AlCl ₃
59	AlBr ₃	Aluminum Bromide	C ₆ H ₄ NO ₂ Cl	o-Chloronitrobenzene	13.8	37.5	AlBr ₃ ·C ₆ H ₄ NO ₂ Cl
60	"	"	"	"	21	77.5	AlBr ₃
61	"	"	"	m-Chloronitrobenzene	35.5	27.8	AlBr ₃ ·C ₆ H ₄ NO ₂ Cl
62	"	"	"	"	40	79.1	AlBr ₃
63	"	"	"	p-Chloronitrobenzene	60	36.6	AlBr ₃ ·C ₆ H ₄ NO ₂ Cl
64	"	"	C ₆ H ₄ NO ₂ Br	o-Bromonitrobenzene	21	30	AlBr ₃ ·C ₆ H ₄ NO ₂ Br
65	"	"	"	"	24	72	AlBr ₃

Continuation of Table 2

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
51	AlBr ₃	Aluminum Bromide	C ₈ H ₄ NO ₂ Br	m-Bromonitrobenzene	45.5	19.5	AlBr ₃ ·C ₈ H ₄ NO ₂ Br
52	"	"	"	"	42	78.7	AlBr ₃
53	"	"	C ₈ H ₆ NO ₂	p-Bromonitrobenzene	98	35.3	AlBr ₃ ·C ₈ H ₄ NO ₂ Br
54	"	"	C ₇ H ₅ N	Nitrobenzene	45	76	AlBr ₃
	"	"	"	"	-15	42	AlBr ₃ ·C ₆ H ₅ NO ₂
	"	"	"	"	20	78.9	AlBr ₃
	"	"	"	Benzonitrile	-8	22.97	AlBr ₃ ·6C ₆ H ₅ CN
	"	"	"	"	-2	24.21	AlBr ₃ ·4 ¹ / ₂ C ₆ H ₅ CN
	"	"	"	"	15	21.09	AlBr ₃ ·4C ₆ H ₅ CN
	"	"	"	"	40	29.62	AlBr ₃ ·2C ₆ H ₅ CN
	"	"	"	"	70	30.53	AlBr ₃ ·C ₆ H ₅ CN
55	"	"	C ₇ H ₅ OCl	Benzoyl Chloride	-5	22.2	AlBr ₃ ·C ₇ H ₅ OCl
	"	"	"	"	7	78.8	AlBr ₃
56	"	"	C ₇ H ₇ NO ₂	p-Nitrotoluene	29	46.1	AlBr ₃ ·C ₇ H ₇ NO ₂
	"	"	"	"	27	78.9	AlBr ₃
57	"	"	"	m-Nitrotoluene	1	32	AlBr ₃ ·C ₇ H ₇ NO ₂
	"	"	"	"	27	78.9	AlBr ₃
58	"	"	C ₇ H ₇ NO ₂	o-Nitrotoluene	-11	8.7	AlBr ₃ ·2C ₇ H ₇ NO ₂
	"	"	"	"	42.5	47.7	AlBr ₃ ·C ₇ H ₇ NO ₂
	"	"	"	"	19	79.1	AlBr ₃
59	"	"	C ₁₃ H ₁₀ O	Benzophenone	38	24.7	AlBr ₃ ·(C ₆ H ₅) ₂ CO
	"	"	"	"	38	75	AlBr ₃
60	CeBr ₃	Cerium (III) Bromide	C ₈ H ₆ N	Pyridine	-5	0.437	CeBr ₃ ·3C ₈ H ₅ N
	"	"	"	"	3	1.33	2CeBr ₃ ·3C ₈ H ₅ N
	"	"	"	"	5	0.768	CeBr ₃ ·2C ₈ H ₅ N
	"	"	"	"	18	3.53	CeBr ₃ ·C ₈ H ₅ N
	"	"	"	"	30	0.821	3CeBr ₃ ·2C ₈ H ₅ N
61	PbBr ₂	Lead Bromide	"	"	-26	1.01	PbBr ₂ ·3C ₈ H ₅ N
	"	"	"	"	19	0.6	PbBr ₂ ·2C ₈ H ₅ N

Continuation of Table 2

No.	Component A		Component B		<i>t</i>	Concentration A, Wt. %	Solid phase	
	Formula	Name	Formula	Name				
62	PbI ₂	Lead Iodide	C ₃ H ₃ N	Pyridine	-37	0.166	PbI ₂ ·3C ₅ H ₅ N	
63	Pb(NO ₃) ₂	"	"	"	6	0.225	PbI ₂ ·2C ₅ H ₅ N	
		"	Lead Nitrate	"	"	-19.4	2.85	Pb(NO ₃) ₂ ·4C ₅ H ₅ N
64	H ₃ PO ₄	"	"	"	51	23.1	Pb(NO ₃) ₂ ·3C ₅ H ₅ N	
		"	Phosphoric Acid	C ₄ H ₁₀ O	Ethyl Ether	96	66.7	Pb(NO ₃) ₂ ·2C ₅ H ₅ N
		"	"	"	"	14.0	82.5	4H ₃ PO ₄ ·C ₄ H ₁₀ O
65	SbCl ₃	"	"	C ₆ H ₅ F	Fluorobenzene	16.0	88	6H ₃ PO ₄ ·C ₄ H ₁₀ O
		"	Antimony Chloride	C ₆ H ₅ Br	Bromobenzene	-40.5	2.4	H ₃ PO ₄ ·C ₆ H ₅ F
66	"	"	"	C ₆ H ₅ I	Iodobenzene	5.5	45.8	SbCl ₃
67	"	"	"	C ₆ H ₅ I	"	-32.5	4.8	SbCl ₃ ·C ₆ H ₅ Br
				"	"	3	40.3	SbCl ₃
68	"	"	"	C ₈ H ₅ NO ₂	Nitrobenzene	-45	29.8	SbCl ₃ ·C ₆ H ₅ I
				"	"	-35	32.5	SbCl ₃
69	"	"	"	C ₆ H ₆	Benzene	-16.5	38	SbCl ₃ ·C ₆ H ₅ NO ₂
				"	"	-6.5	67.5	SbCl ₃
70	"	"	"	C ₆ H ₆	"	1	19.4	2SbCl ₃ ·C ₆ H ₆
				"	"	62	96	SbCl ₃
71	"	"	"	C ₆ H ₆ O	Phenol	5	52	2SbCl ₃ ·C ₆ H ₆ O
				"	"	36.5	83.7	SbCl ₃
72	"	"	"	C ₆ H ₇ N	Aniline	-7.2	1	SbCl ₃ ·4C ₅ H ₅ N
				"	"	7.7	29.6	SbCl ₃ ·3C ₆ H ₇ N
73	"	"	"	"	"	8.7	46.3	SbCl ₃ ·2C ₆ H ₇ N
				"	"	89.5	61.7	SbCl ₃ ·C ₆ H ₇ N
72	"	"	"	C ₇ H ₇ Cl	Chlorotoluene	31	88	SbCl ₃
				"	"	-49	6.9	SbCl ₃ ·C ₇ H ₇ Cl
73	"	"	"	C ₇ H ₇ NO ₂	o-Nitrotoluene	0	46.1	SbCl ₃
				"	"	-18.5	18.5	SbCl ₃ ·C ₇ H ₇ NO ₂
				"	"	27.5	74.6	SbCl ₃

Continuation of Table 2

No.	Component A		Component B		<i>t</i>	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
74	SbCl ₃	Antimony Chloride	C ₇ H ₇ NO ₂	p-Nitrotoluene	7.5	52	SbCl ₃ ·C ₇ H ₇ NO ₂
75	"	"	C ₇ H ₈ O	Benzaldehyde	3	68.5	SbCl ₃
76	"	"	C ₇ H ₈	"	10	43.5	SbCl ₃ ·C ₇ H ₈ O
77	"	"	C ₇ H ₈ O	Toluene	25	83	SbCl ₃
78	"	"	C ₈ H ₈ O	"	-70	3.1	SbCl ₃ ·C ₇ H ₈
79	"	"	C ₈ H ₁₀	Methoxybenzene	11	57.8	2SbCl ₃ ·C ₇ H ₈
80	"	"	"	"	40	85.8	SbCl ₃
81	"	"	"	Acetophenone	-36.5	11.8	SbCl ₃ ·C ₇ H ₈ O
82	"	"	"	1, 2-Dimethylbenzene	25	63.6	2SbCl ₃ ·C ₇ H ₈ O
83	"	"	"	1, 3-Dimethylbenzene	40	84.5	SbCl ₃ ·C ₈ H ₈ O
84	"	"	"	1, 4-Dimethylbenzene	1	31.8	SbCl ₃
85	"	"	"	"	32	84	SbCl ₃ ·C ₈ H ₈ O
86	"	"	"	"	-35	14	SbCl ₃ ·C ₈ H ₁₀
87	"	"	"	"	31.5	82.5	SbCl ₃
88	"	"	"	"	-60.5	7.5	SbCl ₃ ·C ₈ H ₁₀
89	"	"	"	"	-2	49.8	2SbCl ₃ ·C ₈ H ₁₀
90	"	"	"	"	36.5	83.7	SbCl ₃
91	"	"	"	"	11.7	62.7	SbCl ₃ ·C ₈ H ₁₀
92	"	"	"	"	55	92	2SbCl ₃ ·C ₈ H ₁₀
93	"	"	"	"	58	0.3	SbCl ₃
94	"	"	"	"	-93.5	77.4	SbCl ₃ ·C ₈ H ₁₀
95	"	"	"	"	35	81.8	2SbCl ₃ ·C ₈ H ₁₀
96	"	"	"	"	36.8	0.6	SbCl ₃
97	"	"	"	"	-70	68.2	2SbCl ₃ ·C ₉ H ₁₂
98	"	"	"	"	8.5	18.6	SbCl ₃
99	"	"	"	"	-60	50.7	SbCl ₃ ·C ₉ H ₁₂
100	"	"	"	"	-5	87.5	2SbCl ₃ ·C ₉ H ₁₂
101	"	"	"	"	51	1.5	SbCl ₃
102	"	"	"	"	-55.6	51.4	SbCl ₃ ·C ₉ H ₁₂
103	"	"	"	"	38	92.4	2SbCl ₃ ·C ₉ H ₁₂
104	"	"	"	"	58.5		SbCl ₃

Continuation of Table 2

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
86	SbCl ₃	Antimony Chloride	C ₁₀ H ₇ Cl	1-Chloronaphthalene	-21	8.1	2SbCl ₃ ·C ₁₀ H ₇ Cl
87	"	"	"	"	45.5	75	SbCl ₃
88	"	"	"	2-Chloronaphthalene	28	52.3	SbCl ₃ ·C ₁₀ H ₇ Cl
89	"	"	C ₁₀ H ₇ Br	1-Bromonaphthalene	-1	64	SbCl ₃ ·C ₁₀ H ₇ Cl
90	"	"	C ₁₀ H ₇ NO ₂	1-Nitronaphthalene	31.5	64.7	SbCl ₃
91	"	"	C ₁₀ H ₈	Naphthalene	30	35.8	SbCl ₃ ·C ₁₀ H ₇ NO ₂
92	"	"	C ₁₀ H ₁₄	p-Cymene	34.5	72.8	SbCl ₃
93	"	"	C ₁₁ H ₁₈	3-Methyl-1-phenylbutane	59	42.8	2SbCl ₃ ·C ₁₀ H ₈
94	"	"	C ₁₂ H ₁₀	Biphenyl	65	94	SbCl ₃
95	"	"	C ₁₃ H ₁₀ O	Benzophenone	-76.5	2	SbCl ₃ ·C ₁₀ H ₁₄
96	"	"	C ₁₃ H ₁₂	Diphenylmethane	-3.5	41	2SbCl ₃ ·C ₁₀ H ₁₄
97	SbBr ₃	Antimony Bromide	C ₁₉ H ₁₆	Triphenylmethane	40	70.4	SbCl ₃
98	"	"	C ₆ H ₆	Benzene	-80	4.7	SbCl ₃ ·C ₁₁ H ₁₆
99	"	"	C ₆ H ₆ O	Phenol	-33	32.8	2SbCl ₃ ·C ₁₁ H ₁₆
	"	"	C ₇ H ₅ N	Benzonitrile	-5	56	SbCl ₃
	"	"	"	"	50	40.9	2SbCl ₃ ·C ₁₂ H ₁₀
	"	"	"	"	57	88.6	SbCl ₃
	"	"	"	"	35	21.7	SbCl ₃ ·C ₁₃ H ₁₀ O
	"	"	"	"	39	82.9	SbCl ₃
	"	"	"	"	22.5	7.7	2SbCl ₃ ·C ₁₃ H ₁₂
	"	"	"	"	67	95	SbCl ₃
	"	"	"	"	49	50	SbCl ₃ ·C ₁₉ H ₁₈
	"	"	"	"	35	72	SbCl ₃
	"	"	"	"	4.5	8.3	2SbBr ₃ ·C ₈ H ₆
	"	"	"	"	85	96.3	SbBr ₃
	"	"	"	"	28.5	44.6	2SbBr ₃ ·C ₈ H ₆ O
	"	"	"	"	75	91.7	SbBr ₃
	"	"	"	"	-18	28.7	SbBr ₃ ·C ₇ H ₅ N
	"	"	"	"	35	82.5	SbBr ₃

Continuation of Table 2

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
100	SbBr ₃	Antimony Bromide	C ₇ H ₆ O	Benzaldehyde	-20	38.4	SbBr ₃ ·C ₇ H ₆ O
101	"	"	C ₇ H ₈	Toluene	37.8	84.4	SbBr ₃
	"	"	"	"	-93.5	1.0	SbBr ₃ ·C ₇ H ₈
	"	"	"	"	-1	53.1	2SbBr ₃ ·C ₇ H ₈
	"	"	"	"	30	78	SbBr ₃
102	"	"	C ₇ H ₈ O	Methoxybenzene	-35	2.5	SbBr ₃ ·C ₇ H ₈ O
	"	"	"	"	30	77.9	SbBr ₃
103	"	"	C ₈ H ₆ O	Acetophenone	1.5	48.6	SbBr ₃ ·C ₈ H ₆ O
	"	"	"	"	31	83.2	SbBr ₃
104	"	"	C ₈ H ₁₀	Ethylbenzene	-93.2	0.4	SbBr ₃ ·C ₈ H ₁₀
	"	"	"	"	29	69.7	SbBr ₃
105	"	"	C ₈ H ₁₀ O	Ethoxybenzene	-29	1.6	SbBr ₃ ·C ₈ H ₁₀ O
	"	"	"	"	47	77.8	SbBr ₃
106	"	"	C ₉ H ₁₂	Propylbenzene	-80	1.3	SbBr ₃ ·C ₉ H ₁₂
	"	"	"	"	-5	49	SbBr ₃
107	"	"	"	1,2,4-Trimethylbenzene	-58.8	9.7	SbBr ₃ ·C ₉ H ₁₂
	"	"	"	"	7	63.5	2SbBr ₃ ·C ₉ H ₁₂
	"	"	"	"	33	79.1	SbBr ₃
108	"	"	"	1,3,5-Trimethylbenzene	-55.2	2.1	SbBr ₃ ·C ₉ H ₁₂
	"	"	"	"	29	46.5	2SbBr ₃ ·C ₉ H ₁₂
	"	"	"	"	69	87.7	SbBr ₃
109	"	"	C ₁₀ H ₇ NO ₂	1-Nitronaphthalene	33.5	50.5	SbBr ₃ ·C ₁₀ H ₇ NO ₂
	"	"	"	"	38	68	SbBr ₃
110	"	"	C ₁₀ H ₈	Naphthalene	57	61.2	2SbBr ₃ ·C ₁₀ H ₈
	"	"	"	"	65	86.7	SbBr ₃
111	"	"	C ₁₀ H ₁₄	p-Cymene	-50	6.1	SbBr ₃ ·C ₁₀ H ₁₄
	"	"	"	"	5	51.5	SbBr ₃
112	"	"	C ₁₁ H ₁₆	1-Phenylpentane	-70	4.5	SbBr ₃ ·C ₁₁ H ₁₆
	"	"	"	"	-17	32.5	SbBr ₃

Continuation of Table 2

No.	Component A		Component B		<i>t</i>	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
113	SbBr ₃	Antimony Bromide	C ₁₂ H ₁₀	Biphenyl	47	57.4	2SbBr ₃ ·C ₁₂ H ₁₀
114	"	"	C ₁₃ H ₁₀ O	Benzophenone	70	86.5	SbBr ₃
115	"	"	C ₁₃ H ₁₂	Diphenylmethane	29	41.2	SbBr ₃ ·C ₁₃ H ₁₀ O
116	CoCl ₂	Cobalt (II) Chloride	CH ₄ O	Methanol	40	80	SbBr ₃
117	"	"	C ₂ H ₆ O	Ethanol	22.5	12.8	2SbBr ₃ ·C ₁₃ H ₁₂
118	"	"	C ₃ H ₈ O	Acetone	82	92.2	SbBr ₃
119	"	"	C ₅ H ₈ N	Pyridine	20	27.8	CoCl ₂ ·3CH ₄ O
120	CoBr ₂	Cobalt (II) Bromide	"	"	38	37.1	CoCl ₂ ·2CH ₄ O
121	"	"	"	"	0	31.0	CoCl ₂ ·3C ₂ H ₆ O
122	NiBr ₂	Nickel Bromide	"	"	40	40.2	CoCl ₂ ·2C ₆ H ₆ O
123	CH ₄ N ₂ O	Urea	"	"	0	4.28	CoCl ₂ ·C ₃ H ₈ O
124	"	"	"	"	20	2.80	CoCl ₂
125	CH ₄ N ₂ S	Thiourea	"	"	-50.3	0.412	CoCl ₂ ·6C ₅ H ₅ N
	"	"	"	"	15	0.56	CoCl ₂ ·4C ₅ H ₅ N
	"	"	"	"	70	2.0	CoCl ₂ ·2C ₅ H ₅ N
	"	"	"	"	90	7.2	CoCl ₂
	"	"	CH ₄ O	Methanol	20	30.1	CoBr ₂ ·6CH ₄ O
	"	"	"	"	40	55.5	CoBr ₂ ·3CH ₄ O
	"	"	C ₂ H ₆ O	Ethanol	60	60.5	CoBr ₂ ·2CH ₄ O
	"	"	CH ₄ O	Methanol	10	41.3	CoBr ₂ ·3C ₂ H ₆ O
	"	"	NH ₃	Ammonia	70	55.9	CoBr ₂ ·2C ₂ H ₆ O
	"	"	C ₂ H ₄ O ₂	Acetic Acid	10	24.8	NiBr ₂ ·6CH ₄ O
	"	"	NH ₃	Ammonia	50	32.9	NiBr ₂
	"	"	"	"	-26.6	20.8	CO(NH ₂) ₂ ·NH ₃
	"	"	"	"	45.6	74.6	CO(NH ₂) ₂
	"	"	"	"	12.4	~6	CO(NH ₂) ₂ ·2C ₂ H ₄ O ₂
	"	"	"	"	39	42	CS(NH ₂) ₂
	"	"	"	"	-71.8	11.3	CS(NH ₂) ₂ ·3NH ₃
	"	"	"	"	-10	50.0	CS(NH ₂) ₂ ·NH ₃
	"	"	"	"	11.8	61.2	CS(NH ₂) ₂

Continuation of Table 2

No.	Component A		Component B		t	Concentration A, Wt. %	Solid phase
	Formula	Name	Formula	Name			
126	C ₂ H ₄ O	Acetaldehyde	C ₂ H ₆ O	Ethanol	-132	80.9	C ₂ H ₄ O · C ₂ H ₆ O
	"	"	"	"	-128	40.6	C ₂ H ₄ O · 2C ₂ H ₆ O
	"	"	"	"	-130.6	17.9	C ₂ H ₆ O
127	C ₂ H ₄ O ₂	Acetic Acid	C ₅ H ₅ N	Pyridine	-67.5	24.5	C ₂ H ₄ O ₂ · C ₅ H ₅ N
	"	"	"	"	-59	59.8	4C ₂ H ₄ O ₂ · C ₅ H ₅ N
	"	"	"	"	-44.5	69.3	C ₂ H ₄ O ₂
128	"	"	C ₆ H ₇ N	Aniline	-2.4	77.5	2C ₂ H ₄ O ₂ · C ₆ H ₇ N
	"	"	"	"	-15.6	12.5	C ₆ H ₇ N
	"	"	"	"	-117	56.0	C ₃ H ₆ O · CHCl ₃
129	C ₃ H ₆ O	Acetone	CHCl ₃	Chloroform	-117	22.9	CHCl ₃
	"	"	"	"	0	5.0	C ₇ H ₅ (NO ₂) ₃ · C ₆ H ₇ N
	C ₇ H ₅ (NO ₂) ₃	2,4,6-Trinitrotoluene	C ₆ H ₇ N	Aniline	68	90.0	C ₇ H ₅ (NO ₂) ₃

F O R M U L A

Component A	Component B	Table No.	Component A
H ₂	H ₂ O	2-8	Li ₂ CO ₃
He	>	9-14	LiGeO ₃
N ₂	>	15-21	Li ₂ Sn(OH) ₆
O ₂	>	22-24	LiN ₃
N ₂ + O ₂	>	25, 26	LiNO ₂
O ₃	>	1, 27	LiNO ₃
Ne	>	28-31	Li ₂ PO ₃
Ar	>	32, 33	Li ₂ HPO ₃
Kr	>	34, 35	Li ₃ PO ₄
Xe	>	36-38	LiH ₂ PO ₄
Rn	>	39, 40	Li ₄ P ₂ O ₆
Ag	>	1	Li ₃ VO ₄
Hg	>	1	Li ₂ SO ₄
Cl ₂	>	41-43	LiCrO ₄
Br ₂	>	44-46	Li ₂ C ₁₂ O ₇
I ₂	>	47	Li ₂ SeO ₃
H ₂ O ₂	>	48	Li ₂ MoO ₄
LiOH	>	1, 49	LiMnO ₄
LiF	>	1	LiAuCl ₄
LiCl	>	50-52	Li ₂ HgI ₄
LiBr	>	53, 54	Li ₂ Pt(CN) ₄
LiI	>	1, 55, 56	Li ₂ Na ₂ (SO ₄) ₂
LiCNS	>	57	Li ₂ K ₂ (SO ₄) ₂
LiClO ₃	>	58	LiNH ₄ SO ₄
LiBrO ₃	>	59	LiH(AlO ₂) ₂
LiIO ₃	>	1	Li ₂ GeF ₆
LiClO ₄	>	60	Li ₃ SbS ₄
LiBO ₂	>	61	LiCHO ₂
Li ₂ B ₂ O ₅	>	1	Li ₂ CH ₂ O ₆ S ₂

I N D E X

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	62	LiC ₂ H ₃ O ₂	H ₂ O	85
>	1	Li ₂ C ₄ H ₄ O ₆	>	86
>	63	Li ₂ C ₄ H ₄ O ₈	>	1
>	64	LiC ₆ H ₅ O ₄	>	1
>	65, 66	LiC ₇ H ₅ O ₂	>	87
>	67	LiC ₇ H ₅ O ₃	>	88—90
>	68	LiC ₉ H ₃ NO ₃	>	1
>	69	LiKC ₄ H ₄ O ₆	>	1
>	1	LiNaC ₄ H ₄ O ₆	>	1
>	1	LiC _n H _{2n-10}	>	91
>	1	NaOH	>	1, 92, 93
>	70	NaF	>	94
>	71	NaCl	>	95—101
>	1	NaBr	>	102
>	1	NaI	>	103, 104
>	72	NaCN	>	105
>	73	NaCNS	>	106
>	1	NaClO	>	107
>	74	NaClO ₂	>	108—111
>	1	NaBrO ₃	>	112
>	75	NaIO ₃	>	113
>	76	NaClO ₄	>	114, 115
>	77	NaIO ₄	>	116
>	79	Na ₂ B ₂ O ₄	>	1
>	80	Na ₂ B ₄ O ₇	>	117
>	81	Na ₂ B ₁₀ O ₁₆	>	118
>	82	NaHCO ₃	>	119, 120
>	83, 84	Na ₂ CO ₃	>	121, 122
>	1	Na ₂ GeO	>	123

Component A	Component B	Table No.	Component A
$\text{Na}_2\text{Sn}(\text{OH})_8$	H_2O	124, 125	$\text{Na}_2\text{Mo}_4\text{O}_{18}$
NaN_3	>	126	$\text{Na}_{10}\text{Mo}_{12}\text{O}_{41}$
NaNO_2	>	127	Na_2TeO_4
NaNO_3	>	1, 128—130	Na_2WO_4
NaH_2PO_2	>	1	$\text{Na}_{10}\text{W}_{12}\text{O}_{41}$
NaH_2PO_3	>	1	Na_4FPO_4
Na_2HPO_3	>	131	Na_2TiF_6
NaH_2PO_4	>	132—134	NaSiF_6
Na_2HPO_4	>	135—137	$\text{Na}_4\text{Fe}(\text{CN})_6$
Na_3PO_4	>	138, 139	$\text{Na}_2\text{KH}(\text{SO}_3)_2$
$\text{NaH}_3\text{P}_2\text{O}_6$	>	140	NaKS_2O_3
$\text{Na}_2\text{H}_2\text{P}_2\text{O}_6$	>	1, 141	$\text{NaAg}(\text{CN})_2$
$\text{Na}_3\text{HP}_2\text{O}_6$	>	1, 142	NaCsSO_4
$\text{Na}_4\text{P}_2\text{O}_6$	>	1, 143	$\text{Na}_2\text{NH}_4\text{H}(\text{SO}_3)_3$
$\text{NaH}_3\text{P}_2\text{O}_7$	>	144	NaAuCl_4
$\text{Na}_2\text{H}_2\text{P}_2\text{O}_7$	>	145, 146	NaCdBr_3
$\text{Na}_3\text{HP}_2\text{O}_7$	>	1	Na_2CdI_4
$\text{Na}_4\text{P}_2\text{O}_7$	>	147, 148	$\text{Na}_2\text{Cd}(\text{SO}_4)_2$
NaVO_3	>	149	NaBeF_3
Na_2HAsO_4	>	150	Na_2BeF_4
Na_3AsO_4	>	1	Na_3AlF_6
Na_3SbS_4	>	151	$\text{Na}_2\text{Al}_2(\text{SO}_4)_4$
$\text{Na}_2\text{H}_2\text{Sb}_2\text{O}_7$	>	152	$\text{NaNd}(\text{SeO}_4)_2$
Na_2S	>	153, 154	Na_2GeF_6
Na_2SO_3	>	1, 155—157	Na_2ZrF_6
NaHSO_3	>	1	Na_2IrCl_6
$\text{Na}_2\text{S}_2\text{O}_4$	>	158	$\text{Na}_6\text{Rh}_2(\text{NO}_2)_{12}$
$\text{Na}_2\text{S}_2\text{O}_5$	>	159	$\text{Na}_2(\text{UO}_2)_2(\text{CrO}_4)_2$
NaHSO_4	>	1	$\text{NaI} \cdot \text{Hg}(\text{CN})_2$
Na_2SO_4	>	160—165	NaCHO_2
$\text{Na}_2\text{S}_2\text{O}_5$	>	166, 167	$\text{Na}_2\text{CHO}_6\text{S}_2\text{Cl}$
$\text{Na}_2\text{S}_2\text{O}_6$	>	168, 169	$\text{Na}_2\text{CH}_2\text{O}_6\text{S}_2$
Na_2CrO_4	>	1, 170—172	$\text{Na}_2\text{CH}_3\text{O}_4\text{P}$
$\text{Na}_2\text{Cr}_2\text{O}_7$	>	1, 173, 174	$\text{NaC}_2\text{H}_3\text{O}_2$
$\text{Na}_2\text{Cr}_3\text{O}_{10}$	>	175	$\text{Na}_2\text{C}_2\text{O}_4$
$\text{Na}_2\text{Cr}_4\text{O}_{13}$	>	176	$\text{NaC}_2\text{H}_6\text{O}_2\text{As}$
$\text{NaH}_3(\text{SeO}_3)_2$	>	177	$\text{Na}_2\text{C}_3\text{H}_7\text{O}_6\text{P}$
Na_2SeO_3	>	178	$\text{Na}_2\text{C}_4\text{H}_2\text{O}_4$
Na_2SeO_4	>	179, 180	$\text{NaC}_4\text{H}_3\text{O}_4$
$\text{Na}_2\text{Se}_2\text{O}_5$	>	181	$\text{Na}_2\text{C}_4\text{H}_4\text{O}_6$
Na_2MoO_4	>	182	$\text{NaKC}_4\text{H}_4\text{O}_6$
$\text{Na}_2\text{Mo}_3\text{O}_{16}$	>	1	$\text{NaC}_4\text{H}_5\text{O}_4$

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	NaC ₅ H ₃ N ₄ O ₃	H ₂ O	1
>	1	NaC ₆ H ₂ N ₃ O ₇	>	1
>	1	NaC ₆ H ₄ O ₃ SCl	>	205, 206
>	183	NaC ₆ H ₄ NO ₂	>	207
>	184, 185	NaC ₆ H ₄ NO ₃	>	208
>	1	NaC ₆ H ₈ O ₃ S	>	210—212
>	1	NaC ₆ H ₅ O ₄ S	>	1, 213
>	186	NaC ₆ H ₆ NO ₃ S	>	209
>	187	MeC ₆ H ₁₀ O ₂ S ₄	>	214
>	1	NaC ₆ H ₁₁ O ₇	>	1
>	1	NaC ₇ H ₅ O ₂	>	215
>	1	NaC ₇ H ₅ O ₃	>	1, 216—218
>	1	NaC ₇ H ₇ O ₃ S	>	219
>	1	Na ₂ C ₇ H ₁₀ O ₄	>	1
>	188	NaC ₈ H ₉ O ₃ S	>	220, 221
>	1	NaC ₈ H ₁₀ NO ₄	>	1
>	1	NaC ₈ H ₁₁ N ₂ O ₃	>	222
>	189	NaC ₉ H ₇ O ₂	>	1
>	1	NaC ₉ H ₉ N ₃ O ₂ S ₂	>	223
>	190	NaC ₁₀ H ₇ O ₃ S	>	224
>	1	NaC ₁₀ H ₁₃ O ₃ S	>	225
>	191, 192	NaC ₁₀ H ₂₁ O ₃ S	>	226
>	1	NaC ₁₂ H ₁₀ N ₃ O ₃ S	>	1
>	194	NaC ₁₂ H ₂₃ O ₂	>	227
>	1	NaC ₁₂ H ₂₃ O ₃ S	>	228
>	193	NaC ₁₂ H ₂₅ O ₄ S	>	229
>	1	NaC ₁₄ H ₆ O ₃ S ₂	>	230
>	1	NaC ₁₄ H ₁₄ N ₃ O ₃ S	>	231
>	1	NaC ₁₄ H ₂₇ O ₂	>	232
>	195—197	NaC ₁₄ H ₂₉ O ₃ S	>	233
>	1	NaC ₁₄ H ₂₉ O ₄ S	>	234
>	1	NaC ₁₄ H ₂₉ O ₅ S	>	235
>	1	NaC ₁₆ H ₁₁ N ₃ O ₃ S	>	1
>	198, 199	NaC ₁₆ H ₃₁ O ₂	>	1, 236
>	200	NaC ₁₆ H ₃₁ O ₄ S	>	237
>	1	NaC ₁₆ H ₃₃ O ₃ S	>	238
>	1	NaC ₁₈ H ₃₃ O ₂	>	1
>	1	NaC ₁₈ H ₃₇ O ₃ S	>	239
>	1	Na ₂ C ₂₀ H ₆ O ₅ I ₄	>	1
>	201	NaC ₂₄ H ₃₉ O ₂	>	240
>	1, 202, 203	NaRO ₃ S	>	241, 242
>	204	KOH	>	1, 243, 244

Component A	Component B	Table No.	Component A
KF	H ₂ O	245	KH ₃ (SeO ₃) ₂
KHF ₂	>	246	K ₂ SeO ₃
KCl	>	247—251	K ₂ SeO ₄
KBr	>	252—255	K ₂ Se ₂ O ₅
KJ	>	256—259	K ₂ TeO ₄
KCNS	>	260	KMnO ₄
KClO ₃	>	261	KReO ₄
KBrO ₃	>	262—264	KBF ₄
KH(IO ₃) ₂	>	1	KPF ₆
KH ₂ (IO ₃) ₃	>	1	KSnCl ₃
KJO ₃	>	265	K ₂ SnCl ₄
KClO ₄	>	266	K ₄ SnCl ₆
KIO ₄	>	1, 267	KSnBr ₃
K ₄ I ₂ O ₉	>	268	K ₄ SnBr ₆
KBO ₃	>	1	KIBr ₂
K ₂ B ₁₀ O ₁₆	>	269	KHgI ₃
KHCO ₃	>	270, 271	K ₂ SiF ₆
K ₂ CO ₃	>	272, 273	K ₃ PO ₄ · 11MoO ₃
K ₂ Sn(OH) ₆	>	1	K ₃ PO ₄ · 12WO ₃
KN ₃	>	274	K ₃ SbS ₄
KNO ₂	>	275—277	K ₃ Cr(CN) ₆
KNO ₃	>	278—280	K ₃ Cr(CNS) ₆
KH ₂ PO ₂	>	1	K ₃ Fe(CN) ₆
KH ₂ PO ₃	>	1	K ₄ Fe(CN) ₆
K ₄ P ₂ O ₆	>	281	K ₂ PtCl ₆
KH ₅ (PO ₄) ₂	>	282	K ₂ PtBr ₆
KH ₂ PO ₄	>	283, 284	K ₂ Pt(CN) ₄
K ₃ PO ₄	>	285	KRb ₂ (ClO ₄) ₃
KH ₂ AsO ₄	>	1	K ₂ Cu(SO ₄) ₂
K ₃ V ₅ O ₁₄	>	1	KAuCl ₄
K ₂ SO ₃	>	286	KBeF ₃
KHSO ₄	>	287	K ₂ Mg(SO ₄) ₂
K ₂ SO ₄	>	288—290	K ₂ Mg(CrO ₄) ₂
K ₂ S ₂ O ₃	>	291	K ₂ MgFe(CN) ₆
K ₂ S ₂ O ₅	>	292	K ₂ CaFe(CN) ₆
K ₂ S ₂ O ₆	>	294	K ₂ Zn(CN) ₄
K ₂ S ₂ O ₈	>	293	KZnV ₅ O ₁₄
K ₂ S ₃ O ₆	>	295	K ₂ Zn(SO ₄) ₂
K ₂ S ₄ O ₆	>	296	K ₄ CdCl ₆
K ₂ S ₅ O ₆	>	297	KCdBr ₃
K ₂ CrO ₄	>	298—303	K ₂ Cd(SO ₄) ₂
K ₂ Cr ₂ O ₇	>	304—308	K ₂ BaFe(CN) ₆

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	309	K ₂ Hg(CN) ₄	H ₂ O	1
>	310	K ₂ Al ₂ (SO ₄) ₄	>	343, 344
>	311—313	KNd(SO ₄) ₂	>	1
>	314	KNd(SeO ₄) ₂	>	1
>	315	KDI(SO ₄) ₂	>	1
>	316—318	K ₂ TiF ₆	>	1, 345
>	319	K ₂ GeF ₆	>	1, 346
>	1	K ₂ ZrF ₆	>	1
>	1	K ₂ HfF ₆	>	1
>	320	KPbFe(CN) ₆	>	1
>	321	KPbCo(CN) ₆	>	1
>	322	KCr(SO ₄) ₂	>	1
>	323	K ₂ Cr ₂ Mo ₁₂ O ₄₈	>	1
>	324	KMnV ₅ O ₁₄	>	1
>	1	K ₂ Fe(SO ₄) ₂	>	347
>	1	K ₂ Co(SO ₄) ₂	>	1, 348
>	1, 325	K ₂ Ni(SO ₄) ₂	>	1, 349, 350
>	1	K ₂ IrCl ₆	>	1
>	1	K ₂ IrCl ₅	>	1
>	326	K ₂ ThF ₆	>	1
>	1	K ₂ UO ₂ Cl ₃	>	351
>	1	K ₄ UO ₂ (CO ₃) ₃	>	1
>	327	KUO ₂ (NO ₃) ₂	>	352
>	328, 329	K ₂ UO ₂ (SO ₄) ₂	>	1
>	330, 331	KCl · Hg(CN) ₂	>	1
>	1	KBr · Hg(CN) ₂	>	1
>	332	KJ · Hg(CN) ₂	>	1
>	1	KCHO ₂	>	353
>	1, 333	K ₂ CH ₂ O ₆ S ₂	>	1
>	334	KCH ₃ O ₄	>	354
>	1	K ₂ C ₂ O ₄	>	1, 355
>	335	K ₂ C ₂ O ₄ · H ₆ TeO ₆	>	356
>	1	K ₃ CoC ₆ H ₁₂	>	357
>	1	KC ₂ HO ₄	>	358
>	1	KC ₂ H ₃ O ₄	>	359
>	1	KC ₂ H ₃ O ₂	>	360
>	1	KC ₂ H ₅ O ₄ S	>	361, 362
>	1	K ₂ CoC ₆ H ₄ O ₈	>	1
>	337—340	K ₂ C ₄ H ₄ O ₆	>	1
>	341	KC ₄ H ₆ O ₆	>	1, 363—365
>	342	KC ₄ H ₇ O ₂	>	1
>	1	KC ₅ H ₁₁ O ₄ S	>	366

Component A	Component B	Table No.	Component A
KC ₅ H ₃ N ₄ O ₃	H ₂ O	1	CuS
KC ₆ H ₂ N ₃ O ₇	>	1	CuSO ₄
KC ₆ H ₃ NO ₅ SCl	>	1	CuS ₂ O ₆
KC ₆ H ₃ NO ₅ SBr	>	1	CuSiF ₆
KC ₆ H ₃ N ₂ O ₇ S	>	1	Cu(SO ₃ F) ₂ (NH ₃) ₄
KC ₆ H ₄ O ₉ SCl	>	1	CuFe(CN) ₅ NO
KC ₆ H ₄ NO ₅ S	>	1	Cu(NH ₄) ₂ Cl ₄
KC ₆ H ₅ O ₃ S	>	1	Cu(NH ₄) ₂ (SO ₄) ₂
KC ₆ H ₅ O ₄ S	>	1	CuTi(SO ₄) ₂
K ₃ C ₆ H ₈ O ₇	>	367	CuCH ₂ O ₆ S ₂
KCoC ₆ H ₈ O ₇	>	1	CuC ₂ O ₄
KC ₆ H ₁₁ O ₇	>	1	Cu ₄ H ₂ O ₄
KC ₇ H ₃ O ₂	>	368, 369	Cu ₄ H ₄ O ₆
KC ₇ H ₃ O ₃	>	370	Cu ₁₂ H ₁₀ O ₆ S ₂
KC ₇ H ₅ O ₆ S	>	1	Cu ₁₂ H ₁₆ N ₄ O ₄
KC ₈ H ₅ O ₄	>	1	Cu ₁₄ H ₈ O ₄ Cl ₂
KC ₈ H ₁₀ NO ₄ S	>	1	Cu ₁₄ H ₈ N ₂ O ₈
KC ₁₀ H ₆ O ₃ SCl	>	1	Cu ₁₄ H ₁₀ O ₄
KC ₁₀ H ₇ O ₃ S	>	1	Cu ₁₄ H ₁₀ O ₆
KC ₁₀ H ₇ O ₄ S	>	1	Cu ₂₀ H ₁₂ O ₆ S ₂ Cl ₂
K ₂ C ₁₀ H ₇ NO ₆ S ₂	>	1	Cu ₂₀ H ₁₄ O ₆ S ₂
KC ₁₀ H ₈ NO ₄ S	>	1	Cu ₂₀ H ₁₄ O ₈ S ₂
KC ₁₀ H ₁₃ O ₄ S	>	1	Cu ₂₀ H ₂₀ N ₄ O ₆ S ₂ F ₂
KC ₁₂ H ₂₃ O ₂	>	372	Cu ₂₈ H ₁₆ O ₆ S ₇ Cl ₂
K ₂ C ₁₄ H ₆ O ₈ S ₂	>	1	Cu ₂₈ H ₁₈ O ₆ S ₂
KC ₁₄ H ₈ O ₃ SCl	>	373	Cu ₂₈ H ₂₈ N ₆ O ₆ S ₂
KC ₁₄ H ₉ O ₃ S	>	1	Cu(C ₁₁ H ₁₂ N ₂ O) ₅ (BF ₄) ₂
KC ₁₄ H ₄ N ₃ O ₃ S	>	1	RbOH
K ₄ Cu ₁₂ H ₁₀ O ₁₄	>	1	RbF
K ₄ Ni ₁₂ H ₁₀ O ₁₄	>	1	RbCl
K ₄ Co ₁₂ H ₁₀ O ₁₄	>	1	RbBr
KUO ₂ C ₉ H ₁₅ O ₆	>	1	RbI
KUO ₂ C ₁₂ H ₂₁ O ₆	>	1	RbClO ₃
Cu(OH) ₂	>	1	RbBrO ₃
CuCl	>	1	RbIO ₃
CuCl ₂	>	1, 374, 375	RbClO ₄
CuBr ₂	>	376	RbIO ₄
CuI ₂	>	1	Rb ₂ O · 5B ₂ O ₃
Cu(ClO ₃) ₂	>	377	RbHCO ₃
Cu(IO ₃) ₂	>	1	RbN ₃
Cu(ClO ₄) ₂	>	1	RbNO ₃
CuCO ₃	>	1	
Cu(NO ₃) ₂	>	378	

Component R	Table No.	Component A	Component B	Table No.
H ₂ O	1	Rb ₂ SO ₄	H ₂ O	397
>	379—382	Rb ₂ CrO ₄	>	398
>	383	Rb ₂ Cr ₂ O ₇	>	1, 399
>	1	Rb ₂ SeO ₄	>	1
>	1	(Rb ₂ O) ₈ (MoO ₃) ₁₂	>	1
>	1	RbMnO ₄	>	1, 400
>	384	RbReO ₄	>	401
>	385	RbBF ₄	>	1
>	1	Rb ₂ PtCl ₆	>	402, 403
>	1	Rb ₂ SiF ₆	>	1
>	1	Rb ₂ TiF ₆	>	1
>	1	RbPF ₆	>	1
>	386	RbIBr ₂	>	1
>	387	Rb ₈ SiW ₁₂ O ₄₂	>	1
>	1	RbAuCl ₄	>	404
>	1	RbCdCl ₃	>	405
>	1	Pb ₄ CdCl ₆	>	406
>	1	RbCdBr ₃	>	407
>	1	Rb ₄ CdBr ₆	>	408
>	1	Rb ₂ Al ₂ (SO ₄) ₄	>	409
>	1, 388	RbNd(SO ₄) ₂	>	1
>	1	Rb ₃ TiCl ₆	>	1
>	1	Rb ₃ GeF ₆	>	410
>	1	RbFe(SO ₄) ₂	>	411
>	1	Rb ₂ Co(SO ₄) ₂	>	412
>	1	Rb ₂ Me(SO ₄) ₂	>	413, 414
>	1	Rb ₃ Co(NO ₂) ₆	>	1
>	1	Rb ₂ IrCl ₅	>	1
>	1	Rb ₂ IrCl ₆	>	1
>	1, 389	Rb ₃ IrCl ₆	>	1
>	1, 390	Rb ₂ UO ₂ Cl ₃	>	1
>	1	RbUO ₂ (NO ₃) ₂	>	415
>	1, 391	RbCHO ₂	>	416
>	392	Rb ₂ CHO ₆ S ₂ Cl	>	1
>	1	Rb ₂ CH ₂ O ₆ S ₂	>	1
>	1, 393, 394	Rb ₂ C ₂ O ₄ H ₆ TeO ₆	>	417
>	1	RbC ₃ H ₃ O ₂	>	418
>	395	RbC ₄ H ₅ O ₆	>	1
>	1	Rb ₂ C ₄ H ₄ O ₈	>	1
>	1	RbC ₆ H ₂ N ₃ O ₇	>	1
>	396	RbC ₆ H ₄ NO ₅ S	>	419
>		RbC ₇ H ₅ O ₂	>	420

Component A	Component B	Table No.	Component A
RbC ₇ H ₈ O ₃	H ₂ O	421, 422	Ag ₂ C ₄ H ₂ O ₄
Ag ₂ O	>	423	Ag ₂ C ₄ H ₄ O ₄
AgF	>	424, 425	Ag ₂ C ₄ H ₄ O ₅
AgCl	>	1, 426	Ag ₂ C ₄ H ₄ O ₆
AgCl · C ₄ H ₈ N ₂ S	>	427	AgC ₄ H ₇ O ₂
AgCl (CH ₄ N ₂ S) ₃	>	1	AgC ₄ H ₇ O ₃
AgBr	>	1, 428	AgC ₅ H ₉ O ₂
AgBr · C ₄ H ₈ N ₂ S	>	429	AgC ₆ H ₉ O ₇
AgI	>	1, 430	AgC ₆ H ₉ N ₂ O ₂
AgCNS	>	1	AgC ₆ H ₁₁ O ₂
AgClO ₂	>	431	AgC ₇ H ₄ O ₂ Cl
AgClO ₃	>	1	AgC ₇ H ₄ NO ₄
AgBrO ₃	>	1, 432	AgC ₇ H ₅ O ₂
AgIO ₃	>	1, 433	AgC ₇ H ₆ O ₃
AgCNO	>	1	Ag ₂ C ₇ H ₁₀ O ₄
AgClO ₄	>	434, 435	AgC ₇ H ₁₃ O ₂
AgBO ₂	>	1	AgC ₈ H ₇ O ₂
Ag ₂ CO ₃	>	1	AgC ₈ H ₇ O ₃
AgNO ₂	>	436	AgC ₈ H ₉ SeO ₃
AgNO ₃	>	437, 438	AgC ₈ H ₁₅ O ₂
Ag ₃ PO ₄	>	1	AgC ₉ H ₇ O ₂
Ag ₈ V ₄ O ₁₃	>	1	AgC ₁₀ H ₆ O ₃ SCl
Ag ₃ AsO ₃	>	1	AgC ₁₀ H ₇ O ₃ S
Ag ₃ AsO ₄	>	1	AgC ₁₁ H ₇ O ₂
Ag ₂ SO ₄	>	1, 439	AgC ₁₄ H ₉ O ₃ S
Ag ₂ CrO ₄	>	1, 440, 441	AgC ₁₄ H ₁₄ N ₃ O ₈ S
Ag ₂ Cr ₂ O ₇	>	1	AgC ₁₆ H ₃₁ O ₂
Ag ₂ SeO ₄	>	442	AgC ₁₆ H ₃₅ O ₂
AgReO ₄	>	1	Ag (C ₁₁ H ₁₂ N ₂ O) ₃ BF ₄
Ag ₂ GeF ₆	>	1, 443	Ag (C ₁₁ H ₁₂ N ₂ O) ₆ ClO ₄
Ag ₂ PO ₃ F	>	1	CsOH
Ag ₃ Fe (CN) ₆	>	1	CsF
AgSeCN	>	1	CsCl
AgTi (CN) ₂	>	1	CsBr
Ag ₂ CH ₂ O ₆ S ₂	>	1	SsClO ₃
Ag ₂ C ₂ O ₄	>	1, 444	CsBrO ₃
AgC ₂ H ₂ O ₂ Cl	>	1	CsIO ₃
AgC ₂ H ₃ O ₂	>	1, 445	CsClO ₄
Ag ₂ C ₂ N ₂ O ₂	>	1	CsIO ₄
AgC ₂ N ₃	>	1	Cs ₂ B ₁₀ O ₁₆
AgC ₃ H ₅ O ₂	>	446	CsHCO ₃
AgC ₃ N ₄	>	1	CsN ₃

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	CsNO ₃	H ₂ O	466, 467
>	1	Cs ₂ SO ₄	>	468
>	1	Cs ₂ SeO ₄	>	1
>	1	CsMnO ₄	>	469
>	447, 448	CsReO ₄	>	1
>	449	CsF ₄ B	>	1
>	1, 450—455	CsIBr ₂	>	1
>	1	Cs ₂ TiF ₆	>	1
>	1	CsGeF ₆	>	470
>	1, 456—458	CsPF ₆	>	1
>	1	CsFSO ₃	>	1
>	1	CsAuCl ₄	>	471
>	1	CsMe(SO ₄) ₂	>	472, 473
>	1	Cs ₂ IrCl ₅	>	1
>	1	Cs ₂ IrCl ₆	>	1
>	459, 460	Cs ₃ IrCl ₈	>	1
>	1	Cs ₂ PtCl ₆	>	1, 474, 475
>	1	CsHg ₂ Br ₅	>	1
>	1	Cs ₂ Al ₂ (SO ₄) ₄	>	477
>	1	Cs ₂ GeF ₆	>	478
>	1	CsGa(SO ₄) ₂	>	1
>	1	CsGa(SeO ₄) ₂	>	1
>	1	Cs ₃ TlCl ₅	>	1
>	1	Cs ₂ UO ₂ Cl ₃	>	1
>	1	CsUO ₂ (NO ₃) ₃	>	479
>	1	CsCHO ₂	>	480
>	1	Cs ₂ CHO ₆ S ₂ Cl	>	1
>	1	Cs ₂ CH ₂ O ₆ S ₂	>	1
>	1	CsC ₂ H ₃ O ₂	>	481
>	1	Cs ₂ C ₂ O ₄ · H ₆ TeO ₆	>	482
>	1	Cs ₂ C ₄ H ₄ O ₈	>	1
>	1	CsC ₄ H ₅ O ₈	>	1
>	1, 461	CsC ₆ H ₂ N ₃ O ₇	>	1
>	1	Cs ₂ CoC ₆ H ₄ O ₈	>	1
>	462	CsC ₆ H ₄ NO ₅ S	>	483
>	463	CsC ₇ H ₅ O ₂	>	484
>	1	CsC ₇ H ₅ O ₃	>	485—487
>	1, 464	Au(OH) ₃	>	1
>	1	AuCl ₃	>	1
>	465	Au(NH ₃) ₄ (NO ₃) ₃	>	1
>	1	NH ₄ Cl	>	488—490
>	1	NH ₄ Br	>	491, 492

Component A	Component B	Table No.	Component A
NH ₄ I	H ₂ O	493	(NH ₄) ₄ SnBr ₆
NH ₄ CNS	>	494, 495	(NH ₄) ₂ PtCl ₆
NH ₄ ClO ₄	>	496—498	(NH ₄) ₂ PtBr ₆
NH ₄ ClO ₄ R	>	499	(NH ₄) ₃ PO ₄ · 14MoO ₃
NH ₄ IO ₄	>	1	(NH ₄) ₃ SbS ₄
(NH ₄) ₂ B ₄ O ₇	>	500	NH ₄ ReSO ₃
(NH ₄) ₂ B ₁₀ O ₁₆	>	501	NH ₄ BePO ₄
NH ₄ HCO ₃	>	1	(NH ₄) ₂ Mg(NO ₃) ₄
NH ₄ N ₃	>	503	NH ₄ MgPO ₄
NH ₄ NO ₂	>	504	NH ₄ MgAsO ₄
NH ₄ NO ₃	>	505—509	(NH ₄) ₂ Mg(SO ₄) ₂
NH ₄ H ₂ PO ₂	>	1	(NH ₄) ₂ MgFe(CN) ₆
NH ₄ H ₂ PO ₄	>	510	NH ₄ CaAsO ₄
(NH ₄) ₂ HPO ₄	>	511, 512	(NH ₄) ₂ CaFe(CN) ₆
NH ₄ VO ₃	>	1, 513, 514	NH ₄ ZnPO ₄
NH ₄ H ₂ AsO ₄	>	515	(NH ₄) ₂ Zn(SO ₄) ₂
(NH ₄) ₂ SO ₃	>	518	(NH ₄) ₂ Sr(SO ₄) ₂
(NH ₄) ₂ S ₂ O ₅	>	1	NH ₄ CdCl ₃
(NH ₄) ₂ SO ₄	>	516—519	(NH ₄) ₄ CdCl ₆
(NH ₄) ₂ S ₂ O ₆	>	520	NH ₄ CdBr ₃
(NH ₄) ₂ S ₂ O ₈	>	1	>
(NH ₄) ₂ S ₃ O ₆	>	521	(NH ₄) ₄ CdBr ₆
(NH ₄) ₂ S ₄ O ₆	>	522	(NH ₄) ₂ HgI ₃
(NH ₄) ₂ CrO ₄	>	1, 523	(NH ₄) ₃ AlF ₆
(NH ₄) ₂ Cr ₂ O ₇	>	1, 524	(NH ₄) ₂ Al ₂ (SO ₄) ₄
NH ₄ H ₃ (SeO ₃) ₂	>	525	(NH ₄) ₂ Ga(SO ₄) ₂
(NH ₄) ₂ SeO ₄	>	526	(NH ₄) ₂ In ₂ (SO ₄) ₄
(NH ₄) ₂ Se ₂ O ₅	>	527	(NH ₄) ₂ La(NO ₃) ₅
(NH ₄) ₂ Mo ₃ O ₁₀	>	1	(NH ₄) ₂ Ce(NO ₃) ₅
(NH ₄) ₂ Mo ₄ O ₁₃	>	1, 528	(NH ₄) ₂ Ce(NO ₃) ₆
(NH ₄) ₁₀ W ₁₂ O ₄₁	>	529	(NH ₄) ₂ Ce ₂ (SO ₄) ₄
NH ₄ MnO ₄	>	1	(NH ₄) ₂ Di(NO ₃) ₅
NH ₄ ReO ₄	>	1	(NH ₄) ₃ ZrF ₆
NH ₄ B ₃ F ₉	>	1	(NH ₄) ₃ ZrF ₆
(NH ₄) ₂ HfF ₆	>	1	(NH ₄) ₂ HfF ₆
(NH ₄) ₂ SiF ₆	>	1	(NH ₄) ₃ HfF ₇
(NH ₄) ₂ TiF ₆	>	1	(NH ₄) ₂ Pb(SO ₄) ₂
NH ₄ SnCl ₃	>	530	NH ₄ PbCo(CN) ₆
(NH ₄) ₂ SnCl ₄	>	531	(NH ₄) ₂ V ₂ (SO ₄) ₄
(NH ₄) ₄ SnCl ₆	>	532	NH ₄ Cr(SO ₄) ₂
NH ₄ SnBr ₃	>	533	NH ₄ MnF ₃
(NH ₄) ₂ SnBr ₄	>	534	NH ₄ MnPO ₄

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	535	(NH ₄) ₂ Mn(SO ₄) ₂	H ₂ O	1, 558
»	536, 537	(NH ₄) ₂ Mn ₂ Mo ₇ O ₂₅	»	1
»	1, 538	NH ₄ Fe(SO ₄) ₂	»	1
»	1	(NH ₄) ₂ Fe(SO ₄) ₂	»	559
»	539	(NH ₄) ₂ Co(SO ₄) ₂	»	560, 561
»	1	(NH ₄) ₂ Ni(SO ₄) ₂	»	562
»	1	(NH ₄) ₂ IrCl ₅	»	1
»	1	(NH ₄) ₂ IrCl ₆	»	563, 564
»	540	(NH ₄) ₃ IrCl ₆	»	1
»	541	NH ₃ Pt ₂ (NO ₂) ₂	»	565
»	542	(NH ₄) ₂ UO ₂ Cl ₃	»	1
»	1	NH ₄ UO ₂ (NO ₃) ₃	»	566
»	1	(NH ₄) ₂ UO ₂ (CO ₃) ₂	»	1
»	1	(NH ₄) ₄ UO ₂ (CO ₃) ₃	»	567
»	1	NH ₄ R	»	568
»	543, 544	NH ₄ CHO ₂	»	569
»	545	(NH ₄) ₂ CH ₂ O ₈ S ₂	»	1
»	546	(NH ₄) ₂ C ₂ O ₄	»	570
»	547	NH ₄ C ₂ H ₃ O ₄	»	571
»	1	NH ₄ C ₂ H ₄ Cl	»	1
»	548	(NH ₄) ₂ C ₄ H ₃ O ₄ Cl	»	572
»	549	NH ₄ C ₄ H ₄ O ₄ Cl	»	573
»	1	(NH ₄) ₂ C ₄ H ₄ O ₆	»	574
»	1	NH ₄ C ₄ H ₅ O ₅	»	575
»	550	NH ₄ C ₄ H ₅ O ₆	»	576
»	1	NH ₄ C ₅ H ₃ N ₄ O ₃	»	577
»	1	NH ₄ C ₆ H ₂ N ₃ O ₇	»	1
»	1	NH ₄ C ₆ H ₃ O ₃ Si ₂	»	1
»	551	(NH ₄) ₂ CoC ₆ H ₄ O ₈	»	1
»	552	NH ₄ C ₆ H ₁₁ O ₇	»	1
»	553	NH ₄ C ₇ H ₅ O ₂	»	1.
»	1	NH ₄ C ₈ H ₁₀ NO ₄ S	»	1
»	554	NH ₄ C ₈ H ₁₆ Cl	»	1
»	555	NH ₄ C ₈ H ₁₆ Br	»	1
»	1	NH ₄ C ₈ H ₁₆ I	»	1
»	1	NH ₄ UO ₂ C ₉ H ₁₅ O ₆	»	1
»	556	(NH ₄) ₂ C ₁₀ H ₇ NO ₃ S ₂	»	1
»	1	NH ₄ C ₁₀ H ₁₇ O ₃ S	»	1
»	1	NH ₄ C ₁₂ H ₂₄ I	»	1
»	1, 557	(NH ₄) ₂ C ₁₄ H ₆ O ₈ S ₂	»	578
»	1	NH ₄ C ₁₄ H ₈ O ₃ SCl	»	1
»	1	NH ₄ C ₁₄ H ₉ O ₃ S	»	579

Component A	Component B	Table No.	Component A
NH ₄ C ₁₄ H ₁₄ N ₃ O ₃ S	H ₂ O	1	MgC ₄ H ₉ O ₃ S
NH ₄ C ₂₀ H ₄₀ I	>	1	MgC ₆ H ₈ O ₅
N ₂ H ₄ (HClO ₄) ₂	>	1	MgC ₁₀ H ₈ NO ₉ S ₃
BeO	>	1	MgC ₁₀ H ₇ NO ₈ S ₂
Be (ClO ₄) ₂	>	1	MgC ₁₂ H ₁₀ O ₈ S ₂
Be (NO ₃) ₂	>	580	MgC ₁₂ H ₂₂ O ₁₄
Be (VO ₃) ₂	>	1	MgC ₁₄ H ₆ O ₈ S ₂
BeSO ₄	>	581	MgC ₁₄ H ₈ N ₄ O ₈
BeC ₂ O ₄	>	1	MgC ₁₄ H ₁₀ O ₄
BeC ₇ H ₄ O ₃	>	582	MgC ₁₄ H ₁₀ O ₈
BeC ₁₂ H ₁₀ O ₈ S ₂	>	1	MgC ₁₆ H ₁₄ O ₈
BeC ₁₄ H ₁₄ O ₈ S ₂	>	1	MgC ₁₆ H ₁₈ O ₈ Se ₂
Mg (OH) ₂	>	583	MgC ₁₈ H ₁₄ O ₄
MgF ₂	>	1	MgC ₂₀ H ₁₄ O ₈ S ₂
MgCl ₂	>	584, 585	MgC ₂₄ H ₄₆ O ₄
MgBr ₂	>	586	MgC ₂₈ H ₁₈ O ₆ S ₂
MgI ₂	>	587	MgC ₂₈ H ₂₈ N ₆ O ₆ S ₂
Mg (ClO ₃) ₂	>	588	MgC ₂₈ H ₃₄ O ₄
Mg (BrO ₃) ₂	>	1	MgC ₃₂ H ₆₂ O ₄
Mg (IO ₃) ₂	>	589	MgC ₃₆ H ₆₆ O ₄
Mg ₂ GeO ₄	>	1	MgC ₃₆ H ₇₀ O ₄
Mg (NO ₂) ₂	>	590	MgC ₄₈ H ₉₄ O ₄
Mg (NO ₃) ₂	>	591	Mg (C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂
Mg ₂ P ₂ O ₈	>	1	Mg (C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂
MgH ₂ P ₂ O ₈	>	1	MgRO ₃ S
MgSO ₃	>	592	CaO
MgSO ₄	>	593	Ca (OH) ₂
MgS ₂ O ₈	>	594	CaF ₂
MgCrO ₄	>	1	CaCl ₂
MgSeO ₄	>	595	CaBr ₂
MgSiF ₆	>	596	CaI ₂
MgPt (CN) ₄	>	597	Ca (ClO ₃) ₂
MgCd ₂ Cl ₈	>	598	Ca (IO ₃) ₂
Mg ₃ La ₂ (NO ₃) ₁₂	>	599	CaB ₂ O ₄
Mg ₃ Ce ₂ (NO ₃) ₁₂	>	600	CaCO ₃
Mg ₃ Nd (NO ₃) ₁₂	>	601	CaN ₆
MgC ₂ O ₄	>	1	Ca (NO ₂) ₂
MgC ₂ H ₂ O ₄	>	602	Ca (NO ₃) ₃
MgC ₄ H ₄ O ₄	>	1	CaHPO ₄
MgC ₄ H ₄ O ₅	>	603	Ca ₃ (PO ₄) ₂
MgC ₄ H ₄ O ₆	>	I, 604	Ca ₃ (AsO ₄) ₂
MgC ₄ H ₈ O ₄	>	605	CaHAsO ₄

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	606	CaSO ₃	H ₂ O	1, 638
>	607	CaSO ₄	>	639--643
>	1	CaS ₂ O ₆	>	644
>	1	CaCrO ₄	>	645
>	608	CaSeO ₄	>	646
>	609	CaWO ₄	>	1
>	610	CaSiF ₆	>	1
>	1	Ca ₂ Fe(CN) ₆	>	647
>	1	CaBr ₂ · 2Hg(CN) ₂	>	1
>	1	CaCH ₂ O ₆ S ₂	>	1
>	611	CaC ₂ O ₄	>	648
>	1	CaC ₂ H ₂ O ₄	>	649
>	612	CaC ₃ H ₂ O ₄	>	650
>	613	CaC ₃ H ₇ O ₆ P	>	1, 652--654
>	614	CaC ₄ H ₂ O ₄	>	1, 655
>	1	CaC ₄ H ₄ O ₄	>	1, 656, 657
>	1	CaC ₄ H ₄ O ₅	>	658--660
>	615	CaC ₄ H ₄ O ₆	>	661--663
>	616	CaC ₄ H ₆ O ₄	>	664
>	617	CaC ₄ H ₁₂ O ₄ As ₂	>	665
>	618	CaC ₆ H ₁₀ O ₄	>	651
>	1	CaC ₆ H ₁₀ O ₆	>	1
>	1	CaC ₇ H ₂ O ₇	>	1
>	1	CaC ₇ H ₁₀ O ₄	>	1
>	619	CaC ₈ H ₆ O ₈	>	1
>	620	CaC ₈ H ₁₀ O ₁₀	>	666
>	621, 622	CaC ₈ H ₁₄ O ₄	>	667, 668
>	1, 623	CaC ₁₀ H ₆ NO ₉ S ₃	>	1
>	1, 624--626	CaC ₁₀ H ₇ NO ₆ S ₂	>	1
>	627	CaC ₁₀ H ₁₄ O ₆	>	669
>	628	CaC ₁₀ H ₁₄ N ₂ O ₈	>	670
>	1, 629	CaC ₁₀ H ₁₈ O ₄	>	671--674
>	630	CaC ₁₂ H ₈ O ₈ S ₂ Cl ₂	>	675
>	631	CaC ₁₂ H ₁₀ O ₆ S ₂	>	676
>	1, 632	Ca ₃ C ₁₂ H ₁₀ O ₁₄	>	1
>	1	CaC ₁₂ H ₂₂ O ₄	>	677--681
>	633, 634	CaC ₁₂ H ₂₂ O ₁₄	>	682
>	635--637	CaC ₁₄ H ₁₆ O ₈ S ₂	>	1
>	1	CaC ₁₄ H ₁₈ O ₄ Cl ₂	>	1
>	1	CaC ₁₄ H ₁₈ O ₄ Br ₂	>	1
>	1	CaC ₁₄ H ₈ O ₄ I ₂	>	1
>	1	CaC ₁₄ H ₈ N ₂ O ₈	>	1

Component A	Component B	Table No.	Component A
$\text{CaC}_{14}\text{H}_{10}\text{O}_4$	H_2O	1, 683	$\text{ZnTi}(\text{CN})_2$
$\text{CaC}_{14}\text{H}_{10}\text{O}_6$	»	1	$\text{ZnTi}_2(\text{SO}_4)_2$
$\text{CaC}_{17}\text{H}_{26}\text{O}_4$	»	684	$\text{ZnCl}_2 \cdot 2(\text{NH}_2)_2\text{CS}$
$\text{CaC}_{16}\text{H}_{14}\text{O}_6$	»	1	ZnC_2O_4
$\text{CaC}_{16}\text{H}_{14}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_2\text{H}_2\text{O}_4$
$\text{CaC}_{16}\text{H}_{20}\text{O}_4$	»	685, 686	$\text{ZnC}_4\text{H}_2\text{O}_4$
$\text{CaC}_{18}\text{H}_{14}\text{O}_4$	»	1, 687	$\text{ZnC}_4\text{H}_4\text{O}_6$
$\text{CaC}_{18}\text{H}_{34}\text{O}_4$	»	688	$\text{ZnC}_4\text{H}_6\text{O}_4$
$\text{CaC}_{20}\text{H}_{12}\text{O}_6\text{S}_2\text{Cl}_2$	»	1	$\text{ZnC}_4\text{H}_{12}\text{As}_2\text{O}_4$
$\text{CaC}_{20}\text{H}_{14}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{16}\text{H}_7\text{NO}_6\text{S}_2$
$\text{CaC}_{20}\text{H}_{26}\text{O}_6\text{S}_2$	»	689	$\text{ZnC}_{12}\text{H}_{40}\text{O}_6\text{S}_2$
$\text{CaC}_{20}\text{H}_{42}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{12}\text{H}_{10}\text{O}_8\text{S}_2$
$\text{CaC}_{24}\text{H}_6\text{O}_4$	»	690	$\text{ZnC}_{12}\text{H}_{10}\text{N}_4\text{O}_4$
$\text{CaC}_{24}\text{H}_{30}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{12}\text{H}_{22}\text{O}_{14}$
$\text{CaC}_{26}\text{H}_{12}\text{O}_{10}\text{S}_2\text{Cl}_2$	»	1	$\text{ZnC}_{14}\text{H}_8\text{O}_4\text{Cl}_2$
$\text{CaC}_{28}\text{H}_{14}\text{O}_{10}\text{S}_2$	»	1	$\text{ZnC}_{14}\text{H}_8\text{N}_2\text{O}_8$
$\text{CaC}_{28}\text{H}_{16}\text{O}_7\text{S}_2\text{Cl}_2$	»	1	$\text{ZnC}_{14}\text{H}_{10}\text{O}_4$
$\text{CaC}_{28}\text{H}_{18}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{14}\text{H}_{10}\text{O}_6$
$\text{CaC}_{28}\text{H}_{28}\text{N}_6\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{16}\text{H}_{15}\text{O}_6$
$\text{CaC}_{28}\text{H}_{38}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{18}\text{H}_{14}\text{O}_4$
$\text{CaC}_{32}\text{H}_{62}\text{O}_4$	»	1, 691	$\text{ZnC}_{20}\text{H}_{12}\text{O}_6\text{S}_2\text{Cl}_2$
$\text{CaC}_{32}\text{H}_{66}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{20}\text{H}_{14}\text{O}_6\text{S}_2$
$\text{CaC}_{36}\text{H}_{66}\text{O}_4$	»	1, 692	$\text{ZnC}_{26}\text{H}_{14}\text{O}_8\text{S}_2$
$\text{CaC}_{36}\text{H}_{70}\text{O}_4$	»	1, 693	$\text{ZnC}_{28}\text{H}_{18}\text{O}_6\text{S}_2$
$\text{CaC}_{36}\text{H}_{74}\text{O}_6\text{S}_2$	»	1	$\text{ZnC}_{28}\text{H}_{28}\text{N}_6\text{O}_6\text{S}_2$
$\text{Ca}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O})_6(\text{ClO}_4)_2$	»	1	$\text{Zn}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O})_6(\text{ClO}_4)_2$
$\text{Ca}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O})_6(\text{BF}_4)_2$	»	1	$\text{Zn}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O})_6(\text{BF}_4)_2$
CaRO_4P	»	694	SrO
ZnO	»	1	$\text{Sr}(\text{OH})_2$
ZnF_2	»	1	SrF_2
ZnCl_2	»	695	SrCl_2
ZnBr_2	»	696	SrBr_2
ZnI_2	»	697	SrI_2
$\text{Zn}(\text{CN})_2$	»	1	$\text{Sr}(\text{ClO}_3)_2$
$\text{Zn}(\text{CNS})_2$	»	1	$\text{Sr}(\text{BrO}_3)_2$
$\text{Zn}(\text{ClO}_3)_2$	»	698	$\text{Sr}(\text{IO}_3)_2$
$\text{Zn}(\text{IO}_3)_2$	»	1	SrCO_3
ZnCO_3	»	1	SrN_6
$\text{Zn}(\text{NO}_3)_2$	»	699-700	$\text{Sr}(\text{NO}_2)_2$
ZnSO_4	»	1, 701, 702	$\text{Sr}(\text{NO}_3)_2$
$\text{ZnHg}(\text{CNS})_4$	»	1	SrSO_4
$\text{Zn}_2\text{La}_2(\text{NO}_3)_{12}$	»	1	SrS_2O_3

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	703	SrS ₂ O ₆	H ₂ O	727
»	1	SrS ₄ O ₆	»	728
»	1	SrCrO ₄	»	729
»	1, 704	SrMoO ₄	»	1
»	705	SrW ₂ O ₇	»	1
»	1	Sr (MnO ₄) ₂	»	1
»	707	SrPO ₃ F	»	1
»	1	SrI ₂ · Hg(CN) ₂	»	1
»	706	SrCH ₂ O ₆ S ₂	»	1
»	1	SrC ₂ O ₄	»	1, 730, 731
»	708	SrC ₂ H ₂ O ₄	»	732, 733
»	1	SrC ₂ H ₅ O ₅ P	»	1
»	1	SrC ₃ H ₂ O ₄	»	734
»	1	SrC ₃ H ₇ O ₆ P	»	1, 735
»	1	SrC ₄ H ₂ O ₄	»	1
»	1	SrC ₄ H ₄ O ₄	»	1, 736
»	1, 709	SrC ₄ H ₄ O ₅	»	737, 738
»	1	SrC ₄ H ₄ O ₆	»	739, 740
»	1	SrC ₄ H ₆ O ₂	»	741
»	1	SrC ₄ H ₁₂ O ₄ As ₂	»	742
»	1	SrC ₁₂ H ₁₀ O ₄	»	743
»	1, 710	SrC ₁₄ H ₁₀ O ₄	»	744, 745
»	1	SrC ₁₄ H ₁₀ O ₆	»	1
»	1, 711	SrC ₁₈ H ₁₄ O ₄	»	1
»	1	SrC ₂₈ H ₁₂ O ₁₀ S ₂	»	746
»	1	SrC ₂₈ H ₂₈ N ₆ O ₆ S ₂	»	1
»	1	Sr (C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂	»	1
»	712	Sr (C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂	»	1
»	713	SrRO ₄ P	»	747
»	1, 714	SrRO ₆ S ₂	»	748
»	715—717	CdO	»	1
»	718, 719	Cd(OH) ₂	»	1
»	720	CdF ₂	»	1
»	1	CdCl ₂	»	749
»	1	CdBr ₂	»	750
»	1	CdI ₂	»	751
»	1	Cd(CN) ₂	»	1
»	1	Cd(CNS) ₂	»	1
»	1, 721	Cd(ClO ₃) ₂	»	752
»	722, 723	Cd(ClO ₄) ₂	»	1
»	724, 725	Cd(NO ₃) ₂	»	753
»	726	CdS	»	1

Component A	Component B	Table No.	Component A
CdSO ₄	H ₂ O	754—757	BaSO ₄
CdFe(CN) ₅ NO	»	1	BaS ₂ O ₃
CdCl ₂ · C ₂ H ₈ N ₄ S ₂	»	1	BaS ₂ O ₆
CdC ₂ O ₄	»	1	BaS ₂ O ₈
CdC ₂ H ₂ O ₄	»	758	BaS ₄ O ₆
CdC ₄ H ₂ O ₄	»	1	BaCrO ₄
CdC ₈ H ₂₀ O ₄ P ₂ S ₄	»	1	BaSeO ₄
CdC ₁₂ H ₁₀ O ₆ S ₂	»	759	BaMoO ₄
CdC ₁₂ H ₁₀ N ₄ O ₄	»	1	Ba(ReO ₄) ₂
CdC ₄ H ₈ O ₄ Cl ₂	»	1	BaSiF ₆
CdC ₄ H ₈ N ₂ O ₈	»	1	BaPO ₃ F
CdC ₄ H ₁₀ O ₄	»	1	Ba ₂ Fe(CN) ₆
CdC ₁₆ H ₁₄ O ₆	»	1	BaCdCl ₄
CdC ₁₈ H ₁₄ O ₄	»	1	BaI ₂ · Hg(CN) ₂
CdC ₂₀ H ₁₂ O ₈ S ₂	»	1	BaCHO ₂ S ₂ Cl
CdC ₂₀ H ₁₄ O ₈ S ₂	»	1, 760	BaCH ₂ O ₆ S ₂
CdC ₂₈ H ₁₂ O ₁₆ S ₄	»	1	BaCH ₃ O ₄ P
CdC ₂₈ H ₁₈ O ₆ S ₂	»	1	BaC ₂ O ₄
CdC ₂₈ H ₂₈ N ₆ O ₆ S ₂	»	1	BaC ₂ HO ₃ SCl
Cd(C ₄ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂	»	1	BaC ₂ HO ₃ SBr
Cd(C ₄ H ₁₂ N ₂ O) ₆ (BF ₄) ₂	»	1	BaC ₂ H ₂ O ₄
Ba(OH) ₂	»	761	BaC ₂ H ₂ O ₅ S
BaF ₂	»	1, 762	BaC ₂ H ₅ O ₄ P
BaCl ₂	»	763, 764	BaC ₂ H ₅ O ₅ P
BaBr ₂	»	765—767	BaC ₂ H ₉ O ₈ P ₂
BaI ₂	»	768	BaC ₃ H ₂ O ₄
Ba(CN) ₂	»	1	BaC ₃ H ₇ O ₃ SCl
Ba(CNS) ₂	»	1	BaC ₃ H ₃ O ₃ SBr
Ba(ClO ₂) ₂	»	769	BaC ₃ H ₄ O ₃ S
Ba(ClO ₃) ₂	»	770, 771	BaC ₃ H ₅ O ₄ P
Ba(BrO ₃) ₂	»	772	BaC ₃ H ₇ O ₄ P
Ba(IO ₃) ₂	»	1, 773	BaC ₃ H ₇ O ₆ P
Ba(ClO ₄) ₂	»	774	BaC ₃ H ₄ O ₄
BaCO ₃	»	775	BaC ₄ H ₄ O ₅
BaGeO ₃	»	1	BaC ₄ H ₄ O ₆
BaN ₆	»	776	BaC ₄ H ₆ O ₄
Ba(NO ₂) ₂	»	777, 778	BaC ₄ H ₆ O ₅ S
Ba(NO ₃) ₂	»	779, 780	BaC ₄ H ₆ O ₄ P
Ba ₃ (AsO ₄) ₂	»	1	BaC ₄ H ₁₂ O ₄ As
BaS	»	781	BaC ₆ H ₁₀ O ₄
Ba(HS) ₂	»	782	BaC ₆ H ₁₁ O ₆
BaSO ₃	»	1	BaC ₇ H ₁₀ O ₄

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1, 783, 784	BaC ₈ H ₁₄ O ₄	H ₂ O	805
>	1	BaC ₁₀ H ₇ NO ₉ S ₃	>	1
>	785	BaC ₁₀ H ₁₈ O ₄	>	1, 806
>	1	BaC ₁₀ H ₂₂ O ₈ S ₂	>	1, 807
>	786	BaC ₁₂ H ₈ O ₆ S ₂ I ₄	>	1
>	1, 787	BaC ₁₂ H ₈ O ₆ S ₂ Cl ₂	>	1
>	1	BaC ₁₂ H ₈ O ₆ S ₂ Br ₂	>	1
>	1	BaC ₁₂ H ₁₀ O ₆ S ₂	>	1
>	1	Ba ₃ C ₁₂ H ₁₀ O ₁₄	>	1
>	788	BaC ₁₂ H ₂₂ O ₄	>	808
>	1	BaC ₁₂ H ₂₂ O ₁₄	>	1
>	1	BaC ₁₄ H ₈ O ₄ Cl ₂	>	1
>	789	BaC ₁₄ H ₈ N ₂ O ₈	>	1
>	1	BaC ₁₄ H ₁₀ O ₄	>	1, 809
>	1	BaC ₁₄ H ₁₀ O ₆	>	1
>	1	BaC ₁₆ H ₁₄ O ₆	>	1
>	790	BaC ₁₈ H ₁₄ O ₄	>	1
>	791, 792	BaC ₂₀ H ₁₂ O ₆ S ₂ Cl ₂	>	1, 810, 811
>	1	BaC ₂₀ H ₁₄ O ₆ S ₂	>	1
>	1	BaC ₂₀ H ₁₄ O ₈ S ₃	>	1
>	793	BaC ₂₀ H ₁₄ O ₈ S ₂	>	1
>	1	BaC ₂₈ H ₁₄ O ₁₀ S ₂	>	812
>	1	BaC ₂₈ H ₁₈ O ₆ S ₂	>	813, 814
>	1	BaC ₂₈ H ₂₈ N ₆ O ₆ S ₂	>	1
>	1	Ba(C ₁₁ H ₁₃ N ₂ O) ₆ (ClO ₄) ₂	>	1
>	794	HgO	>	1
>	1	Hg(OH) ₂	>	1
>	1	HgCl	>	1, 815
>	1	HgCl ₂	>	1, 816-819
>	1	HgBr	>	1
>	1	HgBr ₂	>	820
>	1, 795	HgI	>	1
>	1, 796, 797	HgI ₂	>	1, 821
>	1, 798, 799	Hg(CN) ₂	>	1, 822
>	800, 801	Hg(CNO) ₂	>	1
>	802	Hg ₂ (ClO ₄) ₂	>	823
>	1	HgS	>	1
>	1	Hg ₂ SO ₄	>	1
>	803	Hg ₂ PO ₃ F	>	1
>	804	HgTl ₂ (CN) ₄	>	1
>	1	HgC ₂ O ₄	>	1
>	1	HgC ₂ H ₃ O ₂	>	1

Component A	Component B	Table No.	Component A
HgC ₂ H ₅ NO ₃	H ₂ O	1	La(BrO ₃) ₃
HgC ₄ H ₆ O ₄	»	1	La(JO ₃) ₃
HgC ₄ H ₉ NO ₃	»	1	La(NO ₃) ₃
HgC ₆ H ₅ NO ₃	»	1	La ₂ (SO ₄) ₃
HgC ₇ H ₇ NO ₃	»	1	La ₂ (CrO ₄) ₃
HgC ₈ H ₁₀ NO ₃	»	1	La ₂ (SeO ₄) ₃
HgC ₁₄ H ₁₀ O ₄	»	1	La ₂ (MoO ₄) ₃
HgC ₁₈ H ₁₄ O ₄	»	1	La ₂ (WO ₄) ₃
B ₂ O ₃	»	824	La ₂ Mn ₃ (NO ₃) ₁₂
BF ₃	»	1	La ₂ C ₆ O ₁₂
H ₂ B ₄ O ₇	»	1	LaC ₆ H ₉ O ₆
H ₃ BO ₃	»	825	LaC ₆ H ₉ O ₉
Al(OH) ₃	»	1	LaC ₉ H ₁₅ O ₉
AlF ₃	»	1	LaC ₁₂ H ₁₂ O ₁₈
AlCl ₃	»	826	La ₂ C ₁₂ H ₃₆ O ₂₄ P ₆
Al(ClO ₄) ₃	»	827	La(C ₁₁ H ₁₂ N ₂ O) ₆ I ₃
Al(NO ₃) ₃	»	828, 829	La(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃
Al ₂ (SO ₄) ₃	»	1, 830—832	LaRSO ₃
AlTi(SO ₄) ₂	»	1, 838	Ce(IO ₃) ₃
AlC ₁₈ H ₁₀ N ₄ O ₄	»	1	Ce ₂ (SO ₄) ₃
AlC ₄₂ H ₄₂ N ₉ O ₉ S ₃	»	1	Ce ₂ (SeO ₄) ₃
Al(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃	»	1	CeC ₃ H ₃ O ₆
Al(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₃	»	1	CeC ₆ H ₉ O ₆
Ga ₂ (SeO ₄) ₃	»	1	CeC ₆ H ₉ O ₉
Y ₂ O ₃	»	1	Ce ₂ C ₆ O ₁₂
YCl ₃	»	834, 835	CeC ₉ H ₁₅ O ₆
YBr ₃	»	836	CeC ₁₂ H ₂₁ O ₆
Y(IO ₃) ₃	»	1	Ce ₂ C ₁₂ H ₃₆ O ₂₄ P ₆
Y(NO ₃) ₃	»	837	CeC ₄₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃
Y ₂ (SO ₄) ₃	»	1, 838	CeC ₁₈ H ₁₂ N ₃ O ₁₅ S ₃
YC ₆ H ₉ O ₆	»	1	Ce(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃
YC ₆ H ₉ O ₉	»	1	Pr ₂ O ₃
YC ₆ H ₁₂	»	1	PrCl ₃
YC ₆ H ₁₅ O ₉	»	1	Pr(BrO ₃) ₃
Y ₂ C ₁₂ H ₃₆ O ₂₄ P ₆	»	1, 839	Pr(NO ₃) ₃
YC ₄₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃	»	1	Pr ₂ (SO ₄) ₃
YC ₁₈ H ₁₂ N ₃ O ₁₅ S ₃	»	1	Pr ₂ (SeO ₄) ₃
YC ₁₈ H ₁₅ O ₉ S ₃	»	1	Pr ₂ (CrO ₄) ₃
Y(C ₁₁ H ₁₂ N ₂ O) ₆ I ₃	»	1	Pr ₂ (MoO ₄) ₃
Y(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃	»	1	Pr ₂ (WO ₄) ₃
In(IO ₃) ₃	»	1	Pr ₂ Me ₃ (NO ₃) ₁₅
La ₂ O ₃	»	1	Pr ₂ Mn ₃ (NO ₃) ₁₂

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	840	Pr(RSO ₃) ₃	H ₂ O	859
>	1	PrC ₄ H ₈ O ₄	>	1
>	841	Pr ₂ C ₆ O ₁₂	>	1
>	842	Pr ₂ C ₆ H ₉ O ₉	>	1
>	1	PrC ₉ H ₁₅ O ₉	>	1
>	843	Pr ₂ C ₁₂ H ₃₆ O ₂₄ P ₆	>	1
>	1	Nd ₂ O ₃	>	1
>	1	NdCl ₃	>	860
>	1	Nd(BrO ₃) ₃	>	861
>	1	Nd(NO ₃) ₃	>	1, 862
>	1	Nd ₂ Me ₃ (NO ₃) ₁₅	>	863
>	1	Nd ₂ (SO ₄) ₃	>	864
>	1	Nd ₂ (SeO ₄) ₃	>	865
>	1	Nd ₂ (CrO ₄) ₃	>	1
>	1	Nd ₂ (MoO ₄) ₃	>	1
>	1	Nd ₂ (WO ₄) ₃	>	866
>	1	Nd ₂ C ₆ O ₁₂	>	1
>	844	NdC ₆ H ₉ O ₆	>	1
>	1	NdC ₆ H ₉ O ₉	>	1
>	845, 846	NdC ₉ H ₁₅ O ₉	>	1
>	847	Nd ₂ C ₁₂ H ₃₆ P ₆ O ₂₄	>	1
>	848	NdC ₁₈ H ₉ N ₃ O ₅ S ₃ Br ₃	>	1
>	849	NdC ₁₈ H ₁₂ N ₃ O ₁₅ S ₃	>	1
>	1	Nd(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃	>	867
>	1	Di ₂ (SO ₄) ₃	>	868
>	850	DIRSO ₃	>	869
>	851, 852	SmCl ₃	>	870
>	1	Sm(BrO ₃) ₃	>	871
>	1	Sm ₂ (SO ₄) ₃	>	1
>	1	Sm(CrO ₄) ₃	>	1
>	1	Sm ₂ C ₆ O ₁₂	>	1
>	1	SmC ₆ H ₉ O ₃	>	1
>	1	SmC ₆ H ₉ O ₆	>	1
>	853	SmC ₉ H ₁₅ O ₉	>	1
>	854	Sm ₂ C ₁₂ H ₃₆ O ₂₄ P ₆	>	1
>	857	SmC ₁₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃	>	1
>	858	SmC ₁₈ H ₁₂ N ₃ O ₁₅ S ₃	>	1
>	1	Eu ₂ (SO ₄) ₃	>	1
>	1	Gd(BrO ₃) ₃	>	872
>	1	Gd ₂ (SO ₄) ₃	>	1, 873
>	855	GdC ₄ H ₉ O ₄	>	1
>	856	GdC ₆ H ₉ O ₉	>	1

Component A	Component B	Table No.	Component A
GdC ₉ H ₁₅ O ₉	H ₂ O	875	Tl ₂ Cr ₃ O ₁₀
Gd ₂ C ₁₂ H ₁₈ O ₂₁ P ₆	>	1, 874	Tl ₂ SeO ₄
GdC ₁₈ H ₁₈ N ₃ O ₁₅ S ₃	>	1	TlReO ₄
GdC ₁₈ H ₁₂ N ₃ O ₁₅ S ₃	>	1	Tl ₄ Fe(CN) ₆
Tb(BrO ₃) ₃	>	876	Tl ₃ Co(CN) ₆
Tb ₂ (SO ₄) ₃	>	1	TlV(SO ₄) ₂
TbC ₄ H ₁₂ O ₈ P ₂	>	877	TlCr(SO ₄) ₂
Dy ₂ (SO ₄) ₃	>	1	TlFe(SO ₄) ₂
Dy ₂ C ₁₂ H ₁₈ O ₂₄ P ₆	>	878	Tl ₃ Ni(SO ₄) ₂
Ho ₂ (SO ₄) ₃	>	1	Tl ₂ PtCl ₆
Er ₂ O ₃	>	1	Tl ₄ Th ₄ (SO ₄) ₁₄
Er ₂ (SO ₄) ₃	>	1	Tl ₂ CHO ₆ S ₂ Cl
Er ₂ C ₁₂ H ₁₈ O ₂₄ P ₆	>	879	Tl ₂ CH ₂ O ₆ S ₂
ErC ₁₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃	>	1	Tl ₂ C ₂ O ₄
TuC ₁₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃	>	880	TlC ₆ H ₂ N ₃ O ₇
Yb ₂ (SO ₄) ₃	>	881	TlC ₁₆ H ₂₄ O ₂
Yb ₂ C ₁₂ H ₁₈ O ₂₄ P ₆	>	1, 882	TlC ₁₈ H ₂₂ O ₂
YbC ₁₈ H ₉ N ₃ O ₁₅ S ₃ Br ₃	>	1	TlC ₁₈ H ₃₅ O ₂
Lu ₂ (SO ₄) ₃	>	1	H ₈ SiW ₁₂ O ₄₂
Me редкоз. (SO ₄) ₃	>	883	SiO ₂ ·12WO ₃ (C ₂₁ H ₂₂ NO ₄) ₂
TiOH	>	884	GeO ₂
TiF	>	1	GeS
TiCl	>	885—888	GeS ₂
TiBr	>	889	GeTeF ₆
TiI	>	1, 890, 891	Zr(NO ₃) ₄
TiCN	>	1	Sn(OH) ₂
TiCNS	>	892	SnCl ₂
TiClO ₃	>	1, 893	SnI ₂
TiBrO ₃	>	1	SnSO ₄
TiIO ₃	>	1	SnR ₃ F
TiClO ₄	>	1, 894	SnC ₁₂ H ₁₀ N ₄ O ₄
Tl ₂ CO ₃	>	895	H ₂ SnCl ₆ C ₁₂ H ₁₄ N ₂
TlN ₃	>	896	SnC ₂₄ H ₂₀ N ₈ O ₈
TlNO ₂	>	897	HfO ₂
TlNO ₃	>	898	PbO
TlH ₂ PO ₂	>	899	PbF ₂
Tl ₃ PO ₄	>	1	PbFCl
Tl _n V _p O _q	>	900	PbCl
Tl ₂ S	>	1	PbCl ₂
Tl ₂ SO ₃	>	1	Pb ₂ OCl ₂
Tl ₂ SO ₄	>	1, 901—905	PbBr
Tl ₂ CrO ₄	>	1	PbBr ₂

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	PbI ₂	H ₂ O	927--929
>	906	Pb(CNS) ₂	>	1
>	907	Pb(ClO ₂) ₂	>	930
>	1	Pb(ClO ₃) ₂	>	1
>	908	Pb(IO ₃) ₂	>	1, 931
>	1	Pb(ClO ₄) ₂	>	1
>	1	PbCO ₃	>	1
>	1	Pb(NO ₃) ₂	>	1, 932
>	1	PbS	>	1
>	909	PbSO ₄	>	933, 934
>	910	Pb ₂ SO ₅	>	1
>	1	PbCrO ₄	>	1
>	1	PbPO ₃ F	>	1
>	1	Pb ₄ [Co(CN) ₆] ₂	>	1
>	911	PbSiF ₆	>	935
>	912	Pb ₄ [Fe(CN) ₆] ₂ (NO ₃) ₂	>	1
>	913	Pb ₄ [Co(CN) ₆] ₂ (NO ₃) ₂	>	1
>	914	PbCH ₂ O ₆ S ₂	>	1
>	1	PbC ₂ O ₄	>	1
>	1	PbC ₄ H ₂ O ₄	>	1
>	1, 915	PbC ₄ H ₄ O ₄	>	1, 936
>	1	PbC ₄ H ₄ O ₅	>	1, 937
>	1	PbC ₄ H ₄ O ₆	>	938, 939
>	916	PbC ₄ H ₆ O ₄	>	940
>	1	PbC ₇ H ₁₀ O ₄	>	1
>	1	PbC ₁₀ H ₆ S ₂ O ₆	>	1, 941, 942
>	1	PbC ₁₂ H ₆ O ₆ S ₂ I ₄	>	1
>	917	PbC ₁₂ H ₈ O ₆ S ₂ Cl ₂	>	1
>	1	PbC ₁₂ H ₁₀ O ₁₄	>	1
>	918	PbC ₁₂ H ₁₀ N ₄ O ₄	>	1
>	1	PbC ₁₂ H ₂₂ O ₁₄	>	1
>	1	PbC ₁₄ H ₈ R ₂ O ₄	>	943
>	1	PbC ₁₄ H ₁₀ C ₄	>	944
>	919	PbC ₁₈ H ₁₄ O ₄	>	1
>	1	PbC ₂₀ H ₁₂ O ₆ S ₂ Cl ₂	>	1
>	1, 920	PbC ₂₀ H ₁₄ O ₆ S ₂	>	1
>	921	PbC ₂₀ H ₁₄ O ₈ S ₂	>	1
>	1	PbC ₂₀ H ₁₄ N ₂ O ₆ S ₂	>	1
>	922--924	PbC ₂₈ H ₁₈ O ₆ S ₂	>	1
>	1	PbC ₂₈ H ₂₈ N ₆ O ₆ S ₂	>	1
>	1	Pb(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂	>	1
>	925, 926	Pb(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂	>	1

Component A	Component B	Table No.	Component A
PbFR ₃	H ₂ O	945	Cr(NH ₃) ₆ X ₃
NH ₃	>	946—952	Cr(CN ₂ H ₄ O) ₆ (ReO ₄) ₃
N ₂ O	>	953—955	Cr(CN ₂ H ₄ O) ₆ (SO ₃ F) ₃
NO	>	956	Cr(CN ₂ H ₄ O) ₆ (MnO ₄) ₃
HNO ₃	>	957	Cr(CN ₂ H ₄ O) ₆ X ₃
N ₂ H ₄ NO ₃	>	958	CrC ₄₂ H ₄₂ N ₆ O ₉ S ₃
N ₂ H ₄ · HNO ₃	>	959	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ (CNS) ₃
N ₂ H ₄ · H ₂ SO ₄	>	960	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₃) ₃
(N ₂ H ₄) ₂ · H ₂ SO ₄	>	961	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃
H ₃ PO ₄	>	1, 962, 963	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₃
H ₄ P ₂ O ₇	>	964	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ (Cr ₂ O ₇) ₃
V ₂ O ₅	>	1	Cr(C ₁₁ H ₁₂ N ₂ O) ₆ · Fe(CN) ₆
As ₂ O ₃	>	1, 965, 966	Gr(C ₁₁ H ₁₂ N ₂ O) ₆
As ₂ O ₅	>	967	(C ₆ H ₂ N ₃ O ₇) ₃
AsI ₃	>	1	H ₂ Se
As ₂ S ₃	>	1	SeO ₂
As ₂ S ₅	>	1	H ₂ SeO ₃
AsC ₂ H ₇ O ₂	>	1	H ₂ SeO ₄
AsC ₁₈ H ₁₅ O ₇	>	1	SeC ₈ H ₁₀ NO ₂
SbF ₃	>	968	SeC ₁₄ H ₁₃ N ₄ O ₉
SbCl ₃	>	1, 969	MoO ₃
Sb ₂ S ₃	>	1	H ₂ TeO ₄
SbC ₁₈ H ₁₅ N ₆ O ₆	>	1	HF
BiO ₂ H	>	1	HCl
Bi ₂ S ₃	>	1	Cl ₂ O
BiC ₆ H ₉ O ₆	>	1	ClO ₂
BiC ₁₈ H ₁₅ N ₆ O ₆	>	1	HClO ₄
H ₂ S	>	970—972	HBr
SO ₂	>	1, 973—981	HI
H ₂ SO ₄	>	982	HIO ₃
CrO ₃	>	983, 984	HCN
Cr(ClO ₄) ₃	>	985	ICN
CrSO ₄	>	1	Mn(OH) ₂
Cr ₂ (SO ₄) ₃	>	1	MnF ₂
CrTe(SO ₄) ₂	>	1	MnCl ₂
Cr(NH ₃) ₄ H ₂ OCl ₃	>	1	MnBr ₂
Cr(NH ₃) ₅ Cl(NO ₃) ₂	>	1	Mn(NO ₃) ₂
Cr(NH ₃) ₅ Cl ₃	>	1	MnCO ₃
Cr(NH ₃) ₆ (NO ₃) ₃	>	1	MnSO ₄
Cr(NH ₃) ₆ (BF ₄) ₃	>	1	MnSiF ₆
Cr(NH ₃) ₆ (MnO ₄) ₃	>	1	Mn(H ₂ PO ₂) ₂
Cr(NH ₃) ₆ (ReO ₄) ₃	>	1	MnS
			MnC ₂ O ₄

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	986	MnC ₄ H ₂ O ₄	H ₂ O	1
>	1	MnC ₄ H ₆ O ₄	>	1
>	1	MnC ₁₂ H ₁₀ O ₆ S ₂	>	1012
>	1	MnC ₁₂ H ₂₂ O ₁₄	>	1
>	987	MnC ₁₄ H ₁₀ O ₄	>	1013
>	1	MnC ₁₈ H ₁₄ O ₄	>	1
>	1	MnC ₂₀ H ₁₄ O ₆ S ₂	>	1014
>	1	MnC ₂₈ H ₁₈ O ₆ S ₂	>	1
>	1	MnC ₂₈ H ₂₈ N ₆ O ₆ S ₂	>	1
>	1	Mn(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂	>	1
>	1	Mn(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂	>	1
>	1	Fe(OH) ₂	>	1
>	1	FeF ₃	>	1
>		FeCl ₂	>	1, 1015
>	988	FeCl ₃	>	1016
>	989	FeBr ₂	>	1017
>	990	Fe(IO ₃) ₃	>	1
>	991	Fe(ClO ₄) ₂	>	1018
>	1	Fe(ClO ₄) ₃	>	1019
>	1	FeCO ₃	>	1
>	992	Fe(NO ₃) ₂	>	1020
>	993	Fe(NO ₃) ₃	>	1021
>	994	FeS	>	1
>	1, 995—998	Fe ₂ S ₃	>	1
>	1, 999	FeSO ₄	>	1022, 1023
>	1000	FeC ₂ O ₄	>	1
>	1001	Fe ₃ (OH) ₂ C ₇ H ₇ O ₁₄	>	1024
>	1002	FeC ₁₂ H ₁₀ O ₆ S ₂	>	1
>	1003	FeC ₁₂ H ₁₀ N ₄ O ₄	>	1
>	1004	FeC ₂₀ H ₁₄ O ₆ S ₂	>	1
>	1005	FeC ₂₈ H ₁₈ O ₆ S ₂	>	1
>	1	FeC ₂₈ H ₂₈ N ₆ O ₆ S ₂	>	1
>	1	FeC ₄₂ H ₄₂ N ₆ O ₆ S ₃	>	1
>	1, 1006	Fe(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₃	>	1
>	1007	Fe(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₃	>	1
>	1008	Fe(C ₁₁ H ₁₂ N ₂ O) ₆ (Cr ₂ O ₇) ₃	>	1
>	1, 1009	Co(OH) ₃	>	1
>	1	CoF ₂	>	1
>	1010	CoCl ₂	>	1025
>	1	CoBr ₂	>	1026
>	1	CoI ₂	>	1027
>	1011	Co(CNS) ₂	>	1
>	1		>	

Component A	Component B	Table No.	Component A
Co(ClO ₃) ₂	H ₂ O	1028	Co(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂
Co(IO ₃) ₂	>	1029	Ni(OH) ₂
Co(ClO ₄) ₂	>	1, 1030	NiF ₂
Co(NO ₂) ₂	>	1031	NiCl ₂
Co(NO ₃) ₂	>	1, 1032, 1033	NiBr ₂
CoFe(CN) ₅ NO	>	1	NiL ₂
Co(HS) ₂	>	1	Ni(CN) ₂
CoH ₂ SO	>	1	Ni(CNS) ₂
CoSO ₄	>	1034, 1035	Ni(ClO ₃) ₂
Co(NH ₃) ₅ Cl ₃	>	1	Ni(BrO ₃) ₂
Co(NH ₃) ₅ H ₂ OCl ₃	>	1	Ni(IO ₃) ₂
Co(NH ₃) ₆ Cl ₃	>	1	Ni(ClO ₄) ₂
Co(NH ₃) ₅ CNSI ₂	>	1	NiCO ₃
Co(NH ₃) ₅ CNS(NO ₃) ₂	>	1	Ni(NO ₃) ₂
Co(NH ₃) ₆ Fe(CN) ₆	>	1	NiFe(CN) ₅ NO
Co(NH ₃) ₆ Co(CN) ₆	>	1	NiSO ₄
Co(NH ₃) ₆ (ReO ₄) ₃	>	1	NiC ₂ O ₄
Co(NH ₃) ₆ [Co(NH ₃) ₂ (NO ₂) ₂ C ₂ O ₄] ₃	>	1	NiC ₄ H ₂ O ₄
Co(NH ₃) ₆ [Co(NH ₃) ₂ (NO ₂) ₂] ₃	>	1	NiC ₆ H ₈ O ₆
CoCH ₂ O ₆ S ₂	>	1	NiC ₆ H ₂ ₄ N ₆ O ₃ S ₂
CoC ₂ O ₄	>	1	NiC ₇ H ₁₀ O ₄
CoC ₃ H ₂ O ₄	>	1	NiC ₁₀ H ₇ NO ₆ S ₂
CoC ₄ H ₂ O ₄	>	1	NiC ₁₂ H ₁₀ O ₆ S ₂
CoC ₄ H ₄ O ₅	>	1	Ni ₃ C ₁₂ H ₁₀ O ₄
CoC ₆ H ₈ O ₇	>	1	NiC ₁₂ H ₁₀ N ₄ O ₄
CoC ₁₀ H ₁₀ NO ₆ S ₂	>	1	NiC ₁₂ H ₂₂ O ₁₄
Co ₃ C ₁₂ H ₁₀ O ₁₄	>	1	NiC ₁₄ H ₈ O ₄ Cl ₂
CoC ₁₂ H ₁₀ N ₄ O ₄	>	1	NiC ₁₄ H ₈ N ₂ O ₈
CoC ₁₂ H ₁₀ O ₆ S ₂	>	1036	NiC ₁₄ H ₁₀ O ₄
CoC ₁₄ H ₈ O ₄ Cl ₂	>	1	NiC ₁₄ H ₁₀ O ₆
CoC ₁₄ H ₈ N ₂ O ₈	>	1	NiC ₁₆ H ₁₈ O ₆ S ₂
CoC ₁₄ H ₁₀ O ₄	>	1	NiC ₁₆ H ₁₈ O ₆ Se ₂
CoC ₁₄ H ₁₀ O ₆	>	1	NiC ₁₈ H ₁₄ O ₄
CoC ₁₆ H ₁₄ O ₆	>	1	NiC ₂₀ H ₁₂ O ₄ S ₂ Cl ₂
CoC ₁₆ H ₁₈ O ₆ S ₂	>	1	NiC ₂₀ H ₁₂ O ₆ S ₂
CoC ₁₆ H ₁₈ O ₆ Se ₂	>	1	NiC ₂₀ H ₁₄ O ₆ S ₂
CoC ₁₈ H ₁₄ O ₄	>	1	NiC ₂₈ H ₁₈ O ₆ S ₂
CoC ₂₆ H ₁₂ O ₆ S ₂ Cl ₂	>	1	NiC ₂₈ H ₂₈ N ₆ O ₆ S ₂
CoC ₂₆ H ₁₄ O ₆ S ₂	>	1, 1037	Ni(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂
CoC ₂₆ H ₁₈ O ₆ S ₂	>	1	Ni(C ₁₁ H ₁₂ N ₂ O) ₆ (BF ₄) ₂
CoC ₂₈ H ₂₈ N ₆ O ₆ S ₂	>	1	RuMe ₂ NOCl ₅
Co(C ₁₁ H ₁₂ N ₂ O) ₆ (ClO ₄) ₂	>	1	Rh(NH ₃) ₅ Cl ₃

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	Rh(NH ₃) ₆ (NO ₃) ₃	H ₂ O	1
>	1	Rh(NH ₃) ₆ Cl ₃	>	1
>	1038	Rh ₂ (NH ₃) ₁₂ (SO ₄) ₃	>	1
>	1039	OsO ₄	>	1055
>	1040	IrO ₂	>	1
>	1011	Ir(NH ₃) ₅ X	>	1056
>	1	IrRH ₂ Γa. . .	>	1057
>	1	PtCl ₄	>	1
>	1042	PtBr ₄	>	1
>	1	PtC ₁₀ H ₁₄ O ₄	>	1
>	1043	ThF ₄	>	1
>	1044	Th(NO ₃) ₄	>	1058
>	1	Th(SO ₄) ₂	>	1, 1059, 1060
>	1045	Th(SeO ₄) ₂	>	1
>	1	Th(OH) ₂ C ₄ H ₄ O ₄ Cl ₂	>	1061
>	1046-1048	ThC ₂₄ H ₈ N ₁₂ O ₂₈	>	1
>	1	ThC ₂₄ H ₁₆ N ₄ O ₂₀ S ₄	>	1
>	1	ThC ₃₆ H ₃₂ N ₄ O ₁₂	>	1
>	1	Th(C ₁₁ H ₁₂ N ₂ O) ₈ (ClO ₄) ₄	>	1
>	1049	U(SO ₄) ₂	>	1062
>	1	UC ₂₈ H ₂₈ N ₈ O ₈ S ₂	>	1
>	1	UO ₂ Cl ₂	>	1
>	1050	UO ₂ (IO ₃) ₂	>	1063
>	1	UO ₂ (NO ₃) ₂	>	1064-1066
>	1	UO ₂ C ₂ O ₄	>	1, 1067
>	1	UO ₂ C ₂ H ₂ O ₄	>	1
>	1	UO ₂ C ₄ H ₆ O ₄	>	1
>	1	UO ₂ C ₆ H ₁₀ O ₄	>	1
>	1	UO ₂ C ₈ H ₁₄ O ₄	>	1
>	1	UO ₂ C ₈ H ₂₄ N ₂ Cl ₃	>	1
>	1	UO ₂ C ₁₀ H ₁₈ O ₄	>	1
>	1	UO ₂ C ₁₆ H ₄₆ N ₂ Cl ₃	>	1
>	1	UO ₂ (C ₁₁ H ₁₂ N ₂ O) ₅ (ClO ₄) ₂	>	1
>	1051	UO ₂ RF	>	1068
>	1052	PuC ₄ O ₈	>	1069
>	1053	CO	>	1070
>	1	CO ₂	>	1, 1071-1080
>	1	COS	>	1081
>	1	CF ₄	>	1082
>	1	CCl ₄	>	1, 1083, 1084
>	1054	CBr ₄	>	1
>	1	CS ₂	>	1, 1085

Component A	Component B	Table No.	Component A
CNO ₂ Cl ₃	H ₂ O	1086	C ₂ H ₄ ClBr
CHCl ₃	>	1, 1087—1089	C ₂ H ₄ Br ₂
CHBr ₃	>	1	C ₂ H ₄ O
CHNO	>	1090	C ₂ H ₄ O ₂
CH ₂ Cl ₂	>	1091	C ₂ H ₄ N ₂ O ₆
CH ₂ Br ₂	>	1, 1092, 1093	C ₂ H ₄ N ₄
CH ₂ I ₂	>	1	C ₂ H ₅ Cl
CH ₂ O	>	1094	C ₂ H ₅ Br
CH ₂ O ₂	>	1095	C ₂ H ₅ I
CH ₂ N ₂	>	1096	C ₂ H ₅ O ₅ P
CH ₃ Cl	>	1097	C ₂ H ₅ NO
CH ₃ Br	>	1098	C ₂ H ₅ NO ₂
CH ₃ I	>	1, 1099	C ₂ H ₆
CH ₃ NO	>	1100	C ₂ H ₆ O
CH ₃ NO ₂	>	1	C ₂ H ₆ O ₂
CH ₃ O ₆ S ₂ Cl	>	1	C ₂ H ₆ O ₄ S
CH ₃ O ₆ S ₂ Br	>	1	C ₂ H ₇ NO ₃ S
CH ₄	>	1101—1103	C ₂ H ₇ N ₄ O ₃ Cl
CH ₄ O	>	1104	C ₂ H ₈ NCl
CH ₄ O ₃ S	>	1105	C ₃ HO ₂ Cl ₃
CH ₄ O ₆ S ₂	>	1	C ₃ H ₂ O ₂
CH ₄ N ₂ O	>	1106—1109	C ₃ H ₄ O
CH ₄ N ₂ O · H ₃ PO ₄	>	1110	C ₃ H ₄ O ₄
CH ₄ N ₄ O ₂	>	1111	C ₃ H ₄ NO ₂ Cl ₃
CH ₅ N	>	1	C ₃ H ₅ OCl
CH ₅ N ₅ O ₂	>	1112	C ₃ H ₅ O ₂ I
C ₂ Cl ₆	>	1	C ₃ H ₅ N
C ₂ HCl ₃	>	1113	C ₃ H ₅ N ₃ O ₉
C ₂ HCl ₅	>	1	C ₃ H ₆
C ₂ HIO ₂ Cl ₃	>	1	C ₃ H ₆ Cl ₂
C ₂ H ₂	>	1, 1114	C ₃ H ₆ Br ₂
C ₂ H ₂ Cl ₂	>	1	C ₃ H ₆ O
C ₂ H ₂ Cl ₄	>	1115, 1116	C ₃ H ₆ O ₂
C ₂ H ₂ Br ₄	>	1	C ₃ H ₆ O ₂ S ₃
C ₂ H ₂ O ₄	>	1, 1117, 1118	C ₃ H ₆ O ₃ S ₃
C ₂ H ₃ Cl ₃	>	1119, 1120	C ₃ H ₆ N ₆
C ₂ H ₃ O ₂ Cl	>	1121—1123	C ₃ H ₇ Cl
C ₂ H ₃ O ₂ Cl ₃	>	1124	C ₃ H ₇ Br
C ₂ H ₃ O ₂ Br ₃	>	1125	C ₃ H ₇ I
C ₂ H ₃ N	>	1126	C ₃ H ₇ NO ₂
C ₂ H ₄	>	1, 1127, 1128	C ₃ H ₇ NO ₃
C ₂ H ₄ Cl ₂	>	1129—1131	C ₃ H ₈

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	C ₃ H ₈ O ₂	H ₂ O	1
>	1132	C ₃ H ₈ O ₃	>	1171
>	1133, 1134	C ₃ H ₉ N	>	1
>	1135	C ₃ H ₁₀ NCI	>	1
>	1136	C ₄ H ₂ N ₂ O ₄	>	1
>	1137	C ₄ H ₄ O ₄	>	1173, 1174
>	1	C ₄ H ₄ N ₂	>	1175
>	1138	C ₄ H ₄ NO ₂	>	1
>	1139	C ₄ H ₅ O ₄ Cl	>	1176
>	1	C ₄ H ₅ NO ₂	>	1177
>	1, 1140	C ₄ H ₆ O ₃	>	1178
>	1141, 1142	C ₄ H ₆ O ₄	>	1, 1179—1183
>	1143, 1144	C ₄ H ₆ O ₅	>	1, 1184
>	1145, 1146	C ₄ H ₆ O ₆	>	1185, 1186
>	1, 1147	C ₄ H ₆ N ₂ O ₂	>	1
>	1, 1148	C ₄ H ₆ N ₄ O ₃	>	1
>	1149	C ₄ H ₇ O ₂	>	1
>	1	C ₄ H ₇ O ₂ Cl ₃	>	1
>	1	C ₄ H ₇ NO ₄	>	1, 1188, 1189
>	1150	C ₄ H ₇ PO ₄	>	1
>	1151	C ₄ H ₈	>	1190
>	1152	C ₄ H ₈ O	>	1, 1191—1195
>	1153, 1154	C ₄ H ₈ O ₂	>	1, 1196—1210
>	1	C ₄ H ₈ N ₂ S	>	1
>	1155	C ₄ H ₈ N ₂ O ₂	>	1
>	1	C ₄ H ₈ N ₂ O ₃	>	1, 1211—1214
>	1156	C ₄ H ₈ N ₂ O ₄	>	1215
>	1157	C ₄ H ₉ Cl	>	1
>	1158	C ₄ H ₉ Br	>	1
>	1	C ₄ H ₉ I	>	1
>	1	C ₄ H ₉ NO ₂	>	1, 1216
>	1	C ₄ H ₁₀	>	1217
>	1, 1159—1161	C ₄ H ₁₀ O	>	1, 1218—1232
>	1	C ₄ H ₁₀ O ₄	>	1, 1233
>	1	C ₄ H ₁₁ N	>	1234
>	1162	C ₄ H ₁₂ NCI	>	1
>	1, 1163	C ₄ H ₁₂ NBr	>	1
>	1, 1164	C ₄ H ₁₂ NI	>	1
>	1, 1165	C ₄ H ₁₂ NPF ₆	>	1
>	1, 1166—1168	C ₅ H ₄ O ₂	>	1235—1237
>	1169	C ₅ H ₄ N ₄ O ₃	>	1, 1238
>	1170	C ₅ H ₅ N	>	1239, 1240

Component A	Component B	Table No.	Component A
$C_5H_5NPF_6$	H_2O	1	$C_6H_5SO_3Cl$
$C_5H_6O_4$	>	1	$C_6H_5SO_3Br$
$C_5H_8N_2$	>	1241	$C_6H_5NO_2$
$C_5H_8O_2$	>	1, 1242	$C_6H_5NO_3$
$C_5H_8O_4$	>	1, 1243—1245	$C_6H_5NO_5S$
$C_5H_8NO_4$	>	1, 1246, 1247	$C_6H_5N_2PF_6$
$C_5H_{10}O$	>	1, 1248—1266	C_6H_6
$C_5H_{10}O_2$	>	1	C_6H_6O
$C_5H_{10}NO_4Cl$	>	1267	$C_6H_6O_2$
$C_5H_{11}Br$	>	1	$C_6H_6O_3$
$C_5H_{11}N$	>	1268	$C_6H_6O_3S$
$C_5H_{11}NO_2$	>	1, 1269, 1270	$C_6H_6O_6$
$C_5H_{11}NO_2S$	>	1271	C_6H_6NCl
C_5H_{12}	>	1	$C_6H_6NO_2Cl$
$C_5H_{12}O$	>	1, 1272—1280	$C_6H_6NO_3S$
$C_5H_{12}NO_2Cl$	>	1281	$C_6H_6NO_3Si$
$C_5H_{12}NO_2Br$	>	1282	$C_6H_6N_2O_2$
$C_5H_{12}NO_2I$	>	1283	$C_6H_6N_4O_3$
$C_5H_{12}NO_6Mn$	>	1285	C_6H_7N
$C_5H_{12}NO_2AuCl_4$	>	1286	C_6H_7NO
$C_5H_{13}NO_6S$	>	1284	$C_6H_7NO_3S$
$C_5H_{13}N_2O_7Cl$	>	1	
$C_5H_{14}NCl$	>	1	$C_6H_7NO_3SBr$
$C_5H_{14}NO_5Cl$	>	1	$C_6H_7N_2O_5R$
$C_5H_{14}NO_6P$	>	1287	$C_6H_8O_7$
$C_6H_2NOClBr_2$	>	1	C_6H_8NCl
$C_6H_2N_3O_6Cl$	>	1288	$C_6H_8NO_3SR$
$C_6H_3Br_3$	>	1	$C_6H_8N_2$
$C_6H_3NO_2Br$	>	1	$C_6H_8N_2O_2S$
$C_5H_3N_3O_7$	>	1, 1289—1292	$C_6H_9NO_4S$
$C_6H_4Cl_2$	>	1, 1293	$C_6H_{10}O$
$C_6H_4O_2$	>	1	$C_6H_{10}O_4$
$C_6H_4O_5$	>	1	$C_6H_{11}NO$
$C_6H_4NO_2Cl$	>	1	$C_6H_{11}N_2O_2Br$
$C_6H_4N_2O_4$	>	1	C_6H_{12}
$C_6H_4N_2O_5$	>	1294—1299	$C_6H_{12}O$
C_6H_5F	>	1	$C_6H_{12}O_2$
C_6H_5Cl	>	1, 1300, 1301	$C_6H_{12}O_3$
C_6H_5Br	>	1	$C_6H_{12}O_6$
C_6H_5I	>	1	$C_6H_{12}N_2O_3$
C_6H_5OCl	>	1302—1304	$C_6H_{12}N_2O_7S_2$
$C_6H_5SO_3F$	>	1305	$C_6H_{12}N_4$

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1306	C ₆ H ₁₃ N	H ₂ O	1172
>	1307	C ₆ H ₁₃ NO ₂	>	1, 1408—1412
>	1308—1312	C ₆ H ₁₃ N ₂ O ₃ Br	>	1413
>	1, 1313—1315	C ₆ H ₁₄ O	>	1, 1414—1418
>	1316	C ₆ H ₁₄ O ₂	>	1419—1421
>	1	C ₆ H ₁₄ O ₆	>	1, 1422—1424
>	1, 1317—1323	C ₆ H ₁₅ SI	>	1
>	1, 1324—1330	C ₆ H ₁₅ N	>	1425—1427
>	1, 1331—1335	C ₆ H ₁₆ NCl	>	1
>	1, 1336	C ₆ H ₁₆ NBr	>	1
>	1337	C ₆ H ₁₆ NI	>	1
>	1	C ₇ H ₄ O ₃ I ₂	>	1
>	1340—1342	C ₇ H ₄ O ₆	>	1
>	1343	C ₇ H ₄ O ₇	>	1
>	1	C ₇ H ₄ NO ₄ Cl	>	1
>	1344	C ₇ H ₄ NO ₄ Br	>	1
>	1, 1345—1349	C ₄ H ₄ N ₂ O ₆	>	1,1428
>	1350	C ₄ H ₅ I	>	1429
>	1, 1351—1353	C ₇ H ₅ O ₂ F	>	1
>	1354—1356	C ₇ H ₅ O ₂ Cl	>	1, 1430—1432
>	1, 1187,	C ₇ H ₅ O ₂ Br	>	1, 1433
>	1357—1359	C ₇ H ₅ O ₂ I	>	1
>	1360, 1361	C ₇ H ₅ NO ₃	>	1, 1434—1436
>	1362	C ₇ H ₅ NO ₃ S	>	1
>	1363, 1364	C ₇ H ₅ NO ₄	>	1437—1443
>	1, 1365	C ₇ H ₅ NO ₅	>	1444
>	1366	C ₇ H ₅ N ₃ O ₆	>	1, 1445
>	1, 1367—1372	C ₇ H ₅ N ₃ O ₈	>	1446
>	1373, 1374	C ₇ H ₆ O	>	1
>	1	C ₇ H ₆ O ₂	>	1, 1447—1452
>	1375	C ₇ H ₆ O ₃	>	1, 1453—1461
>	1, 1376, 1377	C ₇ H ₆ O ₅	>	1
>	1378	C ₇ H ₇ NO	>	1
>	1379	C ₇ H ₇ NO ₂	>	1, 1462—1468
>	1380	C ₇ H ₇ NO ₃	>	1
>	1, 1381—1399	C ₇ H ₇ NO ₄	>	1
>	1, 1400—1402	C ₇ H ₇ N ₂ PF ₆	>	1
>	1403	C ₇ H ₈	>	1, 1469—1472
>	1, 1404, 1405	C ₇ H ₈ O	>	1, 1473—1479
>	1	C ₇ H ₈ O ₂	>	1480
>	1406, 1407	C ₇ H ₈ O ₃ S	>	1481, 1482
>	1	C ₇ H ₈ N ₂ S	>	1

Component A	Component B	Table No.	Component A
$C_7H_8N_4O_2$	H_2O	1	$C_8H_{10}N_2O$
$C_7H_8N_6O_7$	>	1483	$C_8H_{10}N_2O_3S$
C_7H_9N	>	1, 1484—1493	$C_8H_{10}N_4O_2$
$C_7H_9NO_2S$	>	1	$C_8H_{10}N_6O_7$
$C_7H_9N_5O_7$	>	1494	$C_8H_{11}N$
$C_7H_{10}O_4S_3$	>	1495	$C_8H_{12}N_2O$
$C_7H_{10}NCl$	>	1	$C_8H_{12}N_2O_3$
$C_7H_{10}N_4O_2S$	>	1496	$C_8H_{12}N_2S$
$C_7H_{11}NO_4S$	>	1497	$C_8H_{14}O_2$
$C_7H_{12}O$	>	1, 1498	$C_8H_{14}O_4$
$C_7H_{12}O_2$	>	1	$C_8H_{15}N_2O_2Br$
$C_7H_{12}O_4$	>	1, 1499, 1500	$C_8H_{16}O_2$
$C_7H_{14}O$	>	1, 1501—1507	$C_8H_{17}N$
$C_7H_{14}O_2$	>	1, 1508, 1509	$C_8H_{17}NO_2$
$C_7H_{14}O_3$	>	1510	C_8H_{18}
$C_7H_{14}O_6$	>	1511	$C_8H_{18}O_4S_2$
$C_7H_{15}NO_2$	>	1	$C_8H_{20}NPF_6$
C_7H_{16}	>	1	$C_9H_6O_2$
$C_7H_{16}O$	>	1, 1512, 1513	$C_9H_6O_5$
$C_7H_{16}O_4S$	>	1	$C_9H_7O_2Br$
$C_8H_4O_3$	>	1514	$C_9H_7O_5P$
$C_8H_5O_2F_3$	>	1	C_9H_7N
$C_8H_5NO_2$	>	1	$C_9H_7NO_2Cl_3$
$C_8H_5NO_6$	>	1515	$C_9H_7NO_3$
$C_8H_5N_3O_{10}$	>	1	$C_9H_8O_2$
$C_8H_6O_2$	>	1516	$C_9H_8O_3$
$C_8H_6O_3$	>	1, 1517—1519	$C_9H_8O_4$
$C_8H_6O_4$	>	1, 1338, 1339, 1520	$C_9H_9NO_3$
$C_8H_7NO_4$	>	1521, 1522	$C_9H_9NO_3I_2$
$C_8H_7N_2O_3Cl$	>	1	$C_9H_9N_3O_2S_2$
$C_8H_7N_5O_8$	>	1523	$C_9H_{10}O_2$
$C_8H_8O_2$	>	1, 1524—1530	$C_9H_{10}O_3$
$C_8H_8O_3$	>	1, 1531—1537	$C_9H_{11}NO$
C_8H_8NOCl	>	1538—1540	$C_9H_{11}NO_2$
$C_8H_8NO_2Cl_3$	>	1	$C_9H_{11}NO_3$
$C_8H_8N_2O_3$	>	1, 1541—1543	$C_9H_{11}N_3O_2S_2$
$C_8H_8N_4O_6$	>	1544	C_9H_{12}
C_8H_9NO	>	1, 1545, 1546	$C_9H_{12}N_2$
C_8H_{10}	>	1, 1547—1551	$C_9H_{12}N_4O_3S$
$C_8H_{10}SO_3$	>	1	$C_9H_{12}N_6O_7$
$C_8H_{10}NO_2S$	>	1	$C_9H_{13}N$
			$C_9H_{14}O$

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1552—1554	C ₉ H ₁₆ O ₄	H ₂ O	1, 1588
>	1555—1557	C ₉ H ₁₇ NO ₃	>	1
>	1, 1558—1561	C ₉ H ₁₈ O	>	1589, 1590
>	1	C ₉ H ₁₈ O ₂	>	1
>	1, 1562	C ₉ H ₂₀ O ₄ S ₂	>	1
>	1563	C ₁₀ H ₁₈	>	1
>	1	C ₁₀ H ₈ O	>	1591—1593
>	1564	C ₁₀ H ₈ O ₄	>	1
>	1565, 1566	C ₁₀ H ₉ NO	>	1594
>	1	C ₁₀ H ₉ NO ₃ S	>	1595, 1596
>	1	C ₁₀ H ₉ NO ₄ S	>	1
>	1, 1567	C ₁₀ H ₉ NO ₆ S ₂	>	1
>	1	C ₁₀ H ₁₀ O ₃	>	1
>	1	C ₁₀ H ₁₀ N ₆ O ₈	>	1597
>	1, 1568	C ₁₀ H ₁₁ NO ₃	>	1
>	1	C ₁₀ H ₁₂	>	1598
>	1	C ₁₀ H ₁₂ O ₂	>	1
>	1	C ₁₀ H ₁₂ O ₈	>	1599
>	1	C ₁₀ H ₁₂ NO ₆	>	1600
>	1	C ₁₀ H ₁₂ N ₂ O ₁ S	>	1601
>	1	C ₁₀ H ₁₂ N ₄ O ₆	>	1
>	1569	C ₁₀ H ₁₃ NO ₂	>	1
>	1570	C ₁₀ H ₁₄ O	>	1, 1602, 1603
>	1	C ₁₀ H ₁₄ N ₂	>	1604
>	1, 1571—1573	C ₁₀ H ₁₆ O	>	1, 1605, 1606
>	1	C ₁₀ H ₁₆ O ₄	>	1
>	1	C ₁₀ H ₁₈ O	>	1, 1607
>	1	C ₁₀ H ₁₈ O ₄	>	1
>	1574	C ₁₀ H ₁₉ NO ₃	>	1
>	1575	C ₁₀ H ₂₀ O	>	1
>	1, 1576, 1577	C ₁₀ H ₂₀ O ₂	>	1, 1608
>	1	C ₁₀ H ₂₀ O ₄	>	1609
>	1578	C ₁₁ H ₈ O ₂	>	1
>	1, 1579, 1580	C ₁₁ H ₁₀ O ₂	>	1610
>	1, 1581	C ₁₁ H ₁₀ O ₄	>	1
>	1582	C ₁₁ H ₁₁ N ₃ O ₂ S	>	1611
>	1, 1583	C ₁₁ H ₁₁ N ₃ O ₃ S ₂	>	1612
>	1584	C ₁₁ H ₁₂ O ₃	>	1
>	1585	C ₁₁ H ₁₂ NI	>	1
>	1	C ₁₁ H ₁₂ N ₂ O	>	1, 1613, 1614
>	1586	C ₁₁ H ₁₂ N ₂ O ₂	>	1, 1615
>	1587	C ₁₁ H ₁₃ N ₃ O ₃ S ₂	>	1616

Component A	Component B	Table No.	Component A
$C_{11}H_{20}O_4$	H ₂ O	1	$C_{15}H_{22}NO_2Cl$
$C_{11}H_{21}NO_3$	>	1	$C_{15}H_{26}N_2$
$C_{11}H_{22}O_2$	>	1	$C_{15}H_{28}N_2O_4S$
$C_{12}H_{10}$	>	1	$C_{16}H_{13}N_3SCL$
$C_{12}H_{10}O_4$	>	1	$C_{16}H_{19}NO_3$
$C_{12}H_{10}N_2$	>	1	$C_{16}H_{22}NO_3Br$
$C_{12}H_{10}N_2O$	>	1	$C_{17}H_{17}NO_2$
$C_{12}H_{10}N_2O_3S$	>	1617	$C_{17}H_{18}NO_2Cl$
$C_{12}H_{11}N$	>	1618, 1619	$C_{17}H_{19}N$
$C_{12}H_{11}N_3$	>	1	$C_{17}H_{19}NO_3$
$C_{12}H_{13}NO$	>	1620	$C_{17}H_{20}N_2O$
$C_{12}H_{16}O$	>	1621	$C_{17}H_{21}NO_4$
$C_{12}H_{16}O_2$	>	1	$C_{17}H_{22}NO_4Cl$
$C_{12}H_{22}O_4$	>	1	$C_{18}H_{19}N_8Cl$
$C_{12}H_{17}NO_4$	>	1622	$C_{18}H_{21}NO_3$
$C_{12}H_{22}O_4$	>	1	$C_{18}H_{22}NO_3Cl$
$C_{12}H_{22}O_{14}$	>	1623—1634	$C_{18}H_{23}NO_7S$
$C_{12}H_{23}NO_3$	>	1	$C_{18}H_{24}NO_7P$
$C_{12}H_{24}O_2$	>	1	$C_{18}H_{26}NO_3Br$
$C_{13}H_{12}N_2O$	>	1	$C_{18}H_{26}NO_4SBr$
$C_{13}H_{13}NO_2$	>	1	$C_{18}H_{27}NO_5$
$C_{13}H_{13}N_3O_3S$	>	1635	$C_{18}H_{30}O_{15}$
$C_{13}H_{17}N_3O$	>	1636—1638	$C_{18}H_{32}O_{16}$
$C_{13}H_{20}N_2O_2$	>	1	$C_{18}H_{36}O_2$
$C_{13}H_{24}O_4$	>	1	$C_{19}H_{22}N_2O$
$C_{13}H_{25}NO_3$	>	1	$C_{19}H_{23}NO_3$
$C_{14}H_7O_5SCL$	>	1639	$C_{19}H_{23}N_5O_2S$
$C_{14}H_6O_3$	>	1	$C_{19}H_{24}NO_3Cl$
$C_{14}H_8O_4$	>	1, 1640	$C_{19}H_{24}N_2O_6S$
$C_{14}H_8O_8S_2$	>	1641	$C_{19}H_{28}NO_4SBr$
$C_{14}H_8Cl_5$	>	1642	$C_{20}H_{12}O_5$
$C_{14}H_{10}N_2O_6$	>	1643	$C_{20}H_{14}O_4$
$C_{14}H_{12}O_2$	>	1	$C_{20}H_{16}O_3$
$C_{14}H_{13}N_4O_9S$	>	1	$C_{20}H_{21}N_3O$
$C_{14}H_{14}N_2O$	>	1	$C_{20}H_{21}N_3O_4S$
$C_{14}H_{15}N_3$	>	1	$C_{20}H_{22}NO_5Cl_3$
$C_{14}H_{15}N_5O_3S$	>	1	$C_{20}H_{22}N_4O_3S$
$C_{14}H_{16}NCl$	>	1	$C_{20}H_{23}NO_7$
$C_{14}H_{18}O_3$	>	1	$C_{20}H_{24}N_2O_2$
$C_{14}H_{26}O_4$	>	1	$C_{20}H_{27}N_2O_4P$
$C_{15}H_{18}O_3$	>	1	$C_{21}H_{21}NO_6$
$C_{15}H_{21}NO_2$	>	1	$C_{21}H_{22}NCl$

Component B	Table No.	Component A	Component B	Table No.
H ₂ O	1	C ₂₁ H ₂₂ N ₂ O ₂	H ₂ O	1
>	1	C ₂₁ H ₂₃ N ₂ O ₂ Cl	>	1
>	1	C ₂₁ H ₂₃ N ₂ O ₂ Br	>	1
>	1	C ₂₁ H ₂₃ N ₂ O ₂ I	>	1
>	1645	C ₂₁ H ₂₃ N ₂ O ₆ Cl	>	1
>	1	C ₂₁ H ₂₃ N ₃ O ₅	>	1
>	1	C ₂₁ H ₂₄ N ₄ O ₃ S	>	1
>	1	C ₂₁ H ₂₅ N ₂ O ₆ As	>	1
>	1	C ₂₁ H ₂₇ N ₂ O ₃ Cl	>	1
>	1, 1646	C ₂₂ H ₂₄ N ₂ O ₄	>	1654
>	1	C ₂₂ H ₂₅ N ₂ O ₄ Cl ₃	>	1
>	1	C ₂₂ H ₂₆ NO ₆ I	>	1
>	1	C ₂₂ H ₂₆ N ₄ O ₃ S	>	1655
>	1	C ₂₃ H ₂₂ N ₄ O ₃ S	>	1
>	1	C ₂₃ H ₂₃ N ₂ O ₄ Cl ₃	>	1
>	1	C ₂₃ H ₂₆ N ₂ O ₄	>	1
>	1	C ₂₃ H ₂₇ NO ₈	>	1
>	1	C ₂₃ H ₂₇ N ₂ O ₈ Cl	>	1
>	1	C ₂₄ H ₂₄ N ₄ O ₃ S	>	1
>	1647	C ₂₄ H ₂₄ N ₄ O ₄	>	1
>	1	C ₂₄ H ₂₈ N ₂ O ₇ S	>	1
>	1	C ₂₅ H ₂₄ N ₄ O ₁₀	>	1
>	1648	C ₂₅ H ₂₇ N ₂	>	1
>	1	C ₂₅ H ₂₈ N ₂ O ₆	>	1, 1656, 1657
>	1, 1650	C ₂₆ H ₂₄ N ₄ O ₁₁	>	1
>	1	C ₂₆ H ₂₇ N ₅ O ₃ S	>	1
>	1	C ₂₆ H ₄₂ N ₄ O ₁₄ Cr ₂	>	1658
>	1, 1651	C ₂₇ H ₃₂ O ₁₄	>	1659
>	1	C ₂₇ H ₃₂ N ₂ O ₁₀	>	1660
>	1652	C ₂₇ H ₄₆ O	>	1
>	1	C ₂₈ H ₂₅ N ₅ O ₁₀	>	1661
>	1	C ₂₈ H ₂₆ N ₂ O ₅ I ₂	>	1662
>	1	C ₂₈ H ₂₆ N ₄ O ₈	>	1663, 1664
>	1	C ₂₈ H ₂₈ N ₄ O ₉	>	1665
>	1	C ₂₈ H ₂₇ N ₂ O ₄ Cl	>	1666
>	1	C ₂₈ H ₂₇ N ₂ O ₄ Br	>	1667
>	1	C ₂₈ H ₂₇ N ₂ O ₄ I	>	1668
>	1	C ₂₈ H ₂₇ N ₂ O ₅ I	>	1669
>	1, 1653	C ₂₈ H ₂₇ N ₃ O ₆	>	1670
>	1	C ₂₈ H ₂₈ N ₂ O ₄	>	1671
>	1	C ₂₈ H ₂₈ N ₂ O ₅	>	1672
>	1	C ₂₈ H ₂₆ N ₃ O ₄	>	1673

Component A	Component B	Table No.	Component A
$C_{28}H_{38}N_2O_4$	H_2O	1	H_2
$C_{29}H_{30}N_2O_4$	>	1674	>
$C_{29}H_{40}N_2O_4$	>	1	>
$C_{29}H_{41}N_2O_4Cl$	>	1	>
$C_{29}H_{41}N_2O_4Br$	>	1	>
$C_{29}H_{41}N_3O_7$	>	1	>
$C_{29}H_{42}N_2O_8S$	>	1	>
$C_{30}H_{34}O_{13}$	>	1	>
$C_{31}H_{34}N_4O_8S$	>	1	>
$C_{32}H_{49}NO_9$	>	1	>
$C_{33}H_{37}N_5O_4S$	>	1	>
$C_{34}H_{39}N_5O_5S$	>	1	He
$C_{34}H_{40}N_4O_{10}S$	>	1	>
$C_{35}H_{37}N_5O_3S$	>	1	>
$C_{36}H_{60}O_{30}$	>	1, 1675	>
$C_{37}H_{41}N_5O_7S$	>	1	>
$C_{42}H_{46}N_4O_8S$	>	1	>
$C_{43}H_{55}N_4O_{10}P$	>	1	>
$C_{44}H_{46}N_4O_8$	>	1	>
$C_{44}H_{54}N_4O_{10}$	>	1	>
$C_{52}H_{39}NO_{10}$	>	1	>
$C_nH_pO_q$	>	1, 1676—1694	>
H_2	N_2	1695	>
>	NH_3	1696—1698	>
>	Fe	1699	>
>	Ni	1700	>
>	CO_2	1701	>
>	CCl_4	1702	N_2
>	$CHCl_3$	1703	>
>	CH_4	1704	>
>	CH_4O	1705—1708	>
>	$C_2H_4O_2$	1709	>
>	$C_2H_4Cl_2$	1710	>
>	C_2H_6O	1711, 1712	>
>	C_3H_6O	1713	>
>	$C_3H_6O_2$	1714	>
>	C_3H_8	1715	>
>	C_3H_8O	1716	>
>	$C_4H_8O_2$	1717	>
>	C_4H_{10}	1718, 1719	>
>	$C_4H_{10}O$	1720, 1721	>
>	C_5H_{12}	1722	>

Component B	Table No.	Component A	Component B	Table No.
C_6H_5Cl	1723	N_2	$C_4H_8O_2$	1795
C_6H_6	1724—1728	>	C_4H_{10}	1796—1799
C_6H_{12}	1729—1731	>	C_6H_5Cl	1800
C_6H_{14}	1732	>	C_6H_6	1801—1804
C_7H_8	1733	>	C_6H_{12}	1805
C_7H_{14}	1734	>	C_6H_{14}	1806
C_8H_8	1735	>	C_7F_{14}	1807
C_8H_{10}	1736—1738	>	C_7F_{16}	1808
C_8H_{18}	1739	>	C_8F_{16}	1809
C_9H_{12}	1740	>	C_8H_8	1810
$C_nH_pO_q$	1741—1746	>	C_8H_{18}	1811
N_2	1747	>	$C_nH_pO_q$	1812—1816
NH_3	1748	O_2	Bi	1817
CH_4	1749	>	SO_2	1818
CH_4O	1750	>	Cl_2	1819
C_2H_6O	1751	>	Xe	1820
C_3H_6O	1752	>	CO_2	1821
C_6H_6	1753, 1754	>	CCl_4	1822
C_6H_{12}	1755, 1756	>	CH_4	1823
$C_6H_{12}O$	1757	>	CH_4O	1824, 1825
C_6H_{14}	1758	>	C_2H_2	1826
C_7H_{10}	1759	>	C_2H_4	1827, 1828
C_8H_{18}	1760—1764	>	C_2H_6	1829
C_9H_{20}	1765	>	C_2H_6O	1830, 1831
$C_{10}H_{22}$	1766	>	C_3H_8	1832, 1833
$C_{12}H_{26}$	1767	>	C_3H_6O	1834—1836
$C_{14}H_{30}$	1768	>	$C_3H_6O_2$	1837
NH_3	1769—1772	>	$C_4H_{10}O$	1838—1840
SO_2	1773—1775	>	C_6H_5Cl	1841
CO_2	1776, 1777	>	C_6H_6	1842, 1843
CS_2	1778	>	$C_6H_{12}O$	1844
CCl_4	1779, 1780	>	C_7H_8	1845
CH_4	1781	>	C_8H_{10}	1846
CH_4O	1782—1784	>	C_8H_{18}	1847
C_2H_2	1785	>	$C_nH_pO_q$	1848—1855
C_2H_4	1786	Ne	CH_4O	1856
C_2H_6	1787	>	C_2H_6O	1857
C_2H_6O	1788—1790	>	C_3H_6O	1858
C_3H_6	1791	>	C_6H_6	1859, 1860
C_3H_6O	1792	>	C_6H_{12}	1861, 1862
$C_3H_6O_2$	1793	>	$C_6H_{12}O$	1863, 1864
C_3H_8O	1794	>	C_6H_{14}	1865

Component A	Component B	Table No.	Component A
Ne	C ₇ H ₁₆	1866	Rn
>	C ₈ H ₁₈	1867—1871	>
>	C ₉ H ₂₀	1872	>
>	C ₁₀ H ₂₂	1873	>
>	C ₁₄ H ₃₀	1874	>
Ar	CS ₂	1875	>
>	CCl ₄	1876	>
>	CH ₄ O	1877	>
>	C ₂ H ₆ O	1878	>
>	C ₃ H ₈ O	1879	>
>	C ₆ H ₆	1880, 1881	>
>	C ₆ H ₁₂	1882, 1883	Li
>	C ₆ H ₁₂ O	1884	Na
>	C ₆ H ₁₄	1885	>
>	C ₇ F ₁₄	1886	K
>	C ₇ H ₈	1887	>
>	C ₇ H ₁₄ *	1888	Cu
>	C ₇ H ₁₆	1889	>
>	C ₈ H ₁₀	1890	Ag
>	C ₈ H ₁₈	1891—1895	>
>	C ₉ H ₂₀	1896	Au
>	C ₁₀ H ₂₂	1897	Mg
>	C ₁₂ H ₂₆	1898	Zn
>	C ₁₄ H ₃₀	1899	>
>	Various Solvents	1900, 1901	>
Kr	C ₆ H ₆	1902	>
>	C ₆ H ₁₂	1903	>
>	C ₆ H ₁₄	1904	Cd
>	C ₇ H ₁₆	1905	Al
>	C ₈ H ₁₀	1906	>
>	C ₈ H ₁₈	1907—1911	Ga
>	C ₉ H ₂₀	1912	>
>	C ₁₀ H ₂₂	1913	In
>	C ₁₂ H ₂₆	1914	La
>	C ₁₄ H ₃₀	1915	Si
>	Various Solvents	1916, 1917	>
Xe	C ₆ H ₆	1918	>
>	C ₆ H ₇ N	1919	Sn
>	C ₆ H ₁₂	1920	>
>	C ₆ H ₁₄	1921	Pb
>	C ₈ H ₁₈	1922	>
>	C ₁₂ H ₂₆	1923	>

Component B	Table No.	Component A	Component B	Table No.
CS ₂	1924	P	P ₂ O ₃	1972
CHCl ₃	1925	>	S	1973
C ₂ H ₆ O	1926	>	CS ₂	1974, 1975
C ₃ H ₈ O	1927	P ₄	CCl ₄	1976
C ₄ H ₈ O ₂	1928	P	C ₂ H ₄ Br ₂	1977
C ₄ H ₁₀ O	1929	>	C ₂ H ₆ O	1978
C ₆ H ₆	1930	>	C ₃ H ₈ O ₃	1979
C ₆ H ₇ N	1931	>	C ₄ H ₁₀ O	1980
C ₆ H ₁₄	1932	P ₄	C ₆ H ₄ Br ₂	1981
C ₇ H ₈	1933	P	C ₆ H ₆	1982
Various Solvents	1934	P ₄	C ₇ H ₁₆	1983
NH ₃	1935	>	C ₁₀ H ₈	1984
NaOH	1936	P ₄	C ₁₄ H ₁₀	1985
NH ₃	1937, 1938	P	Various Solvents	1986
KOH	1939	Sb	SbCl ₃	1987
NH ₃	1940	>	SbI ₃	1988
Hg	1941, 1942	Bi	C	1989
Pb	1943	S	SnCl ₄	1990
AgCl	1944	>	NH ₃	1991
Hg	1945—1947	>	N ₂ H ₄	1992
Hg	1948	>	H ₂ S	1993
Hg	1949	>	H ₂ S ₃	1994
ZnCl ₂	1950	>	S ₂ Cl ₂	1995
ZnI ₂	1951	>	SeCl	1996
In	1952	>	CS ₂	1997, 1998
Bi	1953	>	CCl ₄	1999, 2000
milk	1954	>	CHCl ₃	2001—2003
CdI ₂	1955	>	CHBr ₃	2004
Hg	1956	>	CHI ₃	2005
AlI ₃	1957	>	CH ₄ O	2006
GaCl ₂	1958	>	C ₂ Cl ₄	2007
GaBr ₂	1959	>	C ₂ HCl ₃	2008, 2009
Hg	1960, 1961	>	C ₂ HCl ₅	2010
>	1962	>	C ₂ H ₂ Cl ₂	2011
Ag	1963	>	C ₂ H ₂ Cl ₄	2012
Zn	1964	>	C ₂ H ₄ Cl ₂	2013, 2014
Pb	1965	>	C ₂ H ₄ Br ₂	2015
SnCl ₂	1966	>	C ₂ H ₆ O	2016—2018
SnBr ₂	1967	>	C ₃ H ₈ O ₃	2019
Hg	1968	>	C ₄ H ₅ NS	2020, 2021
PbCl ₂	1969	>	C ₄ H ₁₀ O	2022—2024
PbI ₂	1970	>	C ₅ H ₅ N	2025, 2026

Component A	Component B	Table No.	Component A
S	C ₅ H ₁₂ O	2027	Br ₂
>	C ₆ H ₄ Cl ₂	2028	>
>	C ₆ H ₅ Cl	2029	>
>	C ₆ H ₆	2030—2035	>
>	C ₆ H ₆ O	2036, 2037	I ₂
>	C ₆ H ₇ N	2038, 2039	>
>	C ₆ H ₁₄	2040	>
>	C ₇ H ₅ OCl	2041	>
>	C ₇ H ₈	2042—2045	>
>	C ₇ H ₉ N	2046, 2047	>
>	C ₇ H ₁₄	2048	>
>	C ₈ H ₁₀	2049—2051	>
>	C ₈ H ₁₁ N	2052	>
>	C ₉ H ₇ N	2053	>
>	C ₁₀ H ₈ O	2054	>
>	C ₁₀ H ₁₄ N ₂	2055	>
>	C ₁₀ H ₂₂ O ₄	2056	>
>	C ₁₀ H ₁₆	2057, 2058	>
>	C _n H _p O _q	2059—2065	>
Cr	Hg	2066	>
Se	CS ₂	2067	>
>	CH ₂ I ₂	2068	>
Mn	Hg	2069	>
Tl	TlCl	2070	>
Te	CH ₂ I ₂	2071	>
Cl ₂	HCl	2072	>
>	BCl ₃	2073	>
>	SiCl ₄	2074	>
>	TlCl ₄	2075	>
>	Br ₂	2076	>
>	CO ₂	2077	>
>	CCl ₄	2078, 2079	>
>	CH ₂ Cl ₂	2080	>
>	CH ₂ Cl	2081	>
>	C ₂ H ₄ Br ₂	2082	>
>	C ₆ H ₆	2083	>
>	C ₆ H ₁₂	2084	>
>	C ₇ F ₁₆	2085	>
>	C ₇ H ₁₆	2086	>
>	Various Solvents	2087	>
Br ₂	SO ₂	2088	>
>	HBr	2089	>

Component B	Table No.	Component A	Component B	Table No.
CO ₂	2090	I ₂	C ₂₄ H ₈ O ₈ F ₂₈	2154
CS ₂	2091	>	Various	2155—2157
CCl ₄	2092	(CN) ₂	Solvents	2158
CHCl ₃	2093	Mn	Hg	2159
SiCl ₄	2094	Fe	>	2160
TiCl ₄	2095	>	Sn	2161
AsCl ₃	2096	Co	Hg	2162
TeCl ₄	2097	Ni	>	2163
CO ₂	2098	Pt	>	2164
CS ₂	2099—2102	H ₂ O ₂	CH ₄ O	2165
CCl ₄	2103—2106	LiF	HF	2166, 2167
CHCl ₃	2107—2109	>	C ₃ H ₆ O	2168
CHBr ₃	2110	LiCl	NH ₃	2169, 2170
CH ₂ Cl ₂	2111	>	N ₂ H ₄	2171
C ₂ F ₂ Cl ₃	2112	>	SO ₂	2172
C ₂ Cl ₄	2113	>	SeOCl ₂	2173
C ₂ HCl ₃	2114, 2115	>	CH ₄ O	2174, 2175
C ₂ HCl ₅	2116	>	C ₂ H ₆ O	2176
C ₂ H ₂ Cl ₃	2117, 2118	>	C ₃ H ₆ O	2177
C ₂ H ₂ Cl ₄	2119	.	C ₃ H ₈ O	2178, 2179
C ₂ H ₃ Cl	2120	>	C ₃ H ₈ O ₃	2180
C ₂ H ₄ Cl ₂	2121—2124	>	C ₄ H ₁₀ O	2181
C ₂ H ₄ Br ₂	2125, 2126	>	C ₃ H ₅ N	2182, 2183
C ₂ H ₆ O	2127	>	C ₃ H ₁₂ O	2184, 2185
C ₃ H ₆ O	2128	>	C ₇ H ₁₂ O ₂	2186
C ₄ F ₆ Cl ₂	2129	.	C ₆ H ₇ N	2187
C ₅ H ₁₀ O	2130—2132		C _n H _{2n+2} O	2188
C ₅ H ₁₂	2133, 2134	LiBr	SO ₂	2189
C ₆ H ₅ NO ₂	2135	>	C ₂ H ₆ O	2190
C ₆ H ₆	2136—2138	>	C ₂ H ₆ O ₂	2191
C ₆ H ₁₂	2139	>	C ₃ H ₆ O	2192
C ₆ H ₁₄	2140, 2141	>	C ₆ H ₁₀ O	2193
C ₇ F ₁₄	2142	>	C ₆ H ₁₂ O ₂	2194
C ₇ F ₁₆	2143—2145	>	C ₇ H ₆ O	2195
C ₇ HF ₁₅	2146	LiI	CH ₃ NO ₂	2196
C ₇ H ₁₆	2147	>	CH ₄ O	2197
C ₈ H ₂ F ₁₆	2148	>	C ₂ H ₆ O	2198
C ₈ H ₁₀	2149	>	C ₂ H ₆ O ₂	2199
C ₈ H ₁₈	2150	>	C ₃ H ₆ O	2200
C ₈ H ₂₀ O ₄ Si	2151	>	C ₃ H ₈ O	2201
C ₈ H ₂₄ O ₄ Si ₄	2152	>	C ₅ H ₄ O ₂	2202
C ₈ H ₁₂	2153	>	C ₅ H ₁₂ O	2203

Component A	Component B	Table No.	Component A
LiClO ₄	Various Solvents	2204, 2205	NaCl
LiNO ₃	NH ₃	2206	»
»	CH ₄ N ₂ O	2207	»
»	C ₂ H ₃ N	2208	»
»	C ₂ H ₄ O ₂	2209	»
»	C ₃ H ₆ O	2210	»
»	C ₅ H ₅ N	2211	»
»	C ₆ H ₁₂ O	2212	»
Li ₂ SO ₄	H ₂ SO ₄	2213	NaBr
Li ₂ TiF ₆	C ₂ H ₆ O	2214	»
LiCH ₂ O ₂	CH ₂ O ₂	2215, 2216	»
LiC ₂ H ₃ O ₂	CH ₄ O	2217	»
»	C ₂ H ₄ O ₂	2218	»
LiC ₇ H ₅ O ₂	CH ₄ O	2219	»
LiC ₇ H ₅ O ₃	C ₃ H ₈ O	2220	»
LiC ₁₂ H ₂₃ O ₂	Various Solvents	2221	»
LiC ₁₃ H ₂₇ O ₂	Solvents	2222	»
LiC ₁₆ H ₃₁ O ₂	»	2223	»
LiC ₁₈ H ₃₅ O ₂	»	2224	»
LiC _n H _{2n-1} O ₂	C ₂ H ₆ O	2225	NaI
NaOH	NH ₃	2226	»
»	CH ₄ O	2227	»
»	C ₂ H ₆ O	2228	»
NaF	H ₂ O ₂	2229	»
»	NH ₃	2230	»
»	SO ₂	2231	»
»	HF	2232	»
»	BrF ₃	2233	»
»	CH ₄ O	2234	»
»	C ₂ H ₆ O	2235	»
»	C ₃ H ₈ O	2236	NaCN
»	C ₄ H ₁₀ O	2237	»
NaCl	D ₂ O	2238	NaCNO
»	H ₂ O ₂	2239	»
»	KCl	2240	NaCNS
»	Al ₂ Br ₆	2241	»
»	NH ₃	2242, 2243	»
»	NH ₃ O	2244	NaClO ₃
»	N ₂ H ₄	2245	»
»	SO ₂	2246, 2247	»
»	SeOCl ₂	2248	NaClO ₄
»	CH ₄ O	2249--2251	Na ₂ B ₂ O ₄

Component B	Table No.	Component A	Component B	Table No.
C ₂ H ₄ O ₂	2252	Na ₂ B ₂ O ₄	C ₂ H ₆ O	2313
C ₂ H ₆ O	2253—2255	»	C ₃ H ₈ O ₃	2314
C ₂ H ₆ O ₂	2256	Na ₂ CO ₃	C ₂ H ₆ O ₂	2315
C ₃ H ₆ O	2257	»	C ₃ H ₈ O ₃	2316, 2317
C ₃ H ₈ O	2258—2261	NaHCO ₃	C ₂ H ₆ O	2318
C ₄ H ₁₀ O	2262—2264	»	C ₃ H ₈ O ₃	2319, 2320
C ₅ H ₁₁ NO ₂	2265	NaN ₃	C ₂ H ₆ O	2321
C _n H _{2n+2} O	2266, 2267	»	C ₆ H ₆	2322
NH ₃	2268, 2269	NaNH ₂	NH ₃	2323
N ₂ H ₄	2270	NaNO ₂	»	2324
SO ₂	2271, 2272	»	CH ₄ O	2325
CH ₄ O	2273, 2274	»	C ₂ H ₆ O	2326
C ₂ H ₅ NO	2275	NaNO ₃	H ₂ O ₂	2327
C ₂ H ₆ O	2276, 2277	»	NH ₃ O	2328
C ₃ H ₆ O	2278	»	N ₂ H ₄	2329
C ₃ H ₈ O	2279	»	CH ₄ O	2330
C ₄ H ₁₀ O	2280	»	CH ₄ N ₂ O	2331
C ₅ H ₁₁ NO ₂	2281	»	C ₂ H ₄ O ₂	2332
C _n H _{2n+2} O	2282	»	C ₂ H ₆ O	2333
NH ₃	2283	NaPO ₃	Ca (PO ₃) ₂	2334
N ₂ H ₄	2284	NaH ₂ PO ₄	H ₃ PO ₃	2335
SO ₂	2285, 2286	»	C ₂ H ₆ O	2336
CH ₄ O	2287	Na ₃ AsO ₄	C ₃ H ₈ O ₃	2337
C ₂ H ₅ NO	2288	Na ₂ SO ₃	SO ₂	2338
C ₂ H ₆ O	2289, 2290	Na ₂ SO ₄	H ₂ O ₂	2339
C ₃ H ₆ O	2291—2295	»	H ₂ SO ₄	2340
C ₄ H ₈ O	2296	»	CH ₄ O	2341
C ₇ H ₈ O	2297	»	C ₂ H ₆ O	2342
C _n H _{2n+2} O	2298, 2299	»	C ₃ H ₆ O	2343
Various Solvents	2300	NaHSO ₄	CH ₂ O ₂	2344
SO ₂	2301	»	C ₂ H ₆ O	2345
CH ₄ O	2302	Na ₂ S ₂ O ₃	»	2346
C ₂ H ₆ O	2303	Na ₂ CrO ₄	CH ₄ O	2347
C ₆ H ₆	2304	Na ₂ Cr ₂ O ₇	C ₂ H ₆ O	2348
CH ₄ O	2305	NaReO ₄	»	2349
C ₂ H ₆ O	2306	NaBF ₄	CH ₄ O	2350
C ₃ H ₆ O	2307	»	C ₂ H ₆ O	2351
N ₂ H ₄	2308	Na ₂ TiF ₆	»	2352
C ₂ H ₆ O	2309	NaCdBr ₃	»	2353
C ₃ H ₈ O ₃	2310	»	C ₄ H ₁₀ O	2354
Various Solvents	2311	Na ₂ CdI ₄	C ₂ H ₆ O	2355
C ₂ HCl ₃	2312	»	C ₄ H ₁₀ O	2356

Component A	Component B	Table No.	Component A
Na ₂ CS ₃	C ₂ H ₆ O	2357	KF
NaCHO ₂	CH ₄ O	2358	KCl
»	C ₂ H ₄ O ₂	2359	»
NaCH ₃ O ₃ S	CH ₄ O	2360	»
»	C ₃ H ₈ O ₃	2361	»
Na ₂ C ₂ O ₄	CH ₂ O ₂	2362	»
NaC ₂ H ₃ O ₂	N ₂ H ₄	2363	»
»	SO ₂	2364	»
»	CH ₄ O	2365	»
»	C ₂ H ₄ O ₂	2366	»
»	C ₃ H ₈ O	2367	»
»	C ₃ H ₈ O	2368	»
NaC ₃ H ₅ O ₂	CH ₄ O	2369	»
NaC ₃ H ₇ O ₆ P	C ₃ H ₈ O ₃	2370	»
Na ₂ C ₄ H ₄ O ₄	CH ₄ O	2371	»
NaKC ₄ H ₄ O ₈	C ₃ H ₆ O	2372	»
NaC ₄ H ₇ O ₂	CH ₄ O	2373	»
»	C ₃ H ₆ O	2374	»
»	C ₄ H ₈ O ₂	2375	»
NaC ₄ H ₁₂ O ₄ B	CH ₄ O	2376	»
NaC ₆ H ₅ O ₃ S	»	2377	»
NaC ₆ H ₅ O ₄ S	C ₂ H ₆ O	2378	KBr
NaC ₆ H ₇ O ₇	»	2379	»
NaC ₇ H ₅ O ₂	CH ₄ O	2380	»
NaC ₇ H ₅ O ₃	»	2381	»
»	C ₃ H ₈ O	2382	»
NaC ₈ H ₂₀ O ₄ B	C ₂ H ₆ O	2383	»
NaC ₁₀ H ₇ O ₃ S	CH ₄ O	2384	»
NaC ₁₁ H ₁₅ O ₃	Various Solvents	2385	»
NaC ₁₂ H ₂₈ O ₄ B	C ₃ H ₈ O	2386	»
»	C ₄ H ₈ O	2387	»
NaC ₁₆ H ₃₁ O ₂	C ₁₆ H ₃₂ O ₂	2388	»
NaC _n H _{2n-1} O ₂	C ₂ H ₆ O ₂	2389	»
»	C ₃ H ₈ O ₂	2390	»
K ₂ O	B ₂ O ₃	2391	KI
KOH	CH ₄ O	2392	»
»	C ₂ H ₆ O	2393	»
KF	SO ₂	2394	»
»	HF	2395, 2396	»
»	CH ₄ O	2397	»
»	C ₂ H ₆ O	2398	»
»	C ₃ H ₈ O	2399	»

Component B	Table No.	Component A	Component B	Table No.
C ₃ H ₈ O	2400	KI	C ₃ H ₈ O	2456, 2457
D ₂ O	2401	»	C ₃ H ₈ O	2458
Al ₂ Br ₆	2402	»	C ₃ H ₈ O ₃	2459
NH ₃	2403, 2404	»	C ₃ H ₅ N	2460
NH ₃ O	2405	»	C ₃ H ₁₁ NO ₂	2461
N ₂ H ₄	2406	»	C _n H _{2n+2} O	2462, 2463
SO ₂	2407, 2408	»	Various Solvents	2464
SeOCl ₂	2409	KIBr ₂	CCl ₄	2465
ICl	2410	KCN	Various Solvents	2466
MnCl ₂	2411	KCNO	NH ₃	2467
CH ₂ O ₂	2412	»	C ₂ H ₆ O	2468
CH ₄ O	2413, 2414	»	C ₆ H ₆	2469
C ₂ H ₄ O ₂	2415	»	SO ₂	2470
C ₂ H ₆ O	2416, 2417	KCNS	C ₂ H ₃ N	2471
C ₃ H ₆ O	2418	»	C ₅ H ₅ N	2472
C ₃ H ₇ NO ₂	2419	»	Various Solvents	2473
C ₃ H ₈ O	2420, 2421	KClO ₃	NH ₃	2474
C ₃ H ₈ O ₃	2422	KClO ₄	C ₄ H ₈ O ₂	2475
C ₄ H ₁₀ O	2423, 2424	»	Various Solvents	2476, 2477
C ₅ H ₄ O ₂	2325	K ₂ CO ₃	N ₂ H ₄	2478
C _n H _{2n+2} O	2426, 2427	KN ₃	C ₂ H ₆ O	2479
NH ₃	2428, 2429	KN ₃	C ₆ H ₆	2480
NH ₃ O	2430	KNH ₂	NH ₃	2481
N ₂ H ₄	2431	KNO ₃	»	2482--2486
SO ₂	2432, 2433	»	N ₂ H ₄	2487
CH ₂ O ₂	2434	»	HNO ₃	2488
CH ₄ O	2435, 2436	»	CH ₄ N ₂ O	2489
C ₂ H ₆ O	2437	»	C ₂ HCl ₃	2490
C ₃ H ₈ O	2438, 2439	»	C ₂ H ₆ O	2491
C ₄ H ₁₀ O	2440	KH ₂ PO ₂	H ₃ PO ₄	2492
C ₅ H ₄ O ₂	2441	KH ₂ PO ₄	C ₃ H ₈ O ₃	2493
C ₅ H ₁₁ NO ₂	2442	KH ₂ AsO ₄	NH ₃ O	2494
C ₅ H ₁₂ O	2443	K ₂ SO ₄	N ₃ H ₄	2495
C _n H _{2n+2} O	2444, 2445	»	CH ₂ O ₂	2496
NH ₃	2446, 2447	»	»	2497
NH ₃ O	2448	KHSO ₄	SO ₂	2498
N ₂ H ₄	2449	K ₂ S ₂ O ₅	N ₂ H ₄	2499
SO ₂	2450	K ₃ Fe(CN) ₆	CH ₄ O	2500
CH ₂ O ₂	2451	»	»	2501
CH ₄ O	2452, 2453	K ₄ Fe(CN) ₆	C ₂ H ₆ O	2502
C ₂ H ₃ NO	2454	K ₂ CdI ₄	C ₄ H ₁₀ O	2503
C ₂ H ₆ O	2455	»		

Component A	Component B	Table No.	Component A
KHgI ₃	Oil	2504	CuBr
K ₂ TiF ₆	C ₂ H ₆ O	2505	CuBr ₂
KC ₂ H ₃ O ₂	NH ₃	2506	»
»	SO ₂	2507	CuI
»	CH ₄ O	2508	»
»	C ₂ H ₄ O ₂	2509, 2510	Cu(ClO ₄) ₂
KC ₂ H ₃ O ₄ S	CH ₄ O	2511	»
KC ₃ H ₅ O ₂	»	2512	Cu(NO ₃) ₂
K ₂ C ₄ H ₄ O ₄	»	2513	CuSO ₄
KC ₄ H ₃ O ₆	»	2514	»
KC ₄ H ₇ O ₂	»	2515	CuC ₂ H ₂ O ₄
KC ₆ H ₃ O ₄ S	C ₂ H ₆ O	2516	CuC ₄ H ₆ O ₄
K ₃ C ₆ H ₃ O ₇	C ₃ H ₈ O ₃	2517	»
KC ₇ H ₃ O ₂	CH ₄ O	2518	»
K ₃ C ₈ H ₄ O ₄	C _n H _{2n+2} O	2519	»
KC ₁₂ H ₂₃ O ₂	C ₆ H ₆	2520	»
KC ₁₈ H ₃₃ O ₂	C ₂ H ₆ O	2521	CuC ₁₀ H ₂₀ N ₂ S ₄
KC ₁₈ H ₃₅ O ₂	»	2522	»
KC ₂₄ H ₂₀ B	»	2523	CuC ₁₂ H ₁₀ N ₃
»	C ₃ H ₈ O	2524	CuC ₄ H ₁₀ O ₄
»	C ₄ H ₁₀ O	2525	»
KC ₂₄ H ₄₇ O ₂	C ₂ H ₆ O	2526	RbF
KC ₃₀ H ₄₉ O ₄	CH ₄ O	2527	RbCl
»	C ₂ H ₆ O	2528	»
CuF ₂	HF	2529	»
CuCl	C ₂ H ₃ N	2530	»
»	C ₃ H ₅ OCl	2531	»
»	C ₄ H ₈ O	2532—2534	»
»	C ₅ H ₁₀ O	2535—2539	»
»	C ₆ H ₁₂ O	2540	RbBr
CuCl ₂	CH ₄ O	2541, 2542	»
»	C ₂ H ₃ N	2543	»
»	C ₂ H ₄ O ₂	2544	RbBr ₂ I
»	C ₂ H ₆ O	2545, 2546	RbJ
»	C ₃ H ₆ O	2547, 2548	»
»	C ₃ H ₈ O ₂	2549, 2550	»
»	C ₃ H ₈ O	2551—2553	»
»	C ₄ H ₈ O ₂	2554, 2555	RbClO ₄
»	C ₄ H ₁₀ O	2556, 2557	Rb ₂ CO ₃
»	C ₅ H ₅ N	2558	Rb ₂ SO ₄
»	C ₇ H ₁₂ O	2559	Rb ₂ S ₂ O ₅
»	C ₇ H ₈ O	2560	RbC ₂₁ H ₂₀ B

Component B	Table No.	Component A	Component B	Table No.
C ₂ H ₃ N	2561	RbC ₂₄ H ₂₀ B	C ₃ H ₆ O	2605
CH ₂ O ₂	2562	»	C ₄ H ₁₀ O	2606
C ₂ H ₃ N	2563	AgF	HF	2607, 2608
»	2564	AgF ₂	»	2609
C ₅ H ₅ N	2565	AgCl	NH ₃	2610—2612
C ₄ H ₁₀ O ₂	2566	»	SO ₂	2613
C ₅ H ₄ O ₂	2567	»	CH ₂ O	2614
N ₂ H ₄	2568	»	C ₂ H ₆ O	2615
D ₂ O	2569	»	C ₃ H ₅ N	2616
CH ₄ O	2570	»	Various Solvents	2617
CH ₂ O ₂	2571	AgBr	NH ₃	2618, 2619
CH ₄ O	2572	»	CH ₄ O	2620
C ₂ H ₄ O ₂	2573	»	C ₂ H ₆ O	2621
C ₃ H ₆ O	2574	»	C ₃ H ₆ O	2622
C ₃ H ₈ O ₃	2575	»	C ₄ H ₆ O ₂	2623
C ₃ H ₅ N	2576	»	C ₄ H ₆ O	2624—2626
Various Solvents	2577	»	C ₅ H ₁₀ O	2627, 2628
C _n H _{2n+2} O	2578	»	C ₆ H ₆ O	2629
CH ₄ O	2579	AgI	NH ₃	2630, 2631
C ₃ H ₆ O	2580	»	SO ₂	2632
C ₃ H ₆ O	2581	»	CH ₄ O	2633
NH ₃	2582	»	C ₂ H ₆ O	2634
N ₂ H ₄	2583	AgCNS	SO ₂	2635
SO ₂	2584, 2585	AgClO ₄	C ₄ H ₁₀ O ₂	2636
SeOCl ₂	2586	»	C ₃ H ₄ O ₂	2637
MnCl ₂	2587	»	C ₃ H ₅ N	2638
C ₃ H ₆ O	2588	»	C ₆ H ₆	2639
C _n H _{2n+2} O	2589	AgNO ₂	C ₂ H ₃ N	2640
NH ₃	2590	AgNO ₃	NH ₃	2641
C ₃ H ₆ O	2591	»	N ₂ H ₄	2642
C ₃ H ₇ NO ₂	2592	»	CH ₄ O	2643
CCl ₄	2593	»	C ₂ H ₃ N	2644
NH ₃	2594	»	C ₂ H ₄ O ₂	2645
C ₃ H ₆ O	2595, 2596	»	C ₂ H ₆ O	2646
C ₃ H ₇ NO ₂	2597	»	C ₃ H ₆ O	2647
Various Solvents	2598	»	C ₃ H ₅ N	2648, 2649
»	2599, 2600	»	C ₆ H ₆	2650
C ₂ H ₆ O	2601	»	C ₆ H ₆ O	2651
H ₂ SO ₄	2602	»	C ₇ H ₅ N	2652
SO ₂	2603	»	Various Solvents	2653, 2654
C ₂ H ₆ O	2604	Ag ₂ Se	NH ₄ OH	2655

Component A	Component B	Table No.	Component A
Ag ₂ Te	NH ₄ OH	2656	AuCl
AgC ₂ H ₃ O ₂	SO ₂	2657	metal halides
»	Various Solvents	2658	»
AgC ₄ H ₇ O ₂	»	2659	»
AgC ₅ H ₉ O ₂	»	2660	metal nitrates
AgC ₅ H ₁₀ O ₂	»	2661	Metal C ₃ O ₃ F ₂
AgC ₆ H ₃ N ₂ O ₃	»	2662	NH ₄ Cl
AgC ₇ H ₄ O ₂ Cl	»	2663	»
AgC ₇ H ₄ NO ₄	»	2664	»
AgC ₇ H ₅ O ₂	»	2665	»
AgC ₇ H ₅ O ₃	»	2666, 2667	»
AgC ₈ H ₇ O ₂	»	2668	NH ₄ Br
AgC ₉ H ₁₇ O ₂	»	2669	»
AgC ₁₀ H ₁₁ O ₂	»	2670	»
AgC ₁₂ H ₂₃ O ₂	»	2671	»
AgC ₁₄ H ₂₇ O ₂	»	2672	»
AgC ₁₆ H ₃₁ O ₂	»	2673, 2674	NH ₄ I
AgC ₁₈ H ₃₅ O ₂	»	2675, 2676	»
CsF	C ₃ H ₆ O	2677	»
CsF ₂	HF	2678	»
CsF ₄	»	2679	NH ₄ CNS
CsCl	NH ₃	2680	»
»	SO ₂	2681	»
»	SeOCl ₂	2682	»
»	C ₃ H ₆ O	2683, 2684	NH ₄ ClO ₄
»	Various Solvents	2685	»
CsBr	C ₃ H ₆ O	2686	(NH ₄) ₂ CO ₃
CsBr ₂ I	CCl ₄	2687	»
CsI	I ₂	2688	NH ₄ NO ₃
»	C ₃ H ₆ O	2689, 2690	»
CsClO ₄	Various Solvents	2691, 2692	»
Cs ₂ CO ₃	C ₂ H ₆ O	2693	»
Cs ₂ S ₂ O ₅	SO ₂	2694	NH ₄ VO ₃
Cs ₂ TiF ₆	C ₂ H ₆ O	2695	(NH ₄) ₂ S
Cs ₆ H ₂ N ₃ O ₇	Various Solvents	2696	(NH ₄) ₂ S ₂ O ₅
Cs ₆ H ₃ N ₂ O ₆	»	2697	(NH ₄) ₂ SO ₄
Cs ₆ H ₄ NO ₃	»	2698	(NH ₄) ₂ TiF ₆
CsC ₂₄ H ₂₆ B	C ₂ H ₆ O	2699	NH ₄ CdBr ₃
»	C ₃ H ₆ O	2700	»
»	C ₄ H ₁₀ O	2701	NH ₄ CdI ₃

Component B	Table No.	Component A	Component B	Table No.
PCl ₃	2702	(NH ₄) ₂ CdI ₄	C ₂ H ₆ O	2750
CH ₂ O ₂	2703	NH ₄ CdI ₃	C ₄ H ₁₀ O	2751
CH ₄ O	2704	(NH ₄) ₂ CdI ₄	C ₄ H ₁₀ O	2752
C ₂ H ₃ N	2705	NH ₄ R	CH ₄ O	2753
C ₁₂ H ₂₇ O ₄ P	2706	»	C ₂ H ₆ O	2754
C ₂ HO ₂ F ₃	2707	NH ₄ CHO ₂	CH ₄ O ₂	2755
NH ₃	2708, 2709	(NH ₄) ₂ C ₂ O ₄	N ₂ H ₄	2756
N ₂ H ₄	2710	»	CH ₂ O ₂	2757
SO ₂	2711, 2712	NH ₄ C ₂ H ₃ O ₂	NH ₃	2758
CH ₄ O	2713	»	SO ₂	2759
C ₂ H ₄ O ₂	2714, 2715	»	CH ₄ O	2760
NH ₃	2716	»	C ₂ H ₄ O ₂	2761
N ₂ H ₄	2717	NH ₄ C ₂ H ₄ Cl	C ₃ H ₆ O	2762
SO ₂	2718, 2719	NH ₄ C ₃ H ₈ I	Various Solvents	2764
CH ₄ O	2720	(NH ₄) ₂ C ₄ H ₄ O ₄	CH ₄ O	2765
C ₂ H ₆ O	2721, 2722	»	C ₃ H ₆ O	2766
C ₄ H ₁₀ O	2723	NH ₄ C ₄ H ₈ Cl	C ₂ H ₃ N	2767
NH ₃	2724	NH ₄ C ₄ H ₈ Br	»	2768
SO ₂	2725	»	C ₅ H ₁₁ NO ₂	2769
C ₅ H ₄ NO ₂	2726	NH ₄ C ₄ H ₈ I	»	2770
NH ₃	2727	NH ₄ C ₄ H ₈ N ₃	Various Solvents	2771
SO ₂	2728	»	»	2772
CH ₄ O	2729	NH ₄ C ₇ H ₄ NO ₃	CH ₄ O	2773
C ₂ H ₆ O	2730	NH ₄ C ₇ H ₅ O ₂	C ₃ H ₈ O ₃	2774
NH ₃	2731	»	CH ₄ O	2775
SO ₂	2732	NH ₄ C ₇ H ₅ O ₃	C ₃ H ₆ O	2776
Various Solvents	2733	»	C ₄ H ₁₀ O	2777
C ₂ H ₆ O	2734	»	CHCl ₃	2778
C ₃ H ₈ O ₃	2735	NH ₄ C ₈ H ₁₆ Cl	C ₂ H ₃ N	2779
NH ₃	2736, 2737	»	Various Solvents	2780
N ₂ H ₄	2738	»	CHCl ₃	2781
HNO ₃	2739	NH ₄ C ₈ H ₁₆ Br	C ₂ H ₃ N	2782
C ₂ H ₄ O ₂	2740	»	Various Solvents	2783
C ₅ H ₅ N	2741	»	CHCl ₃	2784
N ₂ H ₄	2742	NH ₄ C ₈ H ₁₆ I	C ₅ H ₄ NO ₂	2785
NH ₃	2743	»	Various Solvents	2786, 2787
SO ₂	2744	»	C ₂ H ₄ O ₂	2788
»	2745	NH ₄ C ₉ H ₁₀ Γa.л.	Various Solvents	2789
C ₂ H ₆ O	2746	NH ₄ C ₁₀ H ₇ SO ₃	C ₂ HCl ₃	2790
C ₂ H ₄ O	2747	»	CHCl ₃	2791
C ₄ H ₁₀ O	2748	NH ₄ C ₁₂ H ₂₃ O ₂		
C ₂ H ₆ O	2749	NH ₄ C ₁₂ H ₂₄ I		

Component A	Component B	Table No.	Component A
NH ₄ C ₁₂ H ₂₄ I	Various Solvents	2792	MgBr ₂ · 2C ₃ H ₆ O ₂
NH ₄ C ₁₆ H ₃₁ O ₂	C ₂ H ₆ O	2793	MgBr ₂ · 4C ₃ H ₇ NO ₂
»	C ₃ H ₈ O	2794	MgBr ₂ · 4C ₃ H ₈ O
NH ₄ C ₁₈ H ₃₃ O ₂	C ₂ H ₆ O	2795	MgBr ₂ · 6C ₃ H ₈ O
»	C ₃ H ₈ O	2796	MgBr ₂ · 2C ₃ H ₈ O ₂
NH ₄ C ₁₈ H ₃₅ O ₂	C ₂ HCl ₃	2797	MgBr ₂ · 6C ₄ H ₆ O ₃
»	C ₂ H ₆ O	2798	MgBr ₂ · C ₄ H ₁₀ O
»	C ₃ H ₈ O	2799	MgBr ₂ · C ₈ H ₂₀ O ₂
»	C ₄ H ₁₀ O	2800	MgBr ₂ · 4C ₄ H ₁₀ O
NH ₄ C ₂₀ H ₄₀ I	CHCl ₃	2801	MgBr ₂ · 6C ₄ H ₁₀ O
NH ₄ C ₂₄ H ₂₀ B	C ₂ H ₆ O	2802	MgBr ₂ · 6C ₃ H ₁₂ O
»	C ₃ H ₆ O	2803	MgBr ₂ · 4C ₆ H ₇ N
»	C ₄ H ₁₀ O	2804	MgBr ₂ · 6C ₆ H ₈ N ₂
NH ₄ RiBr ₂	CHCl ₃	2805	MgBr ₂ · 3C ₇ H ₆ O
BeF	HF	2806	MgBr ₂ · 6C ₉ H ₉ NO
BeCl ₂	SO ₂	2807	MgI ₂ · 6CH ₄ O
»	Various Solvents	2808	MgI ₂ · 6C ₂ H ₃ N
BeBr ₂	C ₅ H ₅ N	2809	MgI ₂ · 6C ₂ H ₄ O ₂
Be(NO ₃) ₂	C ₆ H ₁₀ O	2810	MgI ₂ · 6C ₂ H ₅ NO
Be ₄ C ₁₂ H ₁₈ O ₁₃	CHCl ₃	2811	MgI ₂ · 6C ₂ H ₆ O
BeC ₂₄ H ₄₆ O ₄	CH ₄ O	2812	MgI ₂ · 6C ₃ H ₆ O
»	C ₂ H ₆ O	2813	MgI ₂ · 6C ₃ H ₆ O ₂
BeC ₂₈ H ₅₄ O ₄	CH ₄ O	2814	MgI ₂ · 6C ₃ H ₇ NO ₂
»	C ₂ H ₆ O	2815	MgI ₂ · 6C ₃ H ₈ O
BeC ₃₂ H ₆₄ O ₄	CH ₄ O	2816	MgI ₂ · 2C ₄ H ₁₀ O
»	C ₂ H ₆ O	2817	MgI ₂ · 2C ₆ H ₁₄ O ₂
BeC ₃₆ H ₇₀ O ₄	CH ₄ O	2818	MgI ₂ · 6C ₅ H ₁₀ O ₂
MgF ₂	HF	2819	MgI ₂ · 4C ₆ H ₇ N
MgCl ₂	CH ₄ O	2820	MgI ₂ · 6C ₆ H ₁₂ O ₂
»	C ₂ H ₆ O	2821	MgI ₂ · 6C ₇ H ₆ O
MgBr ₂	NH ₃	2822	MgI ₂ · 6C ₇ H ₁₄ O ₂
»	C ₂ H ₃ N	2823	Mg(ClO ₄) ₂
»	C ₄ H ₁₀ O	2824	Mg(NO ₃) ₂
»	C ₃ H ₅ N	2825	»
MgBr ₂ · 6CH ₃ O ₂	CH ₂ O ₂	2826	MgSO ₄
MgBr ₂ · 6CH ₄ O	CH ₄ O	2827	»
MgBr ₂ · 4CH ₄ N ₂ O	CH ₄ N ₂ O	2828	»
MgBr ₂ · 6C ₂ H ₄ O ₂	C ₃ H ₄ O ₂	2829	»
MgBr ₂ · 6C ₂ H ₅ NO	CH ₃ NO	2830	Mg ₃ La ₂ (NO ₃) ₁₂
MgBr ₂ · 6C ₂ H ₆ O	C ₂ H ₆ O	2831	MgC ₂ H ₆ O ₂
MgBr ₂ · 3C ₃ H ₆ O	C ₃ H ₆ O	2832	MgC ₄ H ₆ O ₄

Component B	Table No	Component A	Component B	Table No.
C ₃ H ₈ O ₂	2833	MgC ₈ H ₁₀ O ₆	CH ₄ O	2878
C ₃ H ₇ NO ₂	2834	»	C ₂ H ₆ O	2879
C ₃ H ₈ O	2835	MgC ₁₄ H ₁₀ O ₄	CH ₄ O	2880
»	2836	»	C ₃ H ₆ O	2881
C ₃ H ₈ O ₂	2837	MgC ₁₄ H ₁₀ O ₆	C ₂ H ₆ O	2882
C ₄ H ₆ O ₃	2838	MgC ₂₂ H ₃₀ O ₆	CH ₄ O	2883
C ₄ H ₁₀ O	2839	»	C ₂ H ₆ O	2884
»	2840	MgC ₂₄ H ₁₆ O ₄	Various Solvents	2885
»	2841	MgC ₂₄ H ₁₈ O ₁₂ L ₂	C ₄ H ₆ O ₂	2886
»	2842	MgC ₂₈ H ₃₄ O ₄	Various Solvents	2887
C ₅ H ₁₂ O	2843	MgC ₃₂ H ₃₄ O ₄	»	2888
C ₆ H ₇ N	2844	MgC ₃₂ H ₆₂ O ₄	»	2889
C ₆ H ₈ N ₂	2845	MgC ₃₆ H ₆₄ O ₄	»	2890
C ₇ H ₆ O	2846	MgC ₃₆ H ₆₆ O ₄	C ₃ H ₈ O ₃	2891
C ₆ H ₉ NO	2847	MgC ₃₆ H ₆₆ O ₄	Various Solvents	2892
CH ₄ O	2848	MgC ₃₆ H ₇₀ O ₄	CaCl ₂	2893
C ₂ H ₃ N	2849	CaO	HF	2894
C ₂ H ₄ O ₂	2850	CaF ₂	SiO ₂	2895
C ₂ H ₅ NO	2851	CaCl ₂	N ₂ H ₄	2896
C ₂ H ₆ O	2852	»	SeOCl ₂	2897
C ₃ H ₆ O	2853	»	CH ₂ O ₂	2898
C ₃ H ₆ O ₂	2854, 2855	»	CH ₄ O	2899
C ₃ H ₇ NO ₂	2856	»	C ₂ H ₄ O ₂	2900
C ₃ H ₈ O	2857	»	C ₂ H ₅ NO	2901
C ₄ H ₁₀ O	2858	»	C ₂ H ₆ O	2902
C ₆ H ₁₄ O ₂	2859	»	C ₃ H ₆ O	2903
C ₅ H ₁₀ O ₂	2860	»	C ₃ H ₆ O	2904
C ₆ H ₇ N	2861	»	C ₄ H ₁₀ O	2905
C ₆ H ₁₂ O ₂	2862	»	C ₅ H ₅ N	2906
C ₇ H ₆ O	2863	»	C ₅ H ₁₂ O	2907, 2908
C ₇ H ₁₄ O ₂	2864	»	C ₇ H ₆ O	2909
Various Solvents	2865	»	NH ₃	2910
NH ₃	2866	CaBr ₂	CH ₄ O	2911
CH ₄ O	2867	»	C ₂ H ₆ O	2912
C ₂ H ₆ O	2868	CaBr ₂	C ₃ H ₆ O	2913
CH ₂ O ₂	2869	»	C ₃ H ₆ O	2914
CH ₄ O	2870, 2871	»	C ₄ H ₁₀ O	2915
C ₂ H ₆ O	2872, 2873	»	C ₅ H ₁₂ O	2916, 2917
C ₃ H ₈ O ₃	2874	»	C ₆ H ₁₂ O	2918
HNO ₃	2875	»	C ₆ H ₁₂ O ₂	2919
CH ₄ O	2876	»	C ₇ H ₈ O	2920
»	2877	»		

Component A	Component B	Table No.	Component A
CaI ₂	NH ₃	2921	ZnCl ₂
›	SO ₂	2922	›
›	CH ₄ O'	2923	ZnCl ₄
›	C ₃ H ₈ O	2924	ZnBr ₂
Ca(ClO ₄) ₂	Various Solvents	2925	›
Ca(NO ₂) ₂	C ₂ H ₆ O	2926	ZnI ₂
Cn(NO ₃) ₂	NH ₃	2927—2929	›
›	CH ₄ O	2930	›
›	CH ₄ N ₂ O	2931	›
›	C ₂ H ₄ O ₂	2932	Zn(CNS) ₂
›	C ₂ H ₆ O	2933, 2934	Zn(ClO ₄) ₂
›	C ₃ H ₈ O	2935	›
›	C ₃ H ₈ O ₂	2936	Zn(NO ₃) ₂
›	C ₃ H ₈ O	2937	Zn ₃ (AsO ₃) ₂
›	C ₃ H ₈ O ₂	2938	Zn ₃ (AsO ₄) ₂
›	C ₄ H ₁₀ O ₂	2939	ZnSO ₄
›	C ₅ H ₁₂ O	2940	›
›	C ₆ H ₁₄ O ₂	2941	›
›	Various Solvents	2942	ZnC ₄ H ₈ O ₄
›	C ₃ H ₈ O ₃	2943	›
CaSO ₄	C ₂ H ₆ O	2944	›
CaBr ₂ · Hg(CN) ₂	CH ₄ O	2945	ZnC ₁₀ H ₂₀ N ₂ S ₄
CaC ₂ H ₂ O ₄	CH ₄ O	2946	ZnC ₄ H ₁₀ O ₄
CaC ₃ H ₇ O ₆ P	C ₃ H ₈ O ₃	2947	ZnC ₂₂ H ₃₀ O ₆
CaC ₄ H ₄ O ₅	C ₂ H ₆ O	2947	ZnC ₂₄ H ₄₆ O ₄
CaC ₄ H ₄ O ₆	›	2948	ZnC ₃₆ H ₇₀ O ₄
CaC ₄ H ₆ O ₄	CH ₄ O	2949	›
›	C ₂ H ₄ O ₂	2950	›
CaC ₄ H ₁₂ O ₄ As ₂	C _n H _{2n+2} O	2951	›
CaC ₆ H ₆ O ₆	CH ₄ O	2952	SrO
CaC ₆ H ₁₀ O ₄	›	2953	SrF ₂
Ca ₃ C ₁₂ H ₁₀ O ₁₄	C ₂ H ₆ O	2954	SrCl ₂
CaC ₁₄ H ₁₀ O ₄	CH ₄ O	2955	›
CaC ₁₈ H ₁₄ O ₄	C ₃ H ₈ O	2956—2958	›
CnC ₂₂ H ₃₀ O ₆	Various Solvents	2959	›
›	›	2960	›
CaC ₃₆ H ₆₆ O ₄	›	2960	›
ZnF ₂	HF	2961	SrBr ₂
ZnCl ₂	N ₂ H ₄	2962	›
›	SO ₂	2963	›
›	SeOCl ₂	2964	›
›	C ₂ H ₄ O ₂	2965	›
›	C ₃ H ₈ O	2966	›

Component B	Table No.	Component A	Component B	Table No.
C ₃ H ₈ O ₃	2967	SrBr ₂	C ₆ H ₁₂ O ₂	3010
C ₃ H ₅ N	2968	SrI ₂	NH ₃	3011
SO ₂	2969	>	SO ₂	3012
C ₃ H ₆ O	2970	>	C ₂ H ₆ O	3013
C ₃ H ₅ N	2971	>	C ₆ H ₁₀ O	3014
NH ₃	2972	SrI	C ₆ H ₁₂ O	3015
SO ₂	2973	Sr(ClO ₄) ₂	Various Solvents	3016
C ₃ H ₈ O ₃	2974	Sr(NO ₃) ₂	C ₂ H ₆ O	3017
C ₃ H ₅ N	2975	Sr(NO ₃) ₂	NH ₃	3018
SO ₂	2976	>	N ₂ H ₄	3019
C ₄ H ₁₀ O ₂	2977	>	C ₂ H ₆ O	3020
C ₃ H ₄ O ₃	2978	>	C ₃ H ₈ O	3021
NH ₃	2979	>	C ₃ H ₈ O ₂	3022
CH ₂ O ₂	2980	>	C ₄ H ₁₀ O ₂	3023
>	2981	>	C ₃ H ₅ N	3024
CH ₄ O	2982, 2983	>	C ₆ H ₁₄ O ₃	3025
C ₂ H ₆ O	2984	SrSO ₄	CH ₂ O ₂	3026
C ₃ H ₈ O ₂	2985	SrC ₄ H ₈ O ₄	CH ₄ O	3027
N ₂ H ₄	2986	>	C ₂ H ₄ O ₂	3028
CH ₄ O	2987	SrC ₄ H ₁₂ O ₄ As ₂	CH ₄ O	3029
C ₂ H ₄ O ₂	2988	>	C ₂ H ₆ O	3030
Various Solvents	2989	SrC ₁₄ H ₈ O ₄ Γαλ.	C ₃ H ₆ O	3031
>	2990	CdF ₂	HF	3032
>	2991	CdCl ₂	SeOCl ₂	3033
C ₇ H ₈	2992	>	CH ₄ O	3034, 3035
>	2993	>	C ₂ H ₆ O	3036, 3037
C ₁₂ H ₂₄ O ₂	2994	>	C ₃ H ₅ N	3038
C ₁₈ H ₃₆ O	2995	>	C ₇ H ₅ N	3039
SrCl ₂	2996	CdCl ₂ · 2C ₃ H ₅ N	Various Solvents	3040
HF	2997	CdBr ₂	CH ₄ O	3041
D ₂ O	2998	>	C ₂ H ₆ O	3042
N ₂ H ₄	2999	>	Various Solvents	3043
CH ₂ O ₂	3000	CdI ₂	SO ₂	3044
CH ₄ O	3001	>	CH ₄ O	3045, 3046
C ₂ H ₄ O ₂	3002	>	C ₂ H ₄ O ₂	3047
C ₂ H ₆ O	3003	>	C ₂ H ₆ O	3048, 3049
NH ₃	3004	>	C ₃ H ₆ O	3050
CH ₄ O	3005	>	C ₃ H ₈ O ₂	3051
C ₂ H ₆ O	3006, 3007	>	C ₃ H ₈ O	3052, 3053
C ₃ H ₆ O	3008	>	C ₄ H ₈ O ₂	3054, 3055
C ₃ H ₁₄ O	3009	>	C ₄ H ₁₀ O	3056, 3057

Component A	КОМПОНЕНТ Б	Table No	Component A
CdI ₂	C ₅ H ₅ N	3058, 3059	BaSO ₄
>	C ₆ H ₇ N	3060	BaC ₄ H ₄ O ₄
>	C ₉ H ₇ N	3061	BaC ₄ H ₄ O ₅
>	Various Solvents	3062	BaC ₄ H ₄ O ₆
Cd(ClO ₄) ₂	C ₄ H ₁₀ O ₂	3063	BaC ₄ H ₆ O ₄
>	C ₅ H ₄ O ₂	3064	>
Cd(NO ₃) ₂	NH ₃	3065	>
CdSO ₄	CH ₂ O ₂	3066	BaC ₄ H ₁₂ O ₄ As ₂
>	CH ₄ O	3067	BaC ₆ H ₁₀ O ₄
>	C ₂ H ₆ O	3068	BaC ₆ H ₁₀ O ₆
CdC ₄ H ₆ O ₄	>	3069	BaC ₁₂ H ₁₀ O ₆ S ₂
CdC ₁₀ H ₂₀ N ₂ S ₄	Various Solvents	3070	BaC ₁₂ H ₁₀ O ₈ S ₂
BaF ₂	HF	3071	Ba ₃ C ₁₂ H ₁₀ O ₄
BaCl ₂	N ₂ H ₄	3072	BaC ₁₄ H ₈ O ₄ Br ₂
>	SeOCl ₂	3073	BaC ₁₄ H ₁₀ O ₄
>	CH ₂ O ₂	3074	BaC ₁₆ H ₁₄ O ₄
>	CH ₄ O	3075	>
>	C ₂ H ₄ O ₂	3076	BaC ₂₄ H ₄₆ O ₄
>	C ₃ H ₆ O ₃	3077	BaC ₂₆ H ₅₄ O ₄
>	C ₆ H ₅ NO ₂	3078	BaC ₃₂ H ₅₄ O ₄
BaBr ₂	NH ₃	3079	BaC ₃₂ H ₆₂ O ₄
>	CH ₄ O	3080, 3081	>
>	C ₂ H ₆ O	3082, 3083	>
BaBr ₂	C ₃ H ₆ O	3084	BaC ₃₆ H ₇₀ O ₄
>	C ₅ H ₁₂ O	3085	HgF
BaI ₂	NH ₃	3086	HgF ₂
>	SO ₂	3087	HgCl ₂
>	CH ₂ O ₂	3088	>
>	C ₂ H ₆ O	3089, 3090	>
>	C ₅ H ₅ N	3091	>
Ba(IO ₃) ₂	C ₂ H ₆ O	3092	>
Ba(ClO ₄) ₂	Various Solvents	3093	>
Ba(NO ₃) ₂	NH ₃	3094—3097	>
>	NH ₃ O	3098	>
>	N ₂ H ₄	3099	>
>	CH ₄ O	3100, 3101	>
>	C ₂ H ₄ O ₂	3102	>
>	C ₂ H ₆ O	3103	>
>	C ₃ H ₆ O	3104	>
>	C ₃ H ₈ O	3105	>

Component B	Table No.	Component A	Component B	Table No.
CH ₂ O ₂	3107	HgCl ₂	Various Solvents	3165, 3166
C ₂ H ₆ O	3108	HgBr ₂	SO ₂	3167
>	3109	>	CH ₄ O	3168—3170
>	3110	>	C ₂ H ₄ O ₂	3171
CH ₄ O	3111	>	C ₂ H ₆ O	3172—3174
C ₂ H ₄ O ₂	3112	>	C ₃ H ₆ O	3175, 3176
C ₂ H ₆ O	3113	>	C ₃ H ₈ O	3177
C _n H _{2n} + ₂ O	3114	>	C ₄ H ₁₀ O	3178
C ₂ H ₆ O	3115	>	C ₅ H ₅ N	3179
CH ₄ O	3116	>	C ₆ H ₆	3180
>	3117	>	C ₆ H ₇ N	3181
C ₂ H ₆ O	3118	>	C ₆ H ₇ N	3182
>	3119	HgI ₂	N ₂ H ₄	3183
C ₃ H ₆ O	3120	>	CS ₂	3184, 3185
CH ₄ O	3121	>	CCl ₄	3186
>	3122—3125	>	CHCl ₃	3187
C ₃ H ₆ O	3126, 3127	>	CH ₂ I ₂	3188
Various Solvents	3128	>	C ₂ H ₄ O ₂	3189
>	3129	>	C ₃ H ₆ O	3190—3192
>	3130	>	C ₃ H ₈ O ₂	3193—3195
C ₂ H ₆ O	3131	>	C ₄ H ₁₀ O	3196
Various Solvents	3132	>	C ₃ H ₅ N	3197
>	3133	>	C ₆ H ₆	3198—3200
>	3134	>	C ₆ H ₇ N	3201
HF	3135	>	C ₆ H ₇ N	3202
>	3136	>	C _n H _{2n+2} O	3203
SO ₂	3137	>	C _n H _p O _q	3204—3206
SeOCl ₂	3138	Hg(CN) ₂	SO ₂	3207
CS ₂	3139	>	CH ₄ O	3208
CHBr ₃	3140	>	C ₂ H ₅ N	3209
CH ₄ O	3141, 3145	>	C ₂ H ₆ O	3210
C ₂ H ₄ Cl ₂	3142	>	C ₃ H ₆ O	3211
C ₂ H ₄ O ₂	3143, 3144	>	C ₃ H ₈ O ₂	3212
C ₂ H ₆ O	3146, 3147	>	C ₄ H ₁₀ O	3213
C ₃ H ₆ O	3148—3151	>	C ₅ H ₅ N	3214
C ₃ H ₆ O ₂	3152	>	C ₆ H ₇ N	3215
C ₃ H ₈ O	3153	>	C ₇ H ₅ N	3216
C ₄ H ₆ O ₂	3154—3156	>	C ₉ H ₇ N	3217
C ₄ H ₁₀ O	3157—3160	>	Various Solvents	3218
C ₅ H ₅ N	3161	Hg(CNS) ₂	SO ₂	3219
C ₆ H ₆	3162—3164	HgNO ₃	N ₂ H ₄	3220

Component A	Component B	Table No.	Component A
Hg(NO ₃) ₂	Lanolin	3221	AlCl ₃
HgSO ₄	SO ₂	3222	>
HgC ₂ H ₃ O ₂	CH ₄ O	3223	>
HgC ₄ H ₆ O ₄	SO ₂	3224	>
>	CH ₄ O	3225	>
>	C ₃ H ₆ O	3226	>
HgC ₁₀ H ₂₀ N ₂ S ₄	Various Solvents	3227	>
HgC ₁₄ H ₁₀ O ₄	CH ₄ O	3228	>
>	C ₃ H ₆ O	3229	>
HgC ₁₀ O ₄	C ₆ H ₆	3230	>
HgC ₂ H ₃₀ O ₆	Various Solvents	3231	>
HgC ₂₄ H ₂₀ N ₄	C _n H _{2n+2} O	3232	>
HgC ₃₂ H ₆₂ O ₄	Various Solvents	3233	>
HgC ₃₆ H ₇₀ O ₄	>	3234	AlBr ₃
H ₃ BO ₃	NH ₃	3235	>
>	N ₂ H ₄	3236	>
>	C ₂ HCl ₃	3237	>
>	C ₂ H ₂ Cl ₂	3238	>
>	C ₃ H ₆ O ₃	3239, 3240	>
>	C ₄ H ₆ O ₂	3241	>
>	C ₅ H ₅ N	3242	>
BF ₃	N ₂ O	3243	>
>	PF ₃	3244	>
>	SO ₂	3245	>
>	H ₂ SO ₄	3246	>
>	HCl	3247	>
>	CF ₄	3248	>
>	CClF ₃	3249	AlI ₃
>	CH ₃ Cl	3250	>
>	C ₃ H ₄ S	3251	Al Γan. ₃
>	C ₆ H ₆	3252	Al ₂ (SO ₄) ₃
>	C ₇ H ₈	3253	AlC ₅₄ H ₉₉ O ₆
BCl ₃	H ₂ S	3254	>
>	HCl	3255	>
BBr ₃	AlBr ₃	3256	AlC ₅₄ H ₁₀₅ O ₆
>	SnBr ₄	3257	>
>	SnI ₄	3258	>
>	AsBr ₃	3259	YCl ₃
AlF ₃	HF	3260	>
AlCl ₃	N ₂ H ₄	3261	Y(NO ₃) ₃
>	CCl ₄	3262	InAs

Component B	Table No.	Component A	Component B	Table No.
CHCl ₃	3263	La(NO ₃) ₃	C ₄ H ₁₀ O	3322
C ₆ H ₄ NO ₂ Cl	3264—3266	La ₂ Co ₃ (NO ₃) ₁₂	HNO ₃	3323
C ₆ H ₄ NO ₂ Br	3267—3269	La ₂ Ni ₃ (NO ₃) ₁₂	>	3324
C ₆ H ₅ NO ₂	3270	LaC ₄ H ₆ O ₄	CH ₄ O	3325
C ₆ H ₆	3271, 3272	CeCl ₃	N ₂ H ₄	3326
C ₆ H ₁₂	3273, 3274	>	C ₅ H ₅ N	3327
C ₆ H ₁₄	3275	CeBr ₃	>	3328
C ₇ H ₅ ClO	3276	Ce(NO ₃) ₃	C ₄ H ₁₀ O	3329
C ₇ H ₇ NO ₂	3277—3279	CeC ₆ H ₉ O ₆	CH ₄ O	3330
C ₇ H ₈	3280, 3281	Ce ₂ C ₁₂ H ₁₂ O ₁	Various Solvents	3331
C ₈ H ₁₀	3282	CeC ₃₃ H ₄₅ O ₉	>	3332
C ₉ H ₁₂	3283	CeC ₄₈ H ₉₃ O ₆	C ₄ H ₁₀ O	3333
C ₁₃ H ₁₀ O	3284	>	5794	3334
CS ₂	3285	CeC ₅₄ H ₉₉ O ₆	C ₄ H ₁₀ O	3335
C ₂ H ₅ Br	3286	CeC ₅₄ H ₁₀₅ O ₆	Turpentine	3336
C ₄ H ₁₀	3287	PrCl ₃	C ₅ H ₅ N	3337
C ₅ H ₅ N	3288, 3289	Pr(NO ₃) ₃	C ₄ H ₁₀ O	3338
C ₆ H ₄ NO ₂ Cl	3290—3292	NdCl ₃	C ₂ H ₆ O	3339
C ₆ H ₄ NO ₂ Br	3293—3295	>	C ₅ H ₅ N	3340
C ₆ H ₅ NO ₂	3296	NdC ₃₃ H ₄₅ O ₆	Various Solvents	3341
C ₆ H ₆	3297, 3298	SmCl ₃	C ₅ H ₅ N	3342
C ₆ H ₁₂	3299	Sm ₂ (SO ₄) ₃	N ₂ H ₄	3343
C ₇ H ₅ ClO	3300	Sm(NO ₃) ₆ Me ₂	HNO ₃	3344
C ₇ H ₅ N	3301	Er(NO ₃) ₃	C ₄ H ₁₀ O	3345
C ₇ H ₇ NO ₂	3302—3304	TiF	HF	3346
C ₇ H ₈	3305	TiF ₃	>	3347
C ₈ H ₁₀	3306	TiCl	SO ₂	3348
C ₁₃ H ₁₀ O	3307	>	MnCl ₂	3349
SO ₂	3308	>	CH ₄ O	3350
C ₅ H ₅ N	3309	TiBr	SO ₂	3351
POCl ₃	3310	TiI	>	3352
C ₂ H ₆ O ₂	3311	TiCN	>	3353
CH ₄ O	3312	TiCNS	>	3354
C ₃ H ₆ O	3313	TiClO ₄	>	3355
C ₆ H ₆	3314	Ti ₂ CO ₃	>	3356
CH ₄ O	3315	Ti ₂ SO ₃	>	3357
C ₃ H ₆ O	3316	Ti ₂ SO ₄	>	3358
C ₆ H ₆	3317	TiCH ₃ O	CH ₄ O	3359
C ₃ H ₆ O	3318	TiCH ₃ O	C ₆ H ₆	3360
C ₅ H ₅ N	3319	TiC ₂ H ₃ O ₂	SO ₂	3361
C ₄ H ₁₀ O	3320	TiC ₂ H ₅ O	C ₂ H ₆ O	3362
InSb	3321			

Component A	Component B	Table No.	Component A
TiC ₆ H ₂ N ₃ O ₇	CH ₄ O	3363	GeCl ₄
TiC ₁₂ H ₂₃ O ₂	C ₄ H ₁₀ O	3364	>
>	C ₃ H ₈ O	3365	GeS
TiC ₁₄ H ₂₇ O ₂	C ₂ H ₆ O	3366	GeS ₂
>	C ₃ H ₈ O	3367	ZrF ₄
>	C ₄ H ₁₀ O	3368	SnCl ₂
TiC ₁₆ H ₃₁ O ₂	C ₂ H ₆ O	3369	>
>	C ₃ H ₈ O	3370	>
>	C ₄ H ₁₀ O	3371	SnCl ₄
TiC ₁₈ H ₃₃ O ₂	C ₂ H ₆ O	3372	>
>	C ₃ H ₈ O	3373	>
>	C ₄ H ₁₀ O	3374	>
TiC ₁₈ H ₃₅ O ₂	C ₂ H ₆ O	3375	>
>	C ₃ H ₈ O	3376	>
>	C ₄ H ₁₀ O	3377	>
TiC ₂₀ H ₃₉ O ₂	C ₂ H ₆ O	3378	>
>	C ₃ H ₈ O	3379	>
>	C ₄ H ₁₀ O	3380	>
HSI	C ₆ H ₁₂ O	3381	>
SiF ₄	Various Solvents	3382	>
SiCl ₄	SnI ₄	3383	SnBr ₄
>	SO ₂	3384	>
>	C ₂ H ₆ O	3385	SnI ₄
>	C ₃ H ₈ O	3386	>
>	C ₄ H ₈ O ₂	3387	>
>	C ₆ H ₁₀ O ₃	3388	>
>	C ₇ H ₈ O	3389	>
>	C ₇ H ₁₂ O ₄	3390	>
>	C ₁₀ H ₈	3391	>
>	C ₁₂ H ₁₀ O	3392	>
>	C ₁₂ H ₁₀ N ₂	3393	>
SiBr ₄	C ₄ H ₈ O ₂	3394	SnFR ₃
Si ₂ I ₆	CS ₂	3395	>
SiI ₄	>	3396	>
TiCl ₄	NbCl ₅	3397	SnC ₂ O ₄
>	TaCl ₅	3398	SnC ₂₀ H ₄₀ N ₄ S ₈
>	SO ₂	3399	PbO
>	SeOCl ₂	3400	PbF ₂
>	C ₁₀ H ₈	3401	>
TiBr ₄	SO ₂	3402	>
GeCl ₄	>	3403	PbCl ₂

Component B	Table No.	Component A	Component B	Table No.
C ₇ H ₈ O	3404	PbCl ₂	SO ₂	3448
C ₁₂ H ₁₀ O	3405	»	C ₅ H ₅ N	3449
NH ₃	3406	PbBr ₂	SO ₂	3450
»	3407	»	C ₅ H ₅ N	3451
HF	3408	PbI ₂	N ₂ H ₄	3452
CH ₂ O ₂	3409	»	SO ₂	3453
C ₃ H ₈ O	3410	»	CH ₂ O ₂	3454
C ₄ H ₈ O ₂	3411, 3412	»	C ₅ H ₅ N	3455
SO ₂	3413	»	Various Solvents	3456
SeOCl ₂	3414	Pb(CN) ₂	SO ₂	3457
C ₂ H ₄ O ₂	3415	Pb(CNS) ₂	»	3458
C ₃ H ₈ O ₂	3416	Pb(ClO ₄) ₂	C ₄ H ₁₀ O ₂	3459
C ₆ H ₄ N ₂ O ₄	3417	»	C ₅ H ₄ O ₂	3460
C ₇ F ₁₆	3418	Pb(BO ₂) ₂	N ₂ H ₄	3461
C ₇ H ₇ NO ₃	3419	Pb(NO ₃) ₂	»	3462
C ₇ H ₈ O	3420	»	CH ₄ O	3463
C ₉ H ₁₀ O ₂	3421	»	C ₂ H ₆ O	3464
C ₁₂ H ₁₀ O	3422	»	C ₅ H ₅ N	3465
C ₁₂ H ₁₀ N ₂	3423	PbFR ₃	CH ₄ O	3466
C ₃₂ H ₆₆	3424	»	C ₂ H ₄ O	3467
SO ₂	3425, 3426	»	C ₆ H ₆	3468
C ₃₂ H ₆₆	3427	PbX	Blood serum	3469
CS ₂	3428	PbC ₂ H ₂ O ₄	CH ₂ O ₂	3470
CCl ₄	3429	PbC ₄ H ₄ O ₄	C ₂ H ₆ O	3471
CHCl ₃	3430	PbC ₄ H ₄ O ₅	»	3472
CH ₂ I ₂	3431	PbC ₄ H ₄ O ₆	»	3473
C ₆ H ₈	3432	PbC ₄ H ₆ O ₄	CH ₂ O ₂	3474
C ₆ H ₁₄	3433	»	CH ₄ O	3475
C ₇ H ₁₆	3434	»	C ₂ H ₄ O ₂	3476, 3477
C ₈ H ₁₈	3435, 3436	»	C ₃ H ₈ O ₃	3478
Various Solvents	3437	»	Lanolin	3479
CH ₄ O	3438	PbC ₆ HN ₃ O ₈	C ₆ H ₁₀ O ₄	3480
C ₂ H ₆ O	3439	PbC ₁₀ I ₂₀ N ₂ S ₄	Various Solvents	3481
C ₆ H ₆	3440	PbC ₁₂ H ₁₀ O ₁₄	C ₂ H ₆ O	3482
CH ₂ O ₂	3441	PbC ₁₂ H ₂₂ Cl ₂	Various Solvents	3483
Various Solvents	3442	PbC ₁₂ I ₂₂ Br ₂	»	3484
N ₂ H ₄	3443	PbC ₁₄ H ₁₀ O ₄	CH ₄ O	3485
»	3444	»	C ₃ H ₈ O	3486
SO ₂	3445	PbC ₁₈ H ₃₃	CHCl ₃	3487
HF	3446	»	C ₂ H ₆ O	3488
PbBr ₂	3447			

Component A	Component B	Table No.	Component A
PbC ₁₈ H ₃₃	C ₆ H ₆	3489	NH ₃
PbC ₂₄ H ₂₀	Various Solvents	3490	>
PbC ₂₄ H ₃₂	>	3491	>
PbC ₂₄ H ₄₄	>	3492	>
PbC ₂₄ H ₄₆ O ₄	>	3493	>
PbC ₂₈ H ₅₄ O ₄	>	3494	>
PbC ₃₂ H ₅₄ O ₄	>	3495	NH ₃ O
PbC ₃₂ H ₆₂ O ₄	>	3496, 3497	NH ₃ O · HCl
PbC ₃₆ H ₆₄ O ₄	>	3498	>
PbC ₃₆ H ₆₆ O ₄	C ₄ H ₁₀ O	3499	N ₂ H ₄
PbC ₃₆ H ₇₀ O ₄	>	3500	>
>	Various Solvents	3501	>
PbC ₄₄ H ₈₂ O ₄	C ₄ H ₁₀ O	3502	>
PbC ₄₈ H ₉₄ O ₄	>	3503	>
Pb(C _n H _{2n-1} O ₂) ₂	>	3504	>
NH ₃	H ₂ O ₂	3504	>
>	NH ₃ O	3505	>
>	CCl ₄	3506	>
>	CHCl ₃	3507	>
>	CH ₃ NO	3508	>
>	CH ₄	3509	>
>	CH ₄ O	3510	N ₂ O
>	CH ₄ N ₂ O	3511	>
>	CH ₄ N ₂ S	3512, 3513	>
>	C ₂ H ₄ O ₂	3514	>
>	C ₂ H ₅ NO	3515	>
>	C ₂ H ₆ O	3516, 3517	>
>	C ₄ H ₁₀ O	3518	>
>	C ₆ H ₃ N ₃ O ₇	3519	>
>	C ₆ H ₄ N ₂ O ₄	3520	>
>	C ₆ H ₅ NO ₂	3521, 3522	>
>	C ₆ H ₆ N ₂ O ₂	3523	>
>	C ₆ H ₇ NO ₃ S	3524	>
>	C ₆ H ₈ N ₂	3525	>
>	C ₆ H ₁₂	3526	>
>	C ₆ H ₁₂ O	3527	>
>	C ₆ H ₁₅ N	3528	>
>	C ₇ H ₅ NO ₄	3529	NO
>	C ₇ H ₆ O ₂	3530	>
>	C ₇ H ₇ NO ₂	3531	>
>	C ₇ H ₉ N	3532	>

Component B	Table No.	Component A	Component B	Table No.
C ₃ H ₈ O ₂	3533	NO	C ₆ H ₁₂	3576
C ₃ H ₉ NO	3534	NOCl	C ₆ H ₁₂	3577
C ₉ H ₉ O ₃	3535	N ₂ O ₃	N ₂ O ₄	3578
C ₁₀ H ₂₀ O	3536	N ₂ O ₄	HNO ₃	3579, 3580
C ₂₇ H ₄₆ O	3537	>	C ₂ H ₂ O ₄ Cl ₄	3581
Various Solvents	3538	>	C ₃ H ₈ O ₃	3582
>	3539	>	C ₄ F ₈ O	3583
CH ₄ O	3540	>	C ₄ H ₈ O ₂	3584
C ₂ H ₆ O	3541	>	C ₅ H ₁₀ O	3585
CH ₄ N ₂ O	3542	>	C ₆ H ₁₄ O	3586, 3587
C ₃ H ₄ O ₂	3543	>	C ₆ H ₁₄ O ₂	3588
C ₂ H ₅ NO	3544	>	C ₈ H ₁₈ O	3589, 3590
C ₄ H ₈ O ₂	3545	H ₃ P	C ₆ H ₁₂ O	3591
C ₃ H ₁₀ O ₂	3546	H ₃ PO ₄	C ₄ H ₈ O ₂	3592
C ₈ H ₈ O	3547	>	C ₄ H ₁₀ O	3593
C ₇ H ₈ O ₂	3548	>	C ₆ H ₆ O	3594
C ₇ H ₈ O ₃	3549	P ₂ O ₅ · 20MoO ₃	C ₄ H ₁₀ O	3595
C ₁₀ H ₁₄ O	3550	P ₄ S ₃	Various Solvents	3596
C ₁₂ H ₁₁ N	3551	P ₄ S ₇	CS ₂	3597
C ₁₂ H ₂₄ O ₂	3552	P ₄ S ₁₀	CS ₂	3598
C ₁₆ H ₃₂ O ₂	3553	P ₄ Se ₃	>	3599
CCl ₄	3554	As ₂ O ₃	>	3600
CHCl ₃	3555	>	CH ₂ O ₂	3601
CH ₄ O	3556	>	C ₂ H ₆ O	3602
C ₂ H ₄ O ₂	3557	>	C ₃ H ₈ O ₃	3603
C ₂ H ₅ Br	3558	>	C ₄ H ₁₀ O	3604
C ₂ H ₆ O	3559, 3560	>	C ₁₁ H ₂₀ O ₄	3605
C ₃ H ₈ O	3561, 3562	As ₂ O ₅	CH ₂ O ₂	3606
C ₃ H ₈ O ₂	3563	AsCl ₃	C ₆ H ₇ N	3607
C ₃ H ₅ N	3564	>	C ₈ H ₁₁ N	3608
C ₃ H ₁₂ O	3565	>	C ₁₄ H ₁₂	3609
C ₆ H ₅ Cl	3566	AsBr ₃	C ₁₂ H ₁₀ N ₂	3610
C ₆ H ₆	3567	AsI ₃	CS ₂	3611
C ₆ H ₇ N	3568	>	CH ₂ I ₂	3612
C ₆ H ₁₂ O	3569	>	C ₁₀ H ₈	3613
C ₇ H ₈ O	3570	>	C ₁₄ H ₁₀	3614
C ₇ H ₁₄ O ₂	3571	AsC ₁₅ H ₃₀ N ₃ O ₆	Various Solvents	3615
CCl ₄	3572	SbF ₃	HF	3616
C ₂ H ₆ O	3573	>	CH ₄ O	3617
C ₆ H ₅ NO ₂	3574	>	C ₃ H ₆ O	3618
C ₆ H ₆	3575	>	C ₃ H ₈ O	3619

Component A	Component B	Table No.	Component A
SbF ₈	C ₄ H ₈ O	3620	SbCl ₃
»	C ₄ H ₈ O ₂	3621	»
»	C ₆ H ₅ Cl	3622	»
»	C ₆ H ₅ NO ₂	3623	»
»	C ₆ H ₆	3624	»
»	C ₆ H ₄ Cl	3625	»
»	C ₈ H ₁₀ O	3626	SbCl ₅
SbCl ₅	C ₂ H ₂ Cl ₄	3627	SbBr ₃
»	C ₂ H ₄ O ₂	3628	»
»	C ₃ H ₆ O	3629	»
»	C ₄ H ₈ O ₂	3630	»
»	C ₆ H ₄ Cl ₂	3631	»
»	C ₆ H ₄ Br ₂	3632	»
»	C ₆ H ₄ N ₂ O ₄	3633	»
»	C ₆ H ₅ F	3634	»
»	C ₆ H ₅ Cl	3635	»
»	C ₆ H ₅ Br	3636	»
»	C ₆ H ₅ I	3637	»
»	C ₆ H ₅ NO ₂	3638	»
»	C ₆ H ₆	3639	»
»	C ₆ H ₆ O	3640	»
»	C ₆ H ₆ O ₃ S	3641	»
»	C ₆ H ₇ N	3642	»
»	C ₆ H ₁₀	3643	»
»	C ₆ H ₁₂	3644	»
»	C ₇ H ₅ OCl	3645	»
»	C ₇ H ₅ N	3646	»
»	C ₇ H ₆ O	3647	»
»	C ₇ H ₆ O ₂	3648	»
»	C ₇ H ₇ Cl	3649—3651	»
»	C ₇ H ₇ NO ₂	3652—3654	»
»	C ₇ H ₈	3655	»
»	C ₇ H ₈ O	3656	»
»	C ₈ H ₈ O	3657	»
»	C ₈ H ₁₀	3658—3661	»
»	C ₈ H ₁₀ O	3662	»
»	C ₉ H ₁₂	3663—3665	»
»	C ₇ H ₇ Cl	3666	»
»	C ₁₀ H ₇ Cl	3667	»
»	S ₁₀ H ₇ Br	3668	»
»	C ₁₀ H ₇ NO ₂	3669	»
»	C ₁₀ H ₈	3670	»

Component B	Table No.	Component A	Component B	Table No.
C ₁₀ H ₁₄	3671	SbBr ₃	C ₁₃ H ₁₂	3723
C ₁₁ H ₁₆	3672	>	C ₁₉ H ₁₆	3724
S ₁₂ H ₁₀	3673	SbI ₃	CH ₂ I ₂	3725
C ₁₂ H ₁₀ O	3674	>	C ₆ H ₅ NO ₂	3726
C ₁₃ H ₁₂	3675	>	C ₇ H ₇ NO ₂	3727
C ₁₉ H ₁₆	3676	>	C ₁₀ H ₈	3728
SeOCl ₂	3677	SbC ₁₅ H ₃₀ N ₃ S ₆	Various Solvents	3729
C ₂ H ₄ O ₂	3678	TaCl ₅	CS ₂	3730
C ₆ H ₄ Cl ₂	3679	>	CCl ₄	3731
C ₆ H ₁ Br ₂	3680	>	CHCl ₃	3732
C ₈ H ₄ N ₂ O ₄	3681	>	C ₂ H ₅ Br	3733
C ₆ H ₅ F	3682	>	C ₂ H ₈ N ₂	3734
C ₆ H ₅ Cl	3683	>	C ₆ H ₅ NO ₂	3735
C ₆ H ₅ Br	3684	TaBr ₅	CCl ₄	3736
C ₆ H ₅ I	3685	>	C ₂ H ₅ Br	3737
C ₆ H ₅ NO ₂	3686	BiF ₃	HF	3738
C ₆ H ₅ NO ₃	3687	BiCl ₃	N ₂ H ₄	3739
C ₆ H ₆	3688	>	SbCl ₃	3740
C ₆ H ₆ O	3689	>	C ₃ H ₆ O	3741
C ₆ H ₆ O ₃ S	3690	>	C ₄ H ₈ O ₂	3742
C ₆ H ₁₀	3691	BiBr ₃	C ₆ H ₅ NO ₂	3743
C ₆ H ₁₆	3692	BiOCl	CH ₂ O ₂	3744
C ₇ H ₅ OCl	3693	Bi(NO ₃) ₃	C ₃ H ₆ O	3745
C ₇ H ₅ N	3694	BiC ₁₅ H ₃₀ N ₃ S ₆	Various Solvents	3746
C ₇ H ₆ O	3695	SO ₂	SO ₂ Cl ₂	3747
C ₇ H ₆ O ₂	3696	>	H ₂ SO ₄	3748
C ₇ H ₇ Cl	3697—3699	"	CCl ₄	3749, 3750
C ₇ H ₇ NO ₂	3700—3702	>	CHCl ₃	3751
C ₇ H ₈	3703	>	CH ₂ O ₂	3752
C ₇ H ₈ O	3704	>	CH ₄	3753
C ₈ H ₈ O	3705	>	CH ₄ O	3754
C ₈ H ₁₀	3706—3709	>	C ₂ H ₄ O ₂	3755, 3756
C ₈ H ₁₀ O	3710	>	C ₂ H ₆ O	3757
C ₈ H ₁₂	3711—3713	>	C ₃ H ₆ O	3758, 3759
C ₁₀ H ₇ Cl	3714, 3715	>	C ₃ H ₆ O ₂	3760
C ₁₀ H ₇ Br	3716	>	C ₄ H ₆ O ₃	3761
C ₁₀ H ₇ NO ₂	3717	>	C ₄ H ₁₀	3762
C ₁₀ H ₈	3718	>	C ₆ H ₅ N	3763
C ₁₀ H ₁₄	3719	>	C ₆ H ₃ N ₃ O ₇	3764
C ₁₁ H ₁₆	3720	>	C ₆ H ₄ NO ₂ Cl	3765
C ₁₂ H ₁₀	3721	>	C ₆ H ₄ N ₂ O ₄	3766
C ₁₃ H ₁₀ O	3722	>		

Component A	Component B	Table No.	Component A
SO ₂	C ₆ H ₅ Cl	3767	H ₂ S
»	C ₆ H ₅ NO ₂	3768, 3769	»
»	C ₆ H ₆	3770, 3771	»
»	C ₆ H ₈ O	3772	»
»	C ₆ H ₈ O ₂	3773	H ₂ SO ₄
»	C ₆ H ₈ N ₂ O ₂	3774	»
»	C ₆ H ₇ N	3775—3777	H ₂ S ₂ O ₇
»	C ₆ H ₁₂	3778	S ₄ N ₄
»	C ₆ H ₁₄	3779, 3780	»
»	C ₇ H ₆ N ₂ O ₄	3781	»
»	C ₇ H ₇ NO ₂	3782, 3783	CrO ₃
»	C ₇ H ₈	3784, 3785	CrCl ₃
»	C ₈ H ₁₁ N	3786	Cr(CN ₂ O ₅) ₆ (ReO ₄) ₃
»	C ₈ H ₁₆	3787	CrC ₆ H ₉ O ₆
»	C ₁₀ H ₈	3788	»
»	C ₁₀ H ₉ N	3789	SeO ₂
»	C ₁₀ H ₁₀ O ₂	3790	HF
»	C ₁₀ H ₁₅ OBr	3791	»
»	C ₁₀ H ₁₆ O	3792	»
»	C ₁₀ H ₁₈	3793, 3794	»
»	C ₁₀ H ₂₀ O	3795	»
»	C ₁₀ H ₂₂	3796	HCl
»	C ₁₂ H ₉ N	3797	»
»	C ₁₂ H ₉ NS	3798	»
»	C ₁₂ H ₂₆	3799	»
»	C ₁₃ H ₁₀	3800	»
»	C ₁₃ H ₁₁ N	3801	»
»	C ₁₃ H ₈ O ₂	3802	»
»	C ₁₄ H ₁₀	3803, 3804	»
»	C ₁₄ H ₁₄	3805	»
»	C ₁₄ H ₃₀	3806	»
»	C ₁₅ H ₁₆	3807	»
»	C ₁₆ H ₃₄ O ₂	3808	»
»	C ₁₆ H ₃₄ O	3809	»
»	C ₁₆ H ₂₄	3810	»
»	C ₁₈ H ₂₁ O ₂	3811	»
»	C ₁₉ H ₁₆	3812	»
»	C ₁₉ H ₂₄	3813	»
»	C ₂₂ H ₆₆	3814	»
»	C ₅₇ H ₁₁₀ O ₈	3815	»
»	C _n H _{n'} O _q	3816—3823	»
SO ₂ Cl ₂	SO ₃	3824	»

Component B	Table No.	Component A	Component B	Table No.
NH ₃	3825	HCl	C ₇ H ₈	3891
C ₂ H ₆ O	3826	»	C ₇ H ₈ O	3892
C ₈ H ₁₂	3827	»	C ₇ H ₁₆	3893
Various Solvents	3828	»	C ₇ H ₁₆ O	3894
CO ₂	3829	»	C ₈ H ₈ O ₂	3895
C ₁₀ H ₆ N ₂ O ₄	3830, 3831	»	C ₈ H ₁₀ O	3896
C ₄ H ₈ O ₂	3832	»	C ₈ H ₁₈ O	3897
CS ₂	3833	»	C ₉ H ₁₀ O ₂	3898
C ₂ H ₆ O	3834	»	C ₉ H ₁₂ O	3899
C ₈ H ₈	3835	»	C ₉ H ₂₀ O	3900
N ₂ H ₄	3836	»	C ₁₀ H ₂₀ O ₂	3901
»	3837	»	Various Solvents	3902—3904
C ₂ H ₆ O	3838	ICl	CCl ₄	3905
CH ₄ O	3839	»	C ₂ H ₄ O ₂	3906
C ₃ H ₈ O	3840	»	C ₅ H ₅ N	3907
Various Solvents	3841	HBr	C ₉ H ₅ NO ₂	3908
C ₃ H ₈	3842	»	C ₆ H ₆	3909
C ₄ H ₁₀	3843, 3844	»	C ₆ H ₁₄	3910
C ₆ H ₆	3845	»	C ₆ H ₁₈	3911
C ₈ H ₁₈	3846	»	C ₁₀ H ₂₂	3912
CH ₂ O ₂	3847	MnF ₃	HF	3913
CH ₄ O	3848, 3849	MnCl ₂	N ₂ H ₄	3914
C ₂ HO ₂ Cl ₃	3850	»	SeOCl ₂	3915
C ₂ H ₃ O ₂ Cl	3851	»	C ₅ H ₅ N	3916
C ₂ H ₄ O ₂	3852	MnI ₂	NH ₃	3917
C ₂ H ₆ O	3853, 3854	Mn(ClO ₄) ₂	C ₄ H ₁₀ O ₂	3918
C ₃ H ₅ O ₂ Cl	3855	»	C ₅ H ₄ O ₂	3919
C ₃ H ₈ O	3856	MnSO ₄	N ₂ H ₄	3920
C ₃ H ₈ O ₂	3857—3859	»	CH ₄ O	3921
C ₃ H ₈ O	3860, 3861	»	C ₂ H ₆ O	3922
C ₄ H ₅ O ₂ Cl ₃	3862, 3863	»	C ₂ H ₆ O ₂	3923
C ₄ H ₆ O ₂ Cl ₂	3864	MnC ₂ H ₁₀ N ₂ F ₅	C ₂ H ₄ O ₂	3924
C ₄ H ₇ O ₂ Cl	3865, 3866	»	C ₃ H ₆ O	3925
C ₄ H ₇ O ₂ Br	3867	MnC ₂ H ₁₂ N ₆ F ₆	C ₂ H ₄ O ₃	3926
C ₄ H ₈ O ₂	3868—3871	MnC ₂ H ₁₂ N ₆ F ₄	C ₂ H ₆ O	3927
C ₄ H ₁₀ O	3872—3877	MnC ₂ H ₁₂ N ₆ F ₅	C ₂ H ₄ O ₂	3928
C ₅ H ₁₀ O ₂	3878—3881	»	C ₂ H ₆ O	3929
C ₅ H ₁₂ O	3882, 3883	MnC ₄ H ₆ O ₄	CH ₄ O	3930
C ₆ H ₆	3884, 3885	MnC ₄ H ₁₂ NF ₄	C ₂ H ₄ O ₂	3931
C ₆ H ₁₂	3886	»	C ₂ H ₆ O	3932
C ₆ H ₁₂ O ₂	3887—3890	MnC ₅ H ₆ NF ₄	C ₂ H ₄ O ₂	3933
		»	C ₂ H ₆ O	3934

Component A	Component B	Table No.	Component A
MnC ₉ H ₈ NF ₄	C ₂ H ₄ O ₂	3935	Co(CNS) ₂
»	C ₂ H ₆ O	3936	Co(ClO ₄) ₂
MnC ₂₂ H ₃₀ O ₆	CH ₄ O	3937	»
»	C ₂ H ₆ O	3938	Co(NO ₂) ₂
FeF ₂	HF	3939	Co(NO ₃) ₂
FeF ₃	»	3940	CoSO ₄
FeCl ₃	CH ₄ O	3941	»
»	C ₂ H ₆ O	3942	H ₃ Co(CN) ₆
»	C ₃ H ₆ O	3943	»
»	Lanolin	3944	CoC ₂ O ₄
FeBr ₂	C ₅ H ₅ N	3945	CoC ₄ H ₆ O ₄
Fe(ClO ₄) ₂	C ₂ H ₆ O	3946	»
FeS	N ₂ H ₄	3947	CoC ₁₅ H ₃₀ N ₃ S ₆
FeSO ₄	C ₂ H ₆ O ₂	3948	NiF ₂
Fe ₂ (SO ₄) ₃	C ₂ H ₆ O	3949	NiCl ₂
Fe(NH ₄) ₂ C ₄ O ₈	CH ₄ O	3950	»
Fe(NH ₄) ₃ C ₆ O ₁₂	»	3951	»
Fe ₃ (OH) ₂ C ₇ H ₇ O ₁₄	C ₂ H ₆ O	3952	NiBr ₂
FeC ₁₅ H ₃₀ N ₃ S ₆	Various Solvents	3953	»
FeC ₃₄ H ₉₉ O ₆	C ₃ H ₈ O ₃	3954	Ni(ClO ₄) ₂
CoF ₂	HF	3955	»
CoF ₃	»	3956	Ni(NO ₃) ₂
CoCl ₂	N ₂ H ₄	3957	»
»	SO ₂	3958	NiSO ₄
»	SeOCl ₂	3959	»
»	CH ₂ O ₂	3960	»
»	CH ₄ O	3961	NiC ₄ H ₆ O ₄
»	C ₂ H ₅ N	3962	NiC ₁₀ H ₂₀ N ₂ S ₄
»	C ₂ H ₆ O	3963	PdCl ₂
»	C ₂ H ₆ O ₂	3964	OsO ₄
»	C ₃ H ₆ O	3965—3968	PtCl ₂
»	C ₃ H ₆ O ₂	3969	PtC ₁₀ H ₁₄ O ₄
»	C ₄ H ₈ O ₂	3970	»
»	C ₄ H ₁₀ O	3971	ThF ₄
»	C ₅ H ₅ N	3972, 3973	Th(NO ₃) ₄
»	Various Solvents	3974	»
CoBr ₂	CH ₄ O	3975	Th(SO ₄) ₂
»	C ₂ H ₆ O	3976	UF ₆
»	C ₃ H ₆ O	3977	»
»	C ₃ H ₆ O ₂	3978	»
CoI ₂	SO ₂	3979	»

Component B	Table No.	Component A	Component B	Table No.
SO ₂	3980	UF ₆	Br ₂	4023
C ₄ H ₁₀ O ₂	3981	UO ₂ (NO ₃) ₂	C ₂ H ₆ O	4024
C ₅ H ₄ O ₂	3982	»	C ₃ H ₆ O	4025
C ₅ H ₅ N	3983	»	C ₄ H ₁₀ O	4026
C ₂ H ₆ O ₂	3984	UO ₂ SO ₄	Various Solvents	4027
CH ₄ O	3985	UO ₂ C ₄ H ₆ O ₄	CH ₄ O	4028
C ₂ H ₆ O	3986	»	C ₃ H ₆ O	4029
CH ₄ O	3987	UO ₂ C ₂₂ H ₃₀ O ₆	Various Solvents	4030
C ₂ H ₆ O	3988	CF ₂ Cl ₂	»	4031, 4032
CH ₂ O ₂	3989	CFCI ₃	»	4033, 4034
N ₂ H ₄	3990	CF ₃ Br	CO ₂	4035
CH ₄ O	3991	CF ₂ Br ₂	»	4036
Various Solvents	3992	CCl ₄	CO	4037
HF	3993	»	COCl ₂	4038
N ₂ H ₄	3994	»	CO ₂	4039
C ₂ H ₆ O	3995, 3996	»	CHCl ₃	4040
C ₂ H ₆ O ₂	3997	»	CH ₂ O ₂	4041
CH ₄ O	3998	»	CH ₃ Cl	4042—4046
C ₃ H ₆ O	3999	»	CH ₄	4047
C ₄ H ₁₀ O ₂	4000	»	C ₂ HCl ₅	4048
C ₅ H ₄ O ₂	4001	»	C ₂ H ₂	4049
N ₂ H ₄	4002	»	C ₂ H ₄	4050
C ₂ H ₆ O ₂	4003	»	C ₂ H ₃ Cl	4051
CH ₄ O	4004	»	C ₂ H ₆	4052
C ₂ H ₆ O	4005, 4006	»	C ₂ H ₆ O	4053—4055
C ₂ H ₆ O ₂	4007	»	C ₃ H ₆ N ₆ O ₆	4056
C ₂ H ₄ O ₂	4008	»	C ₄ H ₆ O ₂	4057
Various Solvents	4009	»	C ₄ H ₁₀ O	4058
N ₂ H ₄	4010	»	C ₆ H ₄ Br ₂	4059
CCl ₄	4011	»	C ₆ H ₆	4060
N ₂ H ₄	4012	»	C ₆ H ₆ O ₂	4061—4063
C ₂ H ₆ O	4013	»	C ₆ H ₆ N ₂ O ₂	4064—4066
C ₆ H ₆	4014	»	C ₇ F ₁₄	4067
HF	4015	»	C ₇ F ₁₆	4068, 4069
C ₄ H ₁₀ O	4016	»	C ₇ H ₅ NO ₄	4070—4072
Various Solvents	4017	»	C ₇ H ₅ N ₃ O ₆	4073
CH ₄ O	4018	»	C ₇ H ₅ N ₅ O ₈	4074
HF	4019	»	C ₇ H ₆ O ₂	4075, 4076
ClF ₃	4020	»	C ₇ H ₆ O ₃	4077
BrF ₃	4021	»	C ₇ H ₆ O	4078
BrF ₅	4022	»	C ₇ H ₆ O ₂	4079

Component A	Component B	Table No.	Component A
CCl ₄	C ₇ H ₉ N	4080	CCl ₄
>	C ₈ H ₈ O ₃	4081	>
>	C ₈ H ₇ ClO	4082	>
>	C ₈ H ₉ NO	4083	>
>	C ₉ H ₈ O ₂	4084	>
>	C ₉ H ₈ O ₂ Br ₂	4085	>
>	C ₉ H ₈ O ₄	4086	>
>	C ₉ H ₁₁ NO	4087, 4088	>
>	C ₉ H ₁₀ O	4089	>
>	C ₁₀ H ₈	4090, 4091	>
>	C ₁₀ H ₈ O	4092	CBr ₄
>	C ₁₀ H ₁₆ O	4093	>
>	C ₁₁ H ₁₂ N ₂ O	4094	>
>	C ₁₂ H ₉ N	4095	>
>	C ₁₂ H ₁₀	4096	>
>	C ₁₂ H ₁₀ O	4097	CS ₂
>	C ₁₂ H ₂₈ NCl	4098	>
>	C ₁₃ H ₈ O ₂	4099	>
>	C ₁₃ H ₁₀	4100	>
>	C ₁₃ H ₁₀ O ₃	4101	>
>	C ₁₃ H ₂₆ O	4102	>
>	C ₁₄ H ₈ O ₂	4103	>
>	C ₁₄ H ₈ O ₄	4104	>
>	C ₁₄ H ₉ Cl ₅	4105	>
>	C ₁₄ H ₁₀	4106—4108	>
>	C ₁₄ H ₁₂ O	4109	>
>	C ₁₄ H ₁₂ O ₂	4110	>
>	C ₁₄ H ₁₄ S	4111	>
>	C ₁₄ H ₁₄ O ₂	4112	>
>	C ₁₅ H ₁₈ N ₂ S	4113	>
>	C ₁₅ H ₃₀ N ₃ PS	4114	>
>	C ₁₆ H ₁₂ N ₂ O ₃	4115	>
>	C ₁₆ H ₃₂ O ₂	4116	>
>	C ₁₇ H ₂₁ NO ₄	4117	>
>	C ₁₈ H ₂₁ NO ₃	4118	>
>	C ₁₈ H ₂₇ NS	4119	>
>	C ₁₈ H ₃₂ O ₂	4120	>
>	C ₁₈ H ₃₄ O ₂	4121	>
>	C ₁₈ H ₃₆ N ₃ OP	4122	>
>	C ₁₈ H ₃₆ N ₃ PS	4123	>
>	C ₁₉ H ₃₈ O	4124	>
>	C ₂₀ H ₁₆ N ₄	4125	CO

Component B	Table No.	Component A	Component B	Table No.
$C_{20}H_{21}NO_4$	4126, 4127	CO	C_3H_6O	4181
$C_{20}H_{23}NO_7$	4128	>	$C_3H_6O_2$	4182
$C_{20}H_{24}N_2O_2$	4129—4131	>	$C_4H_{10}O$	4183, 4184
$C_{21}H_{22}N_2O_2$	4132, 4133	>	C_6H_5Cl	4185
$C_{21}H_{24}N_3OP$	4134	>	C_6H_6	4186
$C_{23}H_{26}N_2O_4$	4135	>	Various Solvents	4187
$C_{23}H_{27}NO_3$	4136, 4137	COCl ₂	C_2HCl_3	4188
$C_{24}H_{30}NS$	4138	>	$C_2H_2Cl_4$	4189, 4190
$C_{32}H_{66}$	4139	>	$C_2H_4Cl_2$	4191
$C_{37}H_{110}O_6$	4140	>	C_6H_5Cl	4192, 4193
CS ₂	4141	>	$C_6H_5NO_2$	4194
CHCl ₃	4142	>	C_6H_6	4195
C_2HCl_3	4143	>	C_7H_8	4196, 4197
C_7H_9N	4144	>	C_8H_{10}	4198, 4199
$C_{12}H_{28}NCl$	4145	>	$C_8H_{10}O_2$	4200
CH ₂ O ₂	4146	>	$C_{10}H_7Cl$	4201
CH ₃ NO ₂	4147	>	$C_nH_pO_q$	4202—4206
CH ₄ O	4148—4150	COS	Various Solvents	4206
C_9H_3N	4151	CO ₂	CHCl ₃	4207
$C_2H_2O_2Cl_2$	4152	>	CHBr ₃	4208
$C_2H_4O_2$	4153	>	CH ₂ BrCl	4209
C_2H_6O	4154—4156	>	CH ₄	4210
C_3H_6O	4157	>	CH ₄ O	4211—4213
$C_4H_6O_3$	4158, 4159	>	C_2H_4	4214
$C_6H_3N_3O_6$	4160	>	$C_2H_4O_2$	4215
$C_6H_4Br_2$	4161	>	C_2H_3Br	4216
$C_7H_5N_3O_6$	4162	>	C_2H_6O	4217—4220
$C_7H_5N_3O_8$	4163	>	C_3H_6O	4221—4224
$C_8H_4O_2$	4164	>	$C_3H_6O_2$	4225
$C_{10}H_8$	4165	>	C_3H_7NO	4226
$C_{12}H_9N$	4166	>	$C_3H_7NO_2$	4227
$C_{12}H_{10}$	4167	>	C_3H_8O	4228, 4729
$C_{12}H_{11}N$	4168, 4169	>	$C_3H_8O_2$	4730
$C_{14}H_{10}$	4170—4172	>	$C_4H_6O_2$	4231, 4232
$C_{18}H_{15}N$	4173	>	$C_4H_{10}O$	4233—4235
$C_{19}H_{16}$	4174	>	C_5H_5N	4236
$C_{32}H_{66}$	4175	>	$C_5H_{12}O$	4237
$C_{33}H_{62}O_6$	4176	>	$C_6H_4Cl_2$	4238
$C_{39}H_{74}O_6$	4177	>	$C_6H_4NO_2Cl$	4239, 4240
$C_{45}H_{86}O_6$	4178	>	C_6H_5Cl	4241
$C_{57}H_{110}O_6$	4179	>	C_6H_5Br	4242
CH ₄ O	4180	>		

Component A	Component B	Table No.	Component A
CO ₂	C ₆ H ₅ NO ₂	4243	CHCl ₃
>	C ₆ H ₆	4244—4246	>
>	C ₆ H ₇ N	4247	>
>	C ₆ H ₁₂ O	4248	>
>	C ₇ H ₈ O	4249	>
>	C ₇ H ₈	4250	>
>	C ₇ H ₁₄ O ₂	4251	>
>	C ₈ H ₈	4252	>
>	C ₈ H ₁₀	4253	>
>	C ₁₀ H ₈	4254, 4255	>
>	C _n H _p O _q	4256—4259	>
CHF ₃	C ₂ H ₆	4260	>
CHF ₂ Cl	Various Solvents	4261	>
CHFCI ₂	>	4262, 4263	>
CHCl ₃	CH ₃ Cl	4264, 4265	>
>	C ₂ H ₃ O ₂ Cl ₃	4266	>
>	C ₂ H ₈ NCl	4267, 4268	>
>	C ₂ H ₈ N ₄ S ₂ I ₂	4269	>
>	C ₃ H ₆ O	4270	>
CHCl ₂	C ₃ H ₇ NO ₂	4271	>
CHCl ₃	C ₃ H ₁₀ NCl	4272	>
>	C ₄ H ₁₀ O	4273	>
>	C ₄ H ₁₂ NCl	4274, 4275	>
>	C ₄ H ₁₂ NBr	4276	>
>	C ₄ H ₁₂ NI	4277	>
>	C ₅ H ₁₄ NCl	4278	>
>	C ₆ H ₃ N ₃ O ₇	4279	>
>	C ₆ H ₃ N ₃ O ₉	4280	>
>	C ₆ H ₄ N ₂ O ₄	4281	>
>	C ₆ H ₈	4282	>
>	C ₆ H ₆ O ₂	4283, 4284	>
>	C ₆ H ₆ N ₂ O ₂	4285—4288	>
>	C ₆ H ₁₂ N ₄	4289	>
>	C ₆ H ₁₅ SI	4290	>
>	C ₆ H ₁₆ NCl	4291, 4292	>
>	C ₆ H ₁₆ NBr	4293	>
>	C ₆ H ₁₆ NI	4294	>
>	C ₇ F ₁₄	4295	>
>	C ₇ F ₁₆	4296	>
>	C ₇ H ₅ NO ₄	4297, 4298	>
>	C ₇ H ₅ N ₃ O ₆	4299	>
>	C ₇ H ₅ N ₅ O ₈	4300	>

Component B	Table No.	Component A	Component B	Table No.
C ₇ H ₆ O ₂	4301, 4302	CHCl ₃	C ₁₅ H ₁₈ N ₂ S	4362
C ₇ H ₆ O ₃	4303	>	C ₁₅ H ₃₀ N ₃ PS	4363
C ₇ H ₇ NO ₂	4304—4306	>	C ₁₇ H ₁₉ NO ₃	4364
C ₇ H ₈ O ₂	4307	>	C ₁₇ H ₂₁ NO ₄	4365
C ₇ H ₉ N	4308	>	C ₁₇ H ₂₂ NO ₄ Cl	4366
C ₈ H ₆ O ₃	4309	>	C ₁₈ H ₁₈ N ₃ OP	4367
C ₈ H ₈ O ₃	4310, 4311	>	C ₁₈ H ₂₁ NO ₃	4368—4369
C ₈ H ₉ NO	4312	>	C ₁₈ H ₂₁ N ₆ OP	4361
C ₈ H ₈ O ₂	4313	>	C ₁₈ H ₂₇ NS	4362
C ₈ H ₆ O ₃	4314	>	C ₁₈ H ₂₇ NO ₅	4363
C ₈ H ₉ O ₃ Br	4315	>	C ₁₈ H ₃₂ O ₂	4364
C ₈ H ₁₁ NO	4316, 4317	>	C ₁₈ H ₃₄ O ₂	4365
C ₈ H ₁₈ O	4318	>	C ₁₈ H ₃₆ N ₃ PS	4366
C ₁₀ H ₈	4319	>	C ₁₈ H ₃₆ N ₃ OP	4367
C ₁₀ H ₁₁ NO ₃	4320	>	C ₁₉ H ₁₆	4368
C ₁₆ H ₂₂ NO ₃ Br	4321	>	C ₁₉ H ₂₂ N ₂ O	4369—4371
C ₁₁ H ₁₂ NO ₂ Cl	4322	>	C ₁₉ H ₃₈ O	4372
C ₁₁ H ₁₂ NI	4323	>	C ₂₀ H ₁₆ N ₄	4373
C ₁₁ H ₁₂ N ₂ O	4324	>	C ₂₀ H ₂₄ N ₂ O ₂	4374—4376
C ₁₂ H ₉ N	4325	>	C ₂₀ H ₂₅ N ₂ O ₂ Cl	4377
C ₁₂ H ₁₀	4326	>	Quinine salts	4378, 4379
C ₁₂ H ₂₈ NCl	4327	>	C ₂₀ H ₂₇ NO	4380
C ₁₃ H ₆ NO ₃ Br	4328	>	C ₂₀ H ₂₈ O ₅	4381
C ₁₃ H ₆ O ₂	4329	>	C ₂₁ H ₂₂ NCl	4382
C ₁₃ H ₈ NOCl	4330	>	C ₂₁ H ₂₂ N ₂ O ₂	4383
C ₁₃ H ₈ NOBr	4331	>	C ₂₁ H ₂₃ N ₂ O ₂ Cl	4384
C ₁₃ H ₈ NO ₂ Cl	4332	>	C ₂₁ H ₂₃ N ₃ O ₅	4385
C ₁₃ H ₈ NO ₂ Br	4333	>	C ₂₁ H ₂₅ N ₂ O ₈ As	4386
C ₁₃ H ₈ NO ₃ Cl	4334	>	C ₂₁ H ₂₄ N ₃ OP	4387—4389
C ₁₃ H ₁₀ NCl	4335	>	C ₂₃ H ₂₆ N ₂ O ₄	4390
C ₁₃ H ₁₀ NBr	4336	>	C ₂₄ H ₃₀ N ₃ O ₄ P	4391
C ₁₃ H ₁₀ NOBr	4337	>	C ₂₄ H ₃₉ NS	4392
C ₁₃ H ₂₆ O	4338	>	C ₂₈ H ₄₆ N ₆ O ₆ S	4393, 4394
C ₁₄ H ₈ O ₂	4339, 4340	>	C ₃₉ H ₇₄ O ₈	4395
C ₁₄ H ₈ O ₄	4341	>	C ₄₂ H ₄₆ N ₄ O ₈ S	4396—4398
C ₁₄ H ₉ Cl ₅	4342	>	C ₄₅ H ₈₆ O ₆	4399
C ₁₄ H ₁₀	4343—4345	>	C ₅₁ H ₉₈ O ₈	4400
C ₁₄ H ₁₂ O	4346	>	C ₅₇ H ₁₁₀ O ₈	4401, 4402
C ₁₄ H ₁₂ O ₂	4347	>	Acetyl -	4403
C ₁₄ H ₁₄ S	4348, 4349	>	cellulose	
C ₁₄ H ₁₄ O ₂	4350	>	Various Solvents	4404
C ₁₄ H ₁₆ NCl	4351	CHCl ₂ Br	CH ₂ O ₂	4405

Component A	Component B	Table No.	Component A
CHBr ₃	CH ₂ O ₂	4406	CH ₂ O ₂
>	C ₇ H ₈	4407	>
>	C ₇ H ₉ N	4408	>
>	C ₁₂ H ₂₈ NCl	4409	>
CHI ₃	C ₇ H ₉ N	4410	CH ₃ Cl
>	C ₁₀ H ₈	4411	>
>	Various Solvents	4412	>
CH ₂ FCI	"	4413	>
CH ₂ Cl ₂	>	4414, 4415	>
CH ₂ I ₂	C ₆ H ₁₂	4416	>
CH ₂ O ₂	CH ₄ N ₂ O	4417, 4418	>
>	C ₂ H ₂ O ₄	4419	>
>	C ₃ H ₄ O ₄	4420	>
>	C ₄ H ₅ NS	4421	>
>	C ₄ H ₆ O ₄	4422, 4423	CH ₃ NO
>	C ₅ H ₄ N ₄ O ₃	4424	>
>	C ₆ H ₃ N ₃ O ₇	4425	CH ₃ NO ₂
>	C ₆ H ₄ N ₂ O ₄	4426	>
>	C ₆ H ₅ NO ₃	4427	>
>	C ₆ H ₆	4428, 4429	CH ₄
>	C ₆ H ₆ O ₂	4430	>
>	C ₆ H ₆ O ₆	4431	>
>	C ₆ H ₆ O ₇	4432	>
>	C ₆ H ₁₀ O ₄	4433	>
>	C ₇ H ₆ O ₃	4434	>
>	C ₇ H ₆ O ₅	4435	>
>	C ₈ H ₄ O ₉	4436	>
>	C ₈ H ₆ O ₄	4437	>
>	C ₈ H ₇ N ₃ O ₆	4438	>
>	C ₈ H ₈ O ₂	4439	>
>	C ₈ H ₈ O ₃	4440	>
>	C ₈ H ₁₄ O ₄	4441	>
>	C ₉ H ₈ O ₂	4442	>
>	C ₉ H ₁₆ O ₄	4443	>
>	C ₁₀ H ₇ NO ₂	4444	>
>	C ₁₀ H ₈	4445	>
>	C ₁₀ H ₈ O	4446	>
>	C ₁₀ H ₈ O ₄	4447	>
>	C ₁₀ H ₁₇ Cl	4448	>
>	C ₁₀ H ₁₆ O	4449	>
>	C ₁₄ H ₈ O ₄	4450	CH ₄ O
>	C ₁₄ H ₁₀	4451	

Component B	Table No.	Component A	Component B	Table No.
$C_{14}H_{12}O_2$	4452	CH_4O	CH_4N_2O	4521—4525
$C_{16}H_{10}O_2$	4453	»	$C_2H_2O_4$	4526
$C_{17}H_{12}O_2$	4454	»	C_2H_6O	4527
Various Solvents	4455, 4456	»	$C_3H_4O_4$	4528
C_2HCl_5	4457	»	$C_3H_5NO_3$	4529
$C_2H_2Cl_2$	4458	»	C_3H_6O	4530, 4531
$C_2H_4Cl_2$	4459	»	$C_3H_6N_6O_6$	4532
$C_2H_4O_2$	4460	»	$C_3H_7NO_2$	4533
C_2H_6O	4461	»	C_3H_8	4534
C_3H_6O	4462	»	$C_4H_6O_4$	4535
$C_3H_8O_2$	4463	»	C_4H_{10}	4536, 4537
C_6H_5Cl	4464	»	$C_4H_{10}O$	4538
C_6H_6	4465, 4466	»	$C_5H_8N_4O_{12}$	4539
Various Solvents	4467	»	$C_5H_9NO_3$	4540
CH_4O	4468	»	$C_5H_9NO_4$	4541
$C_6H_5NO_2$	4469	»	$C_5H_{11}NO_2$	4542
$C_4H_{10}O$	4470	»	C_6Br_2	4543
$C_5H_{12}O$	4471, 4472	»	$C_6H_3N_3O_7$	4544
$C_{18}H_{34}O_2$	4473	»	$C_6H_3N_3O_9$	4545
CH_4O	4474, 4475	»	C_6H_6	4546, 4547
$C_2H_4Cl_2$	4476	»	$C_6H_8N_2O_5$	4548
C_2H_4O	4477	»	$C_6H_8O_7$	4549
C_2H_6O	4478—4480	»	$C_6H_{10}O_6$	4550
C_3H_6O	4481, 4482	»	C_6H_{12}	4551—4554
$C_3H_6O_2$	4483	»	$C_6H_{12}O_5$	4555
C_3H_8	4484	»	$C_6H_{12}O_6$	4556—4558
C_3H_8O	4485—4487	»	C_6H_{14}	4559, 4560
C_4H_{10}	4488, 4489	»	$C_6H_{14}O_6$	4561
$C_4H_{10}O$	4490	»	$C_7H_3Br_5$	4562
C_5H_{12}	4491, 4492	»	$C_7H_6O_2$	4563
C_6H_5Cl	4493	»	$C_7H_6O_3$	4564—4566
C_6H_6	4494—4498	»	$C_7H_7NO_2$	4567—4569
C_6H_{12}	4499—4501	»	$C_7H_{14}O_6$	4570
C_6H_{14}	4502—4505	»	C_7H_{16}	4571
C_7H_8	4506	»	$C_8H_8O_3$	4572, 4573
C_7H_{16}	4507	»	C_8H_9NO	4574
C_8H_{10}	4508, 4509	»	$C_8H_{14}O_4$	4575
C_8H_{18}	4510	»	C_8H_{18}	4576
$C_{10}H_{22}$	4511	»	$C_9H_{11}NO$	4577, 4578
$C_{10}H_pO_q$	4512—4519	»	$C_9H_{18}O$	4579
CH_4N_2S	4520	»	C_9H_{20}	4580
			$C_{10}H_4N_8O_6Cl$	4581

Component A	Component B	Table No.	Component A
CH ₄ O	C ₁₀ H ₅ N ₂ O ₄ Cl	4582	CH ₄ N ₂ O
>	C ₁₀ H ₆ N ₂ O ₄	4583, 4584	>
>	C ₁₀ H ₈	4585, 4586	CH ₃ N
>	C ₁₀ H ₁₂ N ₂ S	4587	CH ₇ N ₂ O ₃ P
>	C ₁₀ H ₁₂ NO ₈	4588	C ₂ F ₄ Cl ₂
>	C ₁₀ H ₁₆ O	4589	C ₂ F ₃ Cl ₃
>	C ₁₂ H ₁₀	4590, 4591	C ₂ Cl ₂
>	C ₁₂ H ₁₁ N	4592	>
>	C ₁₃ H ₁₀	4593	C ₂ Cl ₆
>	C ₁₃ H ₂₀ O	4594	>
>	C ₁₄ H ₁₀	4595	>
>	C ₁₆ H ₃₂ O ₂	4596	>
>	C ₁₇ H ₁₉ NO ₃	4597	>
>	C ₁₈ H ₁₅ N	4598	>
>	C ₁₈ H ₂₁ NO ₃	4599	>
>	C ₁₈ H ₂₃ NO ₇ S	4600	>
>	C ₁₈ H ₂₇ NS	4601	C ₂ Br ₂
>	C ₁₈ H ₃₂ O ₂	4602	C ₂ HCl ₃
>	C ₁₈ H ₃₄ O ₂	4603	>
>	C ₁₉ H ₂₂ N ₂ O	4604, 4605	>
>	C ₁₉ H ₃₈ O	4606	>
>	C ₂₀ H ₂₄ N ₂ O ₂	4607, 4608	>
>	C ₂₁ H ₂₂ N ₂ O ₂	4609	>
>	C ₂₁ H ₂₃ N ₃ O ₅	4610	>
>	C ₂₃ H ₂₈ N ₂ O ₄	4611	>
>	C ₂₄ H ₃₉ NS	4612	>
>	C ₃₈ H ₄₆ N ₄ O ₆ S	4613, 4614	>
>	C ₄₂ H ₄₆ N ₄ O ₈ S	4615	>
>	Various Solvents	4616—4619	>
CH ₄ N ₂ S	C ₂ H ₆ O	4620	C ₂ HO ₂ Cl ₃
>	C ₅ H ₅ N	4621	C ₂ H ₂
CH ₄ N ₂ O	C ₂ H ₁₀ O ₂	4622, 4623	>
>	C ₂ H ₆ O	4624—4626	>
>	C ₃ H ₈ O ₂	4627	>
>	C ₃ H ₈ O ₃	4628	>
>	C ₄ H ₈ O ₂	4629	>
>	C ₄ H ₁₀ O	4630	>
>	C ₅ H ₅ N	4631	>
>	C ₅ H ₁₀ O ₂	4632	>
>	C ₈ H ₆ O ₂	4633—4634	>
>	C ₈ H ₈ O ₂	4635	>
>	C ₉ H ₁₈ O ₂	4636	>

Component B	Table No.	Component A	Component B	Table No.
$C_{12}H_{24}O_2$	4637	C_2H_2	$C_6H_{10}O_3$	4684
$C_nH_{2n+2}O$	4638	>	$C_6H_{12}O$	4685
Various Solvents	4639	>	$C_6H_{12}O_2$	4686
C_2H_6O	4640	>	$C_7H_{14}O_3$	4687
Various Solvents	4641	>	Various Solvents	4688—4692
>	4642	$C_2H_2Cl_2$	$C_6H_8O_7$	4693
$C_4H_4O_4$	4643, 4644	>	$C_7H_8O_3$	4694
$C_5H_6O_4$	4645, 4646	$C_2H_2Cl_4$	$C_{10}H_8$	4695
$C_4H_6O_2Cl_3$	4647	C_2H_2O	C_3H_8O	4696
$C_6H_4Cl_2$	4648	$C_2H_2O_4$	C_2H_6O	4697
C_6H_8	4649	>	$C_3H_8O_3$	4698
$C_8F_{18}O$	4650	>	$C_4H_{10}O$	4699—4702
$C_9F_{21}N$	4651	C_2H_3Cl	$C_2H_4Cl_2$	4703, 4704
$C_{10}H_8$	4652	>	C_2H_6O	4705
$C_{14}H_{10}$	4653	>	C_3H_7NO	4706
$C_6H_8N_2O_2$	4654, 4655	>	C_4H_8O	4707
$C_4H_8N_2O_3$	4656	>	$C_7H_{12}O$	4708
$C_6H_8O_7$	4657	>	$C_{18}H_{21}NO_3$	4709
$C_6H_{12}O_6$	4658	>	$C_nH_pO_q$	4710—4712
$C_7H_4NO_3S$	4659	$C_2H_3O_2Cl_3$	C_2H_6O	4713, 4714
$C_7H_6O_3$	4660	>	$C_3H_8O_3$	4715
$C_{10}H_{30}O_5$	4661	>	$C_4H_{10}O$	4716
$C_{12}H_{18}O_7$	4662	>	C_5H_5N	4717
$C_{12}H_{22}O_{11}$	4663	>	C_7H_8	4718
$C_{14}H_{10}O_9$	4664	>	C_9H_7N	4719
$C_{17}H_{19}NO_3$	4665	>	Oil	4720
$C_{18}H_{22}NO_3Cl$	4666	C_2H_3N	$C_9H_{18}O$	4721
$C_{20}H_{23}NO_7$	4667	>	$C_{13}H_{26}O$	4722
$C_{23}H_{26}N_2O_4$	4668	>	$C_{18}H_{27}N_5$	4723
$C_{10}H_{12}N_2S$	4669	>	$C_{18}H_{32}O_2$	4724
$C_2H_4Cl_2$	4670	>	$C_{18}H_{34}O_2$	4725
C_2H_6O	4671	>	$C_{19}H_{38}O$	4726
C_3H_6O	4672, 4673	>	$C_{24}H_{39}NS$	4727
$C_3H_6O_2$	4674	C_2H_4	$C_2H_4Cl_2$	4728
C_3H_7NO	4675, 4676	>	C_2H_6O	4729
$C_4H_8O_2$	4677, 4678	>	C_3H_6O	4730, 4731
C_4H_9NO	4679	>	$C_3H_6O_2$	4732
C_5H_9NO	4680	>	C_6H_5Cl	4733
C_6H_5Cl	4681	>	C_6H_8	4734, 4735
C_6H_6	4682	>	$C_6H_{12}O$	4736
$C_6H_{10}O$	4683	>	C_6H_{14}	4737, 4738

Component A	Component B	Table No.	Component A
C ₂ H ₄	C ₇ H ₁₆	4739, 4740	C ₂ H ₄ O ₂
»	C ₈ H ₈	4741	»
»	C ₈ H ₁₀	4742	»
»	C ₁₀ H ₈	4743, 4744	»
»	C _n H _p O _q	4745—4747	»
C ₂ H ₄ Cl ₂	C ₂ H ₅ Cl	4748	-
»	C ₃ H ₈	4749	»
»	C ₄ H ₈	4750	»
»	C ₁₀ H ₈	4751, 4752	»
»	C ₁₁ H ₁₂ N ₂ O	4753	»
»	C ₁₃ H ₁₀	4754	»
»	C ₁₆ H ₁₈ N ₄ O ₃	4755	C ₂ H ₄ N ₄
»	C ₁₇ H ₁₆ N ₂ O ₃	4756	»
»	C ₁₈ H ₁₆ N ₄ O	4757	C ₂ H ₅ Cl
»	C ₁₈ H ₃₄ O ₂	4758	C ₂ H ₅ Br
»	C ₂₂ H ₁₆ N ₂ O ₂	4759	C ₂ H ₅ NO
»	C ₂₄ H ₂₁ N ₅	4760	»
»	C ₂₇ H ₂₄ N ₂ O ₆ S ₂ Na	4761	»
»	C ₂₈ H ₂₂ N ₂ O ₄	4762	»
»	Acetyl- cellulose	4763	»
C ₂ H ₄ Br ₂	C ₆ H ₅ NO ₃	4764, 4765	»
»	C ₁₀ H ₈	4766, 4767	»
C ₂ H ₄ S ₂	Various Solvents	4768	»
C ₂ H ₄ O	C ₂ H ₄ Cl ₂	4769	»
»	C ₂ H ₆ O	4770	C ₂ H ₅ NO ₂
C ₂ H ₄ O ₂	C ₂ H ₅ NO	4771	»
»	C ₂ H ₆ O	4772	»
»	C ₃ H ₇ NO ₃	4773	»
»	C ₃ H ₈ O	4774	»
»	C ₃ H ₉ PO ₄	4775	»
»	C ₅ H ₅ N	4776	»
»	C ₅ H ₈ NO ₃	4777	C ₂ H ₆
»	C ₅ H ₁₁ NO ₂ S	4778	»
»	C ₆ H ₅ NO ₂	4779	»
»	C ₆ H ₆	4780	»
»	C ₆ H ₆ O ₂	4781	»
»	C ₆ H ₇ N	4782	»
»	C ₆ H ₁₂	4783	»
»	C ₇ H ₉ N	4784	»
»	C ₈ H ₇ NOCl ₂	4785	»
»	C ₈ H ₈ O ₂	4786	»

Component B	Table No.	Component A	Component B	Table No.
$C_8H_8N_2O_3$	4787	C_2H_6	Various Solvents	4834
$C_{10}H_8$	4788, 4789	C_2H_6O	$C_3H_4NO_2Cl_3$	4835
$C_{10}H_{12}N_2S$	4790	»	$C_3H_4O_4$	4836
$C_{10}H_{16}O$	4791	»	$C_3H_5N_3O_9$	4837
$C_{11}H_{12}N_2O_2$	4792	»	C_3H_6O	4838, 4839
$C_{13}H_{10}$	4793	»	$C_3H_6O_2$	4840
$C_{14}H_{10}$	4794, 4795	»	$C_3H_6N_6O_6$	4841
$C_{16}H_{18}N_2O_2$	4796	»	$C_3H_7NO_2$	4842
$C_{18}H_{36}O_2$	4797	»	C_3H_8	4843
$C_{18}H_{39}N$	4798	»	$C_3H_8N_2O$	4844
$C_nH_pO_q$	4799-4801	»	$C_4H_4NO_2$	4845
C_2H_6O	4802	»	$C_4H_5NO_2$	4846
$C_4H_{10}O$	4803	»	$C_4H_6O_4$	4847, 4848
Various Solvents	4804, 4805	»	$C_4H_6O_8$	4849
$C_4H_{10}O$	4806	»	C_4H_8	4850, 4851
$C_3H_9PO_4$	4807	»	$C_4H_8SCL_2$	4852, 4853
C_2H_6O	4808	»	$C_4H_8O_2$	4854
C_6H_6	4809	»	$C_4H_8N_2O_3$	4855, 4856
C_7H_9N	4810	»	C_4H_{10}	4857, 4858
$C_{12}H_{24}O_2$	4811	»	$C_4H_{10}O$	4859
$C_{14}H_{28}O_2$	4812	»	$C_5H_4N_4O_3$	4860
$C_{16}H_{32}O_2$	4813	»	$C_5H_8N_4O_{12}$	4861, 4862
$C_{18}H_{34}O_2$	4814, 4815	»	$C_5H_9NO_4$	4863
$C_{18}H_{36}O_2$	4816	»	$C_5H_{11}NO_2$	4864
C_2H_6O	4817	»	C_6Br_6	4865
C_5H_3N	4818	»	$C_6H_3N_3O_7$	4866, 4867
C_7H_9N	4819	»	$C_6H_3N_3O_9$	4868
C_8H_{18}	4820	»	$C_6H_4Br_2$	4869, 4870
$C_{18}H_{32}O_2$	4821	»	C_6H_5Cl	4871
$C_{18}H_{34}O_2$	4822	»	$C_6H_5NO_2$	4872, 4873
Various Solvents	4823	»	$C_6H_5NO_3$	4874-4876
C_3H_6O	4824	»	C_6H_6	4877-4879
$C_3H_6O_2$	4825	»	C_6H_6O	4880
$C_4H_8O_2$	4826	»	$C_6H_6O_2$	4881-4885
C_6H_5Cl	4827	»	$C_6H_6O_3$	4886
C_6H_6	4828	»	$C_6H_8N_2O_2$	4887-4889
$C_6H_{12}O$	4829	»	$C_6H_8N_2O_5$	4890
C_6H_{14}	4830	»	$C_6H_{10}O_n$	4891
$C_7H_{14}O_2$	4831	»	$C_6H_{12}O_3$	4892
C_7H_{16}	4832	»	$C_6H_{12}O_6$	4893, 4894
$C_nH_{2n+2}O$	4833	»	$C_6H_{12}N_2O_3$	4895

Component A	Component B	Table No.	Component A
C ₂ H ₆ O	C ₆ H ₁₂ N ₄	4896	C ₂ H ₆ O
»	C ₆ H ₁₄	4897	»
»	C ₆ H ₁₄ O ₆	4898	»
»	C ₇ H ₃ Br ₅	4899	»
»	C ₇ H ₅ NO ₃	4900	»
»	C ₇ H ₅ NO ₃ S	4901	»
»	C ₇ H ₅ N ₃ O ₆	4902, 4903	»
»	C ₇ H ₅ N ₃ O ₈	4904	»
»	C ₇ H ₆ O ₂	4905—4907	»
»	C ₇ H ₆ O ₃	4908—4910	»
»	C ₇ H ₆ N ₂ O ₄	4911	»
»	C ₇ H ₇ NO	4912, 4913	»
»	C ₇ H ₇ NO ₂	4914—4916	»
»	C ₇ H ₈	4917	»
»	C ₇ H ₈ O	4918	»
»	C ₇ H ₈ N ₄ O ₂	4919	»
»	C ₇ H ₉ N	4920, 4921	»
»	C ₇ H ₁₀ NCl	4922	»
»	C ₇ H ₁₄ O ₆	4923	»
»	C ₇ H ₁₆	4924	»
»	C ₇ H ₁₆ O ₄ S ₂	4925	»
»	C ₈ H ₇ ClO	4926	»
»	C ₈ H ₇ N	4927	»
»	C ₈ H ₇ NOCl ₂	4928	»
»	C ₈ H ₇ NOClBr	4929, 4930	»
»	C ₈ H ₇ NOBr ₂	4931	»
»	C ₈ H ₈ O	4932	»
»	C ₈ H ₈ O ₂	4933	»
»	C ₈ H ₈ O ₃	4934—4937	»
»	C ₈ H ₈ NOCl	4939	»
»	C ₈ H ₈ NOBr	4940	»
»	C ₈ H ₉ NO	4938, 4941	»
»	C ₈ H ₁₂ N ₂ O ₃	4942	»
»	C ₈ H ₁₄ O ₄	4943	»
»	C ₉ H ₆ O ₂	4944	»
»	C ₉ H ₆ O ₂	4945	»
»	C ₉ H ₈ O ₄	4946	»
»	C ₉ H ₉ NO ₂	4947	»
»	C ₉ H ₁₁ NO	4948, 4949	»
»	C ₉ H ₁₈ O	4950	»
»	C ₁₀ H ₄ N ₃ O ₆ Cl	4951	»
»	C ₁₀ H ₅ N ₂ O ₄ Cl	4952	»

Component B	Table No.	Component A	Component B	Table No.
$C_{10}H_7NO_2$	4953	C_2H_6O	$C_{15}H_{23}N_2OCl$	5007
$C_{10}H_8$	4954, 4955	>	$C_{15}H_{23}N_2OI$	5008
$C_{10}H_8O$	4956	>	$C_{15}H_{23}N_2O_4S$	5009
$C_{10}H_{12}N_2S$	4957	>	$C_{15}H_{34}NCl$	5010
$C_{10}H_{13}NO_3$	4958, 4959	>	$C_{16}H_{10}$	5011
$C_{10}H_{14}O$	4960	>	$C_{16}H_{13}O_2Br$	5012
$C_{10}H_{15}N_2Cl$	4961	>	$C_{16}H_{16}N_4O_5$	5013
$C_{10}H_{15}N_2I$	4962	>	$C_{16}H_{22}NO_3Br$	5014
$C_{10}H_{20}O$	4963	>	$C_{16}H_{32}O_2$	5015
$C_{10}H_{20}O_2$	4964	>	$C_{17}H_{16}N_2O_3$	5016
$C_{11}H_{12}N_2O$	4965—4968	>	$C_{17}H_{18}NO_2Cl$	5017, 5018
$C_{12}H_6N$	4969, 4970	>	$C_{17}H_{19}NO_3$	5019
$C_{12}H_{10}$	4971, 4972	>	$C_{17}H_{20}N_2O$	5020
$C_{12}H_{10}N_2$	4973	>	$C_{17}H_{21}NO_4$	5021
$C_{12}H_{11}N$	4974	>	$C_{17}H_{22}NO_4$	5022
$C_{12}H_{12}N_2$	4975	>	$C_{18}H_{12}$	5023
$C_{12}H_{22}O_8$	4976	>	$C_{18}H_{15}N$	5024
$C_{12}H_{22}O_{11}$	4977	>	$C_{18}H_{15}O_7As$	5025
$C_{12}H_{28}NCl$	4978, 4979	>	$C_{18}H_{18}N_4O$	5026
$C_{13}H_6NO_3Cl$	4980	>	$C_{18}H_{21}NO_3$	5027
$C_{13}H_6NO_3Br$	4981	>	$C_{18}H_{24}NO_7P$	5028
$C_{13}H_8NOCl$	4982	>	$C_{18}H_{23}NO_7S$	5029
$C_{13}H_8NOBr$	4983	>	$C_{18}H_{26}NO_3Br$	5030
$C_{13}H_8NO_2Cl$	4984	>	$C_{18}H_{27}NS$	5031
$C_{13}H_8NO_2Br$	4985	>	$C_{18}H_{27}NO_5$	5032
$C_{13}H_9N_3O_2Cl_2$	4986	>	$C_{18}H_{32}O_2$	5033
$C_{13}H_9N_3O_2ClBr$	4987, 4988	>	$C_{18}H_{32}O_{16}$	5034
$C_{13}H_{10}$	4989	>	$C_{18}H_{34}O_2$	5035
$C_{13}H_{10}O$	4990	>	$C_{18}H_{36}O_2$	5036
$C_{13}H_{10}NCl$	4991	>	$C_{19}H_{22}N_2O$	5037—5040
$C_{13}H_{10}NBr$	4992	>	$C_{19}H_{23}NO_3$	5041
$C_{13}H_{10}NOBr$	4993	>	$C_{19}H_{24}NO_3Cl$	5042
$C_{13}H_{12}N_2O$	4994	>	$C_{19}H_{38}O$	5043
$C_{13}H_{21}N_2O_3Cl$	4995	>	$C_{20}H_{13}N_3O_7$	5044
$C_{13}H_{20}O$	4996	>	$C_{20}H_{14}O_4$	5045
$C_{13}H_{30}NCl$	4997	>	$C_{20}H_{24}N_2O_2$	5046—5054
$C_{14}H_8O_2$	4998, 4999	>	$C_{20}H_{29}O_3Cl$	5055
$C_{14}H_9Cl_5$	5000	>	$C_{20}H_{29}O_3Br$	5056
$C_{14}H_{10}$	5001—5003	>	$C_{20}H_{30}O_3$	5057
$C_{14}H_{12}N_2O$	5004	>	$C_{20}H_{26}O_5$	5058
$C_{14}H_{32}NCl$	5005	>	$C_{21}H_{18}N_2$	5059
$C_{15}H_{22}NO_2Cl$	5006	>	$C_{21}H_{22}N_2O_2$	5060—5066

Component A	Component B	Table No.	Component A
C ₂ H ₆ O	C ₂₁ H ₂₆ N ₂ O ₃	5067	C ₂ H ₆ O
>	C ₂₂ H ₁₆ N ₂ O ₂	5068	>
>	C ₂₂ H ₃₃ O ₃ Cl	5069	C ₂ H ₆ O ₂
>	C ₂₂ H ₃₃ O ₃ Br	5070	>
>	C ₂₂ H ₃₄ O ₃	5071	>
>	C ₂₂ H ₄₂ O ₂	5072	>
>	C ₂₃ H ₂₆ N ₂ O ₄	5073	>
>	C ₂₃ H ₃₈ O ₂	5074	C ₂ H ₆ O ₄ S
>	C ₂₄ H ₂₁ N ₅	5075	C ₂ H ₇ N
>	C ₂₅ H ₂₄ N ₄ O ₁₀	5076	C ₂ H ₈ N ₂
>	C ₂₄ H ₃₇ O ₃ Cl	5077	>
>	C ₂₄ H ₃₇ O ₃ Br	5078	>
>	C ₂₄ H ₃₈ O ₃	5079	>
>	C ₂₄ H ₃₉ NS	5080	>
>	C ₂₅ H ₂₄ N ₄ O ₁₀	5081	>
>	C ₂₅ H ₄₂ O ₂	5082	>
>	C ₂₆ H ₂₄ N ₄ O ₁₁	5083	>
>	C ₂₆ H ₄₁ O ₃ Cl	5084	C ₃ H ₂ O ₂ Cl
>	C ₂₆ H ₄₁ O ₃ Br	5085	C ₃ H ₄ O ₄
>	C ₂₆ H ₄₂ O ₃	5086	>
>	C ₂₇ H ₂₄ N ₂ O ₆ S ₂ Na	5087	>
>	C ₂₈ H ₂₂ N ₂ O ₄	5088	C ₃ H ₅ N
>	C ₂₈ H ₄₅ O ₃ Cl	5089	C ₃ H ₉ NO ₃
>	C ₂₈ H ₄₅ O ₃ Br	5090	C ₃ H ₅ N ₃ O ₉
>	C ₂₈ H ₄₆ O ₃	5091	C ₃ H ₆
>	C ₃₀ H ₄₈ O ₃	5092	>
>	C ₃₀ H ₄₉ O ₃ Cl	5093	C ₃ H ₆ O
>	C ₃₀ H ₄₉ O ₃ Br	5094	>
>	C ₃₀ H ₅₀ O ₃	5095	>
>	C ₃₂ H ₆₂ O ₃	5096	>
>	C ₃₃ H ₆₂ O ₆	5097	>
>	C ₃₆ H ₇₀ O ₃	5098	>
>	C ₃₈ H ₄₈ N ₄ O ₆ S	5099 5100	>
>	C ₃₉ H ₇₄ O ₆	5101 5102	>
>	C ₄₂ H ₄₆ N ₄ O ₈ S	5103, 5104	>
>	C ₄₃ H ₅₅ N ₄ O ₁₀ P	5105	>
>	C ₄₆ H ₅₉ N ₄ O ₁₀	5106	>
>	C ₄₆ H ₉₄ O ₆	5107	>
>	C ₅₃ H ₁₀₂ O ₆	5108	>
>	C ₅₅ H ₁₀₆ O ₆	5109	>
>	C ₅₇ H ₁₁₀ O ₆	5110, 5111	>
>	R ₂ PO ₂ Me	5112	>

Component B	Table No.	Component A	Component B	Table No.
$C_nH_{2n}O_3$	5113	C_3H_8O	$C_6H_{14}O_6$	5178
Various Solvents	5114—5122	>	$C_7H_5NO_4$	5179, 5180
$C_4H_{11}N$	5123—5125	>	$C_7H_5N_3O_6$	5181
C_6H_8	5126, 5127	>	$C_7H_6O_2$	5182
C_6H_{12}	5128	>	$C_7H_6O_3$	5183, 5184
C_7H_{16}	5129	>	$C_7H_{10}NCl$	5185
$C_{10}H_{16}O$	5130	>	$C_7H_{14}O_6$	5186
$C_{10}H_{16}$	5131	>	$C_6H_{11}NO$	5187
$C_3H_8O_3$	5132	>	$C_9H_{18}O$	5188
$C_4H_2O_3$	5133	>	$C_{10}H_6N_2O_4$	5189, 5190
$C_4H_4O_4$	5134	>	$C_{10}H_8$	5191
$C_4H_{10}O$	5135—5138	>	$C_{10}H_{15}N_2Cl$	5192
C_6H_{12}	5139	>	$C_{10}H_{15}N_2I$	5193
C_6H_{14}	5140	>	$C_{10}H_{22}$	5194
$C_7H_8O_2$	5141	>	$C_{12}H_9N$	5195
$C_7H_8O_3$	5142	>	$C_{13}H_{10}$	5196
$C_8H_8O_4$	5143	>	$C_{13}H_{26}O$	5197
Oil	5144	>	$C_{14}H_9Cl_5$	5198
C_3H_8O	5145	>	$C_{14}H_{10}$	5199—5201
$C_4H_{10}O$	5146, 5147	>	$C_{15}H_{23}N_2OCl$	5202
C_6H_8	5148	>	$C_{15}H_{23}N_2OI$	5203
C_6H_{12}	5149	>	$C_{16}H_{18}N_4O_3$	5204
$C_7H_{16}O$	5150	>	$C_{17}H_{16}N_2O_3$	5205
$C_7H_5N_3O_6$	5151	>	$C_{19}H_{18}N_4O$	5206
C_8H_{10}	5152	>	$C_{18}H_{27}NS$	5208
$C_nH_pO_q$	5153—5155	>	$C_{18}H_{32}O_2$	5209
$C_3H_8N_6O_6$	5156	>	$C_{18}H_{34}O_2$	5210
C_3H_8	5157	>	$C_{19}H_{22}N_2O$	5211
$C_3H_8O_3$	5158	>	$C_{19}H_{38}O$	5212
$C_4H_4O_4$	5159, 5160	>	$C_{20}H_{23}NO_7$	5213
$C_4H_6O_4$	5161	>	$C_{20}H_{24}N_2O_2$	5214
$C_4H_{10}O$	5162	>	$C_{20}H_{24}N_2O_2Bi_2I_6$	5215
$C_5H_8N_4O_{12}$	5163, 5164	>	$C_{21}H_{22}N_2O_2$	5216
$C_5H_9NO_4$	5165	>	$C_{22}H_{16}N_2O_2$	5217
$C_6H_5NO_3$	5166, 5167	>	$C_{24}H_{24}N_5$	5218
C_6H_8	5168	>	$C_{24}H_{24}N_4O_4$	5219
$C_6H_8O_2$	5169—5171	>	$C_{24}H_{39}N_5$	5220
$C_6H_6N_2O_2$	5172—5174	>	$C_{25}H_{24}N_4O_{10}$	5221
$C_8H_{10}O_6$	5175	>	$C_{26}H_{24}N_4O_{11}$	5222
$C_6H_{12}O_5$	5176	>	$C_{27}H_{24}N_2O_6S_2Na$	5223
$C_6H_{12}O_6$	5177	>	$C_{28}H_{22}N_2O_4$	5207
		>	$C_{49}H_{94}O_6$	5224

Component A	Component B	Table No.	Component A
C ₃ H ₈ O	C ₃₅ H ₁₀₆ O ₆	5225	C ₃ H ₈ O
>	C ₃₇ H ₁₁₀ O ₆	5226	>
>	Affilline	5227	>
C ₃ H ₆ N ₂ O ₃	C ₄ H ₁₀ O	5228	C ₃ H ₈ O ₂
>	Various Solvents	5229	>
C ₃ H ₆ N ₈ O ₆	C ₄ H ₈ O ₂	5230	>
>	C ₅ H ₁₂ O	5231	C ₃ H ₈ O ₃
>	C ₆ H ₈	5232	>
>	C ₇ H ₈	5233	>
C ₃ H ₇ NO	C ₃ H ₈	5234	>
C ₃ H ₇ NO ₂	C ₃ H ₈ O	5235	>
>	C ₈ H ₈ N	5236, 5237	>
>	C ₆ H ₆ O ₂	5238	>
>	C ₇ H ₈	5239	>
>	C ₈ H ₉ NO	5240	>
>	C ₉ H ₇ N	5241	>
>	C ₁₃ H ₁₀ O ₂	5242	>
C ₃ H ₈	C ₃ H ₈ O	5243	>
>	C _p H _q O _q	5244, 5245	>
C ₈ H ₈ O	C ₄ H ₆ O ₄	5246	>
>	C ₄ H ₁₀	5247, 5248	>
>	C ₆ H ₃ N ₃ O ₇	5249	>
>	C ₆ H ₄ Br ₂	5250	>
>	C ₆ H ₆	5251	>
>	C ₆ H ₈ O ₇	5252	>
>	C ₆ H ₁₀ O ₆	5253, 5254	>
>	C ₈ H ₁₂ O ₅	5255, 5256	>
>	C ₆ H ₁₂ O ₆	5257, 5258	>
>	C ₆ H ₁₄ O ₆	5259, 5260	>
>	C ₇ H ₆ O ₂	5261	>
>	C ₇ H ₁₄ O ₆	5262, 5263	>
>	C ₈ H ₈ O ₃	5264, 5265	C ₃ H ₈ N ₂ O
>	C ₈ H ₁₄ O ₄	5266	C ₃ H ₉ N
>	C ₉ H ₁₁ NO	5267—5270	C ₄ H ₂ O ₃
>	C ₉ H ₁₈ O	5271	>
>	C ₁₀ H ₈	5272—5274	C ₄ H ₂ N ₁₄
>	C ₁₂ H ₁₀	5275	C ₄ H ₃ NO ₃ S
>	C ₁₃ H ₂₆ O	5276	>
>	C ₁₈ H ₂₇ NS	5277	>
>	C ₁₈ H ₃₂ O ₂	5278	>
>	C ₁₈ H ₃₄ O ₂	5279	C ₄ H ₄ S
			>

Component B	Table No.	Component A	Component B	Table No.
$C_{10}H_{18}O$	5280	C_4H_4S	C_6H_6	5331
$C_{24}H_{39}NS$	5281	>	C_6H_{12}	5332
Various Solvents	5282, 5823	>	C_7H_8	5333
C_6H_6	5284, 5285	>	C_8H_{10}	5334, 5335
C_6H_{12}	5286	>	$C_{10}H_{16}$	5336
C_7H_{16}	5287	$C_4H_4O_4$	C_4H_5N	5337, 5338
$C_4H_7O_2Cl_3$	5288	>	$C_nH_{2n+2}O$	5339
C_4H_8O	5289	>	Various Solvents	5340, 5341
$C_5H_{12}O$	5290	$C_4H_4NO_2Cl$	>	5342
$C_6H_8O_2$	5291	$C_4H_5O_2Cl$	>	5343
C_7H_6O	5292	$C_4H_5O_4Cl$	$C_4H_{10}O$	5344
$C_7H_8O_2$	5293	$C_4H_5O_4Br$	$C_nH_{2n+2}O$	5345
$C_7H_8O_3$	5294	C_4H_5N	$C_5H_6O_4$	5346, 5347
$C_7H_6O_5$	5295	>	$C_{18}H_{31}O_2$	5348
C_7H_8O	5296	>	$C_{10}H_{16}$	5349
$C_7H_8O_2$	5297	$C_4H_6O_2$	Various Solvents	5360
C_7H_9N	5298—5301	$C_4H_6O_3$	C_6H_{12}	5351
C_8H_8O	5302	>	$C_{10}H_{12}N_2S$	5352
$C_8H_{11}N$	5303	>	HeφTb	5353
$C_8H_{12}N_2O_3$	5304	$C_5H_6O_4$	$C_4H_{10}O$	5354, 5355
$C_9H_9O_4$	5305	>	C_5H_5N	5356
$C_9H_{13}N$	5306	>	C_6H_6	5357
$C_{10}H_{16}O_4$	5307	>	$C_{10}H_{10}$	5358
$C_{11}H_{12}N_2O$	5308	>	$C_{10}H_{14}$	5359
$C_{13}H_{17}N_3O$	5309	>	Various Solvents	5360
$C_{14}H_{10}O_9$	5310	$C_4H_6O_5$	>	5361
$C_{17}H_{22}NO_4Cl$	5311	$C_4H_6O_6$	$C_4H_{10}O$	5362
$C_{20}H_{24}N_2O_2$	5312—5316	>	$C_nH_{2n+2}O$	5363
$C_{21}H_{22}N_2O_2$	5317	>	Various Solvents	5364
$C_{23}H_{26}N_2O_4$	5318	>	C_8H_{10}	5365
$C_{38}H_{46}N_4O_6S$	5319	C_4H_8	$C_nH_pO_q$	5366—5369
C_9H_7N	5320	>	>	5370—5373
Various Solvents	5321, 5322	$C_4H_8Cl_2S$	$C_{18}H_{32}O_2$	5374
C_8H_{10}	5323	C_4H_8O	$C_{18}H_{34}O_2$	5375
$C_{12}H_{11}NO$	5324	>	$C_5H_8N_4O_{12}$	5376
Various Solvents	5325	$C_4H_8O_2$	$C_5H_9NO_3$	5377
$C_5H_4O_2S$	5326	>	$C_5H_{11}O_2$	5378
$C_6H_5NO_2$	5327	>	$C_6H_4N_2O_4$	5379
$C_7H_6O_2$	5328	>	$C_6H_6N_2O_2$	5380—5382
$C_4H_8O_2$	5329	>	C_6H_{12}	5383
C_5H_5N	5330	>		

Component A	Component B	Table No.	Component A
$C_4H_8O_2$	$C_6H_{13}NO_2$	5384	$C_4H_{10}O$
>	$C_7H_6O_2$	5385	>
>	$C_7H_7NO_2$	5386—5388	>
>	$C_9H_{14}NO_2$	5389	>
>	$C_9H_{18}O$	5390	>
>	$C_{11}H_{12}N_2O_2$	5391	>
>	$C_{12}H_{10}$	5392	>
>	$C_{12}H_{28}NCl$	5393	>
>	$C_{13}H_{26}O$	5394, 5395	>
>	$C_{14}H_8O_4$	5396	>
>	$C_{14}H_9Cl_5$	5397	>
>	$C_{17}H_{24}NO_4$	5398	>
>	$C_{18}H_{27}NS$	5399	>
>	$C_{18}H_{32}O_2$	5400	>
>	$C_{18}H_{34}O_2$	5401—5402	>
>	$C_{19}H_{38}O$	5403, 5404	>
>	$C_{20}H_{24}N_2O_2$	5405—5407	>
>	$C_{21}H_{22}N_2O_2$	5408	>
>	$C_{23}H_{26}N_2O_4$	5409	>
>	$C_{24}H_{39}NS$	5410	>
>	$C_{27}H_{110}O_6$	5411	>
$C_4H_8N_2O_3$	C_5H_5N	5412	>
>	C_9H_7N	5413	>
C_4H_{10}	C_nH_p	5414	>
$C_4H_{10}O$	$C_5H_8O_4$	5415	>
>	$C_5H_8N_4O_{12}$	5416	>
>	$C_6H_3N_3O_7$	5417, 5418	>
>	$C_6H_3N_3O_8$	5419	>
>	$C_6H_4Br_2$	5420, 5421	>
>	$C_6H_5NO_3$	5422—5424	>
>	C_6H_6	5425	>
>	$C_6H_6O_2$	5426, 5427	>
>	$C_6H_6N_2O_2$	5428—5430	>
>	$C_6H_6O_3$	5431	>
>	$C_6H_{10}O_6$	5432—5435	>
>	$C_6H_{12}O_5$	5436—5439	>
>	$C_6H_{12}O_6$	5440—5443	>
>	$C_6H_{14}O_6$	5444—5447	>
>	$C_7H_5NO_4$	5448—5450	>
>	$C_7H_5N_3O_6$	5451	>
>	$C_7H_5N_5O_8$	5452	>
>	$C_7H_6O_2$	5453, 5454	>

Component B	Table No.	Component A	Component B	Table No.
C ₇ H ₆ O ₃	5455—5459	C ₄ H ₁₀ O	C ₃₇ H ₁₁₀ O ₆	5527
C ₇ H ₆ N ₂ O ₄	5460	>	Various Solvents	5528—5533
C ₇ H ₇ NO ₂	5461—5463	C ₄ H ₁₀ O ₂	C ₆ H ₆	5534
C ₇ H ₁₀ NCl	5464	>	C ₆ H ₁₂	5535
C ₇ H ₁₄ O ₆	5465—5468	>	C ₇ H ₁₆	5536
C ₈ H ₁₂ N ₂ O ₃	5469	C ₄ H ₁₀ O ₃	C ₆ H ₁₆	5537, 5538
C ₉ H ₁₁ NO	5470—5476	>	C ₇ H ₁₆	5539
C ₁₀ H ₈	5477—5481	C ₄ H ₁₀ O ₄	C ₅ H ₅ N	5540
C ₁₀ H ₁₃ NO ₂	5482	C ₄ H ₁₁ N	C ₁₇ H ₂₁ NO ₄	5541
C ₁₀ H ₁₅ N ₂ Cl	5483	>	C ₁₉ H ₂₂ N ₂ O	5542
C ₁₀ H ₁₅ N ₂ I	5484	>	C ₂₀ H ₂₁ NO ₄	5543
C ₁₀ H ₁₆ N ₂ O ₄ S ₂	5485	>	C ₂₀ H ₂₃ NO ₇	5544
C ₁₁ H ₁₂ NO ₂ Cl	5486	>	C ₂₀ H ₂₄ N ₂ O ₂	5545
C ₁₁ H ₁₂ N ₂ O	5487	>	C ₂₁ H ₂₂ N ₂ O ₂	5546
C ₁₂ H ₉ N	5488	>	C ₂₃ H ₂₆ N ₂ O ₄	5547
C ₁₂ H ₂₈ NCl	5489	>	Various Solvents	5548
C ₁₄ H ₈ O ₂	5490, 5491	C ₅ H ₃ O ₂ SBr	C ₆ H ₆ O ₂ S	5549
C ₁₄ H ₉ Cl ₅	5492	>	C ₇ H ₅ O ₂ Br	5550
C ₁₄ H ₁₀	5493—5495	>	C ₈ H ₈ O ₂	5551
C ₁₄ H ₁₅ N ₃	5496	C ₅ H ₄ O ₂	C ₅ H ₁₀	5552
C ₁₅ H ₂₃ N ₂ OCl	5497	>	C ₆ H ₁₂	5553, 5554
C ₁₅ H ₂₃ N ₂ OI	5498	>	C ₆ H ₁₄	5555—5558
C ₁₇ H ₁₉ NO ₃	5499	>	C ₇ H ₁₄	5560
C ₁₇ H ₁₉ N ₃ O ₉ S	5500	>	C ₇ H ₁₆	5569, 5561
C ₁₇ H ₂₁ O ₄	5501	>	C ₈ H ₁₈	5562
C ₁₈ H ₂₁ NO ₃	5502	>	C ₉ H ₂₀	5563
C ₁₈ H ₂₄ NO ₇ P	5503	>	C ₁₈ H ₃₄ O ₂	5564
C ₁₈ H ₃₂ O ₂	5504	>	C ₅ H ₄ O ₃	5565
C ₁₈ H ₃₄ O ₂	5505, 5506	C ₅ H ₄ O ₂ S	C ₅ H ₅ NO ₂	5566
C ₁₉ H ₂₂ N ₂ O	5507—5509	>	C ₇ H ₆ O ₂	5567, 5568
C ₁₉ H ₂₃ NO ₃	5510	>	C ₅ H ₅ NO ₂	5569
C ₂₀ H ₂₁ NO ₄	5511	C ₅ H ₄ O ₃	C ₇ H ₆ O ₂	5570
C ₂₀ H ₂₄ N ₂ O ₂	5512—5514	>	C ₈ H ₅ NO ₂	5571—5573
C ₂₁ H ₂₂ N ₂ O ₂	5515—5517	C ₅ H ₄ N ₂ O ₂	C ₇ H ₆ O ₂	5574
C ₂₃ H ₂₆ N ₂ O ₄	5518	>	C ₇ H ₆ O ₂	5574
C ₃₀ H ₄₆ O ₃	5519	C ₅ H ₄ N ₄ O ₃	C ₅ H ₅ N	5575
C ₃₂ H ₆₆	5520	>	C ₇ H ₉ N	5576
C ₃₃ H ₆₂ O ₆	5521	C ₅ H ₅ N	C ₆ H ₃ Br ₃	5577
C ₃₈ H ₄₆ N ₄ O ₆ S	5522, 5523	>	C ₆ H ₄ N ₂ O ₄	5578
C ₃₆ H ₇₄ O ₆	5524	>	C ₆ H ₆	5579
C ₄₅ H ₈₆ O ₆	5525	>	C ₆ H ₆ O ₃	5580
C ₅₁ H ₉₆ O ₆	5526	>	C ₆ H ₁₂ O ₆	5581, 5582

Component A	Component B	Table No.	Component A
C ₅ H ₅ N	C ₆ H ₁₄ O ₆	5583	C ₅ H ₅ N
>	C ₇ H ₅ N ₃ O ₆	5584	>
>	C ₇ H ₇ NO	5585	>
>	C ₇ H ₇ NO ₂	5586	>
>	C ₇ H ₇ NO ₄	5587	>
>	C ₇ H ₉ N	5588	>
>	C ₈ H ₄ O ₃	5589	>
>	C ₈ H ₅ NO ₂	5590	C ₅ H ₅ NO ₂
>	C ₈ H ₈ O ₂	5591	C ₅ H ₈ O ₂
>	C ₈ H ₈ O ₂	5592	C ₅ H ₈ O ₂
>	C ₁₀ H ₁₃ NO ₂	5593	C ₅ H ₈ O ₄
>	C ₁₁ H ₁₂ N ₂ O	5594	>
>	C ₁₂ H ₉ N	5595	C ₅ H ₈ N ₄ O ₁₂
>	C ₁₂ H ₁₀ O	5596—5598	>
>	C ₁₂ H ₁₀ N ₂	5599	C ₅ H ₉ NO ₃
>	C ₁₂ H ₁₀ N ₃ O ₃ SNa	5600	C ₅ H ₁₀
>	C ₁₂ H ₁₁ N ₃	5601	C ₅ H ₁₀ O
>	C ₁₂ H ₂₀ O ₁₀	5602	C ₅ H ₁₁ N
>	C ₁₃ H ₁₀	5603	>
>	C ₁₃ H ₁₀ O ₃	5604	>
>	C ₁₃ H ₁₂ N ₂ O	5605	>
>	C ₁₄ H ₈ O ₄	5606	>
>	C ₁₄ H ₉ Cl ₅	5607	>
>	C ₁₄ H ₁₀	5608, 5609	>
>	C ₁₄ H ₁₂ O ₂	5610	C ₅ H ₁₂ NCl
>	C ₁₄ H ₁₃ N ₃	5611	C ₅ H ₁₂
>	C ₁₄ H ₁₅ N ₃ O ₃ S	5612	>
>	C ₁₅ H ₁₈ O ₃	5613	C ₅ H ₁₂ O
>	C ₁₆ H ₁₁ N ₃ O ₃ SNa	5614	>
>	C ₁₆ H ₁₈ N ₃ ClS	5615	>
>	C ₁₇ H ₁₉ NO ₃	5616	>
>	C ₁₇ H ₂₀ N ₂ O	5617	C ₅ H ₁₂ O ₂
>	C ₁₇ H ₂₁ NO ₄	5618	>
>	C ₁₈ H ₁₉ N ₈ Cl	5619	>
>	C ₁₉ H ₁₆	5620	C ₆ Cl ₆
>	C ₁₉ H ₂₂ N ₂ O	5621, 5622	>
>	C ₂₀ H ₆ O ₅ I ₄ Na ₂	5623	C ₆ N ₃ O ₆ Cl ₃
>	C ₂₀ H ₁₂ O ₅	5624	>
>	C ₂₀ H ₁₄ O ₄	5625	C ₆ HCl ₅
>	C ₂₀ H ₁₆ O ₃	5626	C ₆ H ₂ N ₃ O ₆ Cl ₃
>	C ₂₀ H ₂₁ N ₃ O	5627	C ₆ H ₃ N ₂ O ₄ Cl
>	C ₂₀ H ₂₁ NO ₄	5628	C ₆ H ₂ N ₃ O ₆ Cl

Component B	Table No.	Component A	Component B	Table No.
$C_{20}H_{23}NO_7$	5629	$C_6H_3N_3O_6$	$C_7H_6N_2O_4$	5678
$C_{20}H_{24}N_2O_2$	5630	>	Various Solvents	5679, 5680
$C_{21}H_{22}N_2O_2$	5631, 5632	$C_6H_3N_3O_7$	C_6H_6	5681
$C_{23}H_{26}N_2O_4$	5633, 5634	>	C_7H_8	5682
$C_{27}H_{46}O$	5635	>	Various Solvents	5683—5685
$C_{30}H_{34}O_{13}$	5636	$C_6H_3N_3O_8$	$C_6H_{10}O_4$	5686
$C_nH_pO_q$	5637—5643	$C_6H_3N_3O_9$	C_6H_6	5687
$C_7H_6O_2$	5644	$C_6H_3N_3O_9$	Various Solvents	5688
$C_{10}H_8$	5645	$C_6H_3N_5O_8$		
D_2O	5646	$C_6H_4Cl_2$	C_6H_4ClBr	5689
C_6H_6	5647	>	$C_6H_4Br_2$	5690
$C_nH_{2n+2}O$	5648	>	$C_{12}H_{10}$	5691
C_6H_6	5649, 5630	C_6H_4ClBr	$C_6H_4Br_2$	5692
C_7H_8	5651	$C_6H_4Br_2$	C_6H_5Br	5693
$C_7H_{10}O$	5652	>	$C_6H_5NO_2$	5694
C_6H_7N	5653	>	C_6H_6	5695, 5696
Acetyl-cellulose	5654	>	C_6H_7N	5697
$C_{17}H_{21}NO_4$	5655	>	C_7H_8	5698
$C_{19}H_{22}N_2O$	5656	>	$C_{10}H_{12}N_2S$	5699
$C_{20}H_{21}NO_4$	5657	>	Various Solvents	5700
$C_{20}H_{23}NO_7$	5658	$C_6H_4O_2$	D_2O	5701
$C_{20}H_{24}N_2O_2$	5659	$C_6H_4NO_2Cl$	C_6H_7N	5702—5704
$C_{21}H_{22}N_2O_2$	5660	>	Various Solvents	5705
$C_{23}H_{26}N_2O_4$	5661	$C_6H_4N_2O_4$	C_6H_5Br	5706
Various Solvents	5662	>	C_6H_6	5707
C_6H_6O	5663	>	$C_nN_{2n}O_2$	5708
Paraffin	5664	>	$C_nH_{2n+2}O$	5709
$C_6H_3N_3O_7$	5665	>	Various Solvents	5710, 5711
$C_{19}H_{22}N_2O$	5666	$C_6H_4N_2O_5$	C_6H_6	5712—5717
$C_{21}H_{22}N_2O$	5667	>	Various Solvents	5718, 5719
C_6H_6	5668	$C_6H_4N_4O_6$	$C_6H_{10}O_4$	5720
C_6H_{12}	5669	C_6H_5Cl	C_7F_{14}	5721
C_7H_{16}	5670	>	$C_7H_6O_2$	5722
C_6H_6	5671	>	$C_8H_8O_2$	5723—5725
$C_{10}H_{14}$	5672	>	$C_{10}H_8$	5726
$C_{10}H_8$	5673	>	$C_{13}H_{10}$	5727
$C_{12}H_{18}$	5674	>	$C_{18}H_{34}O_2$	5728
C_6H_6	5675	>	$C_6H_5NO_3$	5729, 5730
$C_{10}H_8$	5676	C_6H_5Br	C_6H_6	5731—5735
Various Solvents	5677	C_6H_5OCl	C_6H_7N	5734—5736
"	5677a	>		

Component A	Component B	Table No.	Component A
C ₆ H ₅ NO ₂	D ₂ O	5737	C ₆ H ₆
>	C ₆ H ₅ NO ₂	5738—5740	>
>	C ₆ H ₆ O ₂	5741	>
>	C ₆ H ₈ N ₂ O ₂	5742, 5743	>
>	C ₆ H ₁₄	5744	>
>	C ₇ H ₆ O ₂	5745—5748	>
>	C ₁₀ H ₈	5749	>
>	C ₁₀ H ₁₂ N ₂ S	5750	>
>	C ₁₃ H ₁₀	5751	>
>	C ₁₈ H ₃₂ O ₂	5752	>
>	C ₁₈ H ₃₄ O ₂	5753	>
>	Acetyl-cellulose	5754	>
C ₆ H ₅ NO ₃	C ₆ H ₆	5755—5758	>
>	C ₇ H ₈	5759—5761	>
>	Various solvents	5762, 5763	>
C ₆ H ₆	C ₆ H ₆ O	5764, 5765	>
>	C ₆ H ₈ O ₂	5766—5769	>
>	C ₆ H ₆ NCl	5770—5772	>
>	C ₆ H ₈ N ₂ O ₂	5773—5778	>
>	C ₆ H ₇ NO	5779—5781	>
>	C ₆ H ₈ N ₂	5782—5785	>
>	C ₆ H ₁₀ O ₄	5786	>
>	C ₆ H ₁₄ O ₂	5787	>
>	C ₇ F ₁₄	5788	>
>	C ₇ F ₁₆	5789	>
>	C ₇ H ₅ Cl ₅	5790	>
>	C ₇ H ₄ N ₂ O ₆	5791	>
>	C ₇ H ₅ O ₂ Cl	5792—5794	>
>	C ₇ H ₅ NO ₃	5795—5797	>
>	C ₇ H ₅ NO ₄	5798—5804	>
>	C ₇ H ₅ N ₃ O ₆	5805	>
>	C ₇ H ₆ O ₂	5806—5812	>
>	C ₇ H ₆ O ₃	5813—5820	>
>	C ₇ H ₇ NO ₂	5821—5823	>
>	C ₇ H ₁₂ O ₄	5825, 5826	>
>	C ₇ H ₁₆ S ₂ O ₄	5827	>
>	C ₈ H ₅ Cl ₅	5828	>
>	C ₈ H ₅ NO ₃	5829	>
>	C ₈ H ₆ Cl ₄	5830	>
>	C ₈ H ₆ O ₃	5831—5833	>
>	C ₈ H ₇ Cl ₃	5834	>

Component B	Table No.	Component A	Component B	Table No.
C_8H_7ClO	5835	C_6H_6	$C_{13}H_9NOBr$	5900
$C_8H_7NO_4$	5836, 5837	>	$C_{13}H_9NO_2Cl$	5901
$C_8H_8Cl_2$	5838	>	$C_{13}H_9NO_2Br$	5902
C_8H_8O	5839	>	$C_{13}H_{10}$	5903
$C_8H_8O_2$	5840—5843	>	$C_{13}H_{10}O$	5904
$C_8H_8O_3$	5844—5849	>	$C_{13}H_{10}O_3$	5905
C_8H_8NOCl	5850—5852	>	$C_{13}H_{10}NCl$	5906
$C_8H_8N_2O_3$	5853—5855	>	$C_{13}H_{10}NBr$	5907
C_8H_{10}	5856—5859	>	$C_{13}H_{10}NOBr$	5908
$C_8H_{10}N_2O$	5860—5862	>	$C_{13}H_{20}O$	5909
$C_8H_{14}O_4$	5863	>	$C_{13}H_{30}NCl$	5910
C_9H_7N	5864	>	$C_{14}H_9O_2$	5911
$C_9H_7O_2$ Газ.	5865	>	$C_{14}H_9O_4$	5912
$C_9H_7O_2R$	5866	>	$C_{14}H_9Cl_5$	5913
C_9H_8	5867	>	$C_{14}H_{10}$	5914—5917
$C_9H_8O_4$	5868	>	$C_{14}H_{10}N_2O_2$	5918
$C_9H_9Cl_3$	5869, 5870	>	$C_{14}H_{12}N_2O$	5919, 5920
$C_9H_{10}O_2$	5871	>	$C_{14}H_{25}O_4$	5921
$C_9H_{11}NO$	5872, 5873	>	$C_{14}H_{32}NCl$	5922
$C_9H_{14}O_6$	5874	>	$C_{15}H_{12}N_2O_2$	5923
$C_9H_{16}O_4$	5875, 5876	>	$C_{15}H_{23}N_2OCl$	5924
$C_{10}H_8$	5877—5879	>	$C_{15}H_{23}N_2OI$	5925
$C_{10}H_8O$	5880	>	$C_{16}H_9N_3O_7$	5926
$C_{10}H_{12}Cl_2$	5881	>	$C_{16}H_{10}$	5927
$C_{10}H_{14}O_3$	5882	>	$C_{16}H_{11}N_3O_8$	5928
$C_{10}H_{15}N_2Cl$	5883	>	$C_{16}H_{12}N_2O_3$	5929
$C_{10}H_{15}N_2I$	5884	>	$C_{16}H_{18}N_4O_3$	5930
$C_{10}H_{18}O_4$	5885	>	$C_{17}H_{16}N_2O_3$	5931
$C_{10}H_{20}NOCl$	5824	>	$C_{17}H_{20}O_2$	5932
$C_{11}H_{12}N_2O$	5886	>	$C_{17}H_{21}NO_4$	5933
$C_{11}H_{15}Cl$	5887	>	$C_{18}H_{18}N_4O$	5934
$C_{11}H_{20}O_4$	5888, 5889	>	$C_{18}H_{21}NO_3$	5935
$C_{12}H_9N$	5890	>	$C_{18}H_{27}NS$	5936
$C_{12}H_{10}$	5891	>	$C_{18}H_{32}O_2$	5937
$C_{12}H_{10}N_2O$	5892	>	$C_{18}H_{34}O_2$	5938
$C_{12}H_{18}$	5893	>	$C_{19}H_{15}Cl$	5939
$C_{12}H_{22}O_4$	5894	>	$C_{19}H_{15}Br$	5940
$C_{12}H_{24}O_2$	5895	>	$C_{19}H_{16}$	5941, 5942
$C_{12}H_{28}NCl$	5896	>	$C_{19}H_{16}O$	5943
$C_{13}H_6NO_3Cl$	5897	>	$C_{19}H_{22}N_2O$	5944, 5945
$C_{13}H_8NO_3Br$	5898	>	$C_{19}H_{38}O$	5946
$C_{13}H_9NOCl$	5899	>	$C_{20}H_{23}NO_7$	5947

Component A	Component B	Table No.	Component A
C ₆ H ₆	C ₂₀ H ₂₄ N ₂ O ₂	5948—5951	C ₆ H ₇ N
>	C ₂₁ H ₂₂ N ₂ O ₂	5952, 5953	>
>	C ₂₁ H ₂₃ NO ₅	5954	>
>	C ₂₂ H ₁₆ N ₂ O ₂	5955	>
>	C ₂₃ H ₂₆ N ₂ O ₄	5956, 5957	>
>	C ₂₄ H ₂₁ N ₅	5958	>
>	C ₂₄ H ₃₉ NS	5959	>
>	C ₂₇ H ₂₄ N ₂ O ₆ S ₂ Na	5960	>
>	C ₂₈ H ₂₂ N ₂ O ₄	5961	>
>	C ₃₂ H ₆₆	5962	>
>	C ₃₃ H ₆₂ O ₆	5963	>
>	C ₃₉ H ₇₄ O ₆	5964	>
>	C ₄₅ H ₈₆ O ₆	5965	>
>	C ₅₁ H ₉₈ O ₆	5966	>
>	C ₅₇ H ₁₁₀ O ₆	5967, 5968	>
>	Afilline	5969	C ₆ H ₈ O ₄
>	C _n H _{2n} O ₂	5970	C ₆ H ₈ O ₇
>	R ₂ PO ₂ Me	5971	>
C ₆ H ₆ Cl ₆	C ₁₀ H ₈	5972	C ₆ H ₁₀ O ₄
C ₆ H ₆ O	D ₂ O	5973	>
>	C ₆ H ₇ N	5974	>
>	C ₇ H ₆ O ₂	5975	>
>	C ₈ H ₉ NO	5976	C ₆ H ₁₁ NO
>	C ₈ H ₁₈	5977	C ₆ H ₁₂
>	C ₁₀ H ₁₆ O	5978	>
>	Paraffin	5979	>
C ₆ H ₆ O ₂	D ₂ O	5980	>
>	C ₆ H ₆ O ₂	5981	>
>	C ₁₀ H ₇ Br	5982	>
>	C _n H _{2n} O ₂	5983	C ₆ H ₁₂ S ₃
>	C _n H _{2n+2} O	5984	C ₆ H ₁₂ O
C ₆ H ₆ O ₂ S	C ₆ H ₈ O ₂	5985, 5986	C ₆ H ₁₂ O ₂
C ₆ H ₆ N ₂ O ₂	C ₈ H ₁₀	5987	C ₆ H ₁₂ O ₃
>	C ₁₀ H ₁₄	5988	C ₆ H ₁₂ O ₆
>	Various Solvents	5989—5993	C ₆ H ₁₂ N ₄
C ₆ H ₆ O ₃	C ₁₀ H ₈	5994	C ₆ H ₁₃ NO ₂
>	C ₁₀ H ₁₄	5995	C ₆ H ₁₄
C ₆ H ₆ N ₂ O ₆	C ₁₀ H ₁₂ N ₂ S	5996	>
C ₆ H ₇ N	C ₆ H ₁₂	5998, 5999	>
>	C ₆ H ₁₄	6000	>
>	C ₇ H ₅ N ₃ O ₆	6001	>

Component B	Table No.	Component A	Component B	Table No.
C ₁₀ H ₈ N ₂ O ₄	6002, 6003	C ₆ H ₁₄	C ₁₃ H ₂₈ O	6046
C ₁₀ H ₈	6004	>	C ₁₄ H ₁₀	6047
C ₁₀ H ₂₂	6005	>	C ₁₈ H ₂₇ NS	6048
C ₁₃ H ₁₀	6006	>	C ₁₈ H ₃₂ O ₂	6049
C ₁₇ H ₂₁ NO ₄	6007	>	C ₁₈ H ₃₄ O ₂	6050
C ₁₈ H ₃₈	6008	>	C ₁₉ H ₁₆	6051
C ₁₉ H ₁₆	6009	>	C ₁₉ H ₃₈ O	6052
C ₁₉ H ₂₂ N ₂ O	6010	>	C ₂₄ H ₃₉ NS	6053
C ₂₀ H ₂₁ NO ₄	6011	>	C ₅₇ H ₁₁₀ O ₆	6054
C ₂₀ H ₂₃ NO ₇	6012	>	Paraffin	6055
C ₂₀ H ₂₄ N ₂ O ₂	6013	C ₆ H ₁₄ O ₂	C ₇ H ₁₆	6056
C ₂₁ H ₂₂ N ₂ O ₂	6014	C ₆ H ₁₄ O ₆	D ₂ O	6057
C ₂₃ H ₂₆ N ₂ O ₄	6015	C ₇ F ₁₄	C ₇ H ₈	6058
Various Solvents	6016	>	C ₈ H ₂₄ O ₄ Si ₄	6059
Ligroin	6017, 6018	>	Various Solvents	6060
C ₁₀ H ₁₄	6019	C ₇ F ₁₆	C ₇ H ₁₆	6061
Various Solvents	6020	>	C ₈ H ₁₈	6062, 6063
C ₆ H ₁₆ N ₂ O ₃	6021	>	C ₈ H ₂₄ O ₄ Si ₄	6064
C ₇ H ₅ N ₅ O ₈	6022	C ₇ HF ₁₅	C ₁₄ H ₁₀	6065
C ₈ H ₇ N ₃ O ₆	6023	C ₇ H ₃ N ₃ O ₈	Various Solvents	6066
C ₁₀ H ₅ N ₃ O ₆	6024	C ₇ H ₅ O ₂ Cl	C ₇ H ₅ O ₂ Cl	6067—6069
C ₆ H ₁₂	6025	>	C ₇ H ₁₆	6070—6072
C ₆ H ₁₄ O ₂	6026	>	Various Solvents	6073—6077
C ₁₃ H ₂₆ O	6027	C ₇ H ₅ NS	C ₁₂ H ₁₁ N	6078
C ₁₄ H ₁₀	6028	C ₇ H ₅ NO ₃	C ₉ H ₇ N	6079
C ₁₈ H ₃₂ O ₂	6029	C ₇ H ₅ NO ₄	C ₈ H ₆ O	6080
C ₁₈ H ₃₄ O ₂	6030	>	C _n H _{2n+2} O	6081—6083
C ₁₉ H ₃₈ O	6031	>	Various Solvents	6084
Various Solvents	6032, 6033	C ₇ H ₅ N ₃ O ₆	C ₇ H ₆ N ₂ O ₄	6085
C ₁₀ H ₈	6034	>	C ₇ H ₈	6086
C ₁₈ H ₃₄ O ₂	6035	C ₇ H ₅ N ₃ O ₇	Various Solvents	6087
C ₁₀ H ₁₂ N ₂ S	6036	C ₇ H ₆ O ₂	C ₇ H ₇ Cl	6088, 6089
Various Solvents	6037	>	C ₇ H ₈	6090—6092
>	6038	>	C ₈ H ₆ O	6093
>	6039	>	C ₁₀ H ₁₄	6094
C ₇ H ₉ N	6040, 6041	>	C _n H _{2n+2} O	6095
C ₉ H ₁₈ O	6042	>	Various Solvents	6096—6100
C ₁₀ H ₈	6043	C ₇ H ₆ O ₃	C ₇ H ₁₆	6101—6103
C ₁₂ F ₂₇ N	6044	>	C ₁₀ H ₁₄	6104
C ₁₂ H ₁₁ N	6045			

Component A	Component B	Table No.	Component A
C ₇ H ₆ O ₃	C ₁₃ H ₁₇ N ₃ O	6105	C ₇ H ₁₄ N ₂ O ₃
>	C _n H _{2n+2} O	6106	C ₇ H ₁₄ N ₂ O ₈
>	Various Solvents	6107—6111	C ₇ H ₁₆
C ₇ H ₈ O ₅	"	6112	>
C ₆ H ₇ N	C ₆ H ₈ NCl	6113	>
C ₇ H ₈ NO ₂ Cl	Various Solvents	6114—6117	>
C ₇ H ₈ N ₂ O ₄	"	6118	>
C ₇ H ₈ N ₂ O ₅	>	6119	>
C ₇ H ₇ Cl	C ₇ H ₈	6120	>
>	C ₈ H ₈ O ₂	6121—6126	C ₇ H ₁₆ O ₄ S ₂
C ₇ H ₇ NO	C ₉ H ₇ N	6127	C ₈ F ₁₆
C ₇ H ₇ NO ₂	C ₈ F ₁₈ O	6128	C ₈ F ₁₈ O
>	C ₉ F ₂₁ N	6129	C ₈ H ₂ F ₁₆
>	C ₁₀ H ₁₄	6130	C ₈ H ₆ O
>	Various Solvents	6131—6132	>
C ₇ H ₈	C ₈ H ₇ NO ₄	6133	>
>	C ₈ H ₉ NO	6134	C ₈ H ₆ O ₄
>	C ₈ H ₁₀	6135—6138	>
>	C ₉ H ₁₈ O	6139	>
>	C ₁₀ H ₈	6140—6143	C ₈ H ₇ OCl
>	C ₁₀ H ₁₆ O	6144	C ₈ H ₇ N
>	C ₁₂ H ₉ N	6145, 6146	C ₈ H ₇ N ₃ O ₆
>	C ₁₂ H ₁₀	6147	C ₈ H ₇ N ₃ O ₇
>	C ₁₃ H ₁₀	6148	C ₈ H ₈ O ₂
>	C ₁₃ H ₂₆ O	6149	>
>	C ₁₄ H ₈ O ₂	6150	>
>	C ₁₄ H ₁₀	6151—6153	>
>	C ₁₆ H ₁₀	6154	C ₈ H ₈ O ₃
>	C ₁₈ H ₁₂	6155	C ₈ H ₈ N ₂ O ₂
>	C ₁₉ H ₃₈ O	6156	C ₈ H ₈ N ₂ O ₅
C ₇ H ₈ O	Various Solvents	6157	C ₈ H ₉ NO
C ₇ H ₈ O ₂	"	6158	C ₈ H ₉ NO ₃
C ₇ H ₈ O ₃	C ₁₀ H ₈	6159, 6160	C ₈ H ₁₀
C ₇ H ₈ N ₄ O ₂	Various Solvents	6161	>
C ₇ H ₉ N	C ₇ H ₁₄	6162	>
>	Various Solvents	6163—6166	>
C ₇ H ₁₂ N ₄ O ₅	"	6167	C ₈ H ₁₀ O ₃
C ₇ H ₁₄	C ₁₂ F ₂₇ N	6168	C ₈ H ₁₀ N ₂ O
C ₇ H ₁₄ O	C ₇ H ₁₆ O	6169	C ₈ H ₁₀ N ₄ O ₂
>	Various Solvents	6170	>

Component B	Table No.	Component A	Component B	Table No.
Various Solvents	6171, 6172	$C_8H_{11}N$	Various Solvents	6228
»	6173	$C_8H_{16}O_3S$	»	6229
$C_8H_8O_2$	6174	C_8H_{18}	$C_{12}F_{27}N$	6230, 6231
$C_8H_8O_3$	6175—6178	»	$C_{32}H_{66}$	6232
$C_8H_{12}N_2S$	6179	»	Paraffin	6233
$C_{12}H_{10}$	6180	$C_9H_{18}S_2O_4$	Petroleum ether	6234
$C_{14}H_{12}N_2O$	6181, 6182	$C_9F_{21}N$	$C_{10}H_8$	6235
$C_{32}H_{66}$	6183	$C_9H_6O_2$	C_9H_7N	6236
paraffin	6184	»	Various Solvents	6237
Various Solvents	6185, 6186	$C_9H_7O_2R$	Petroleum ether	5997
»	6187	C_9H_7N	C_9H_8	6238
$C_{10}H_8$	6188	»	$C_9H_8O_2$	6239
$C_{14}H_{10}$	6189	»	$C_9H_9NO_3$	6240
C_9H_7N	6190	»	$C_{10}H_8$	6241, 6242
C_9H_8	6191	»	$C_{10}H_{13}NO_2$	6243
$C_{10}H_8$	6192	»	$C_{11}H_{12}N_2O$	6244
$C_{10}H_{14}$	6193	»	$C_{12}H_9N$	6245
$C_nH_{2n+2}O$	6194	»	$C_{12}H_{12}N_2$	6246
Various Solvents	6195, 6196	»	$C_{12}H_{13}N$	6247
C_8H_8O	6197	»	$C_{12}H_{22}O_{11}$	6248
C_9H_7N	6198	»	$C_{13}H_{12}N_2O$	6249
Various Solvents	6199	»	$C_{17}H_{19}NO_3$	6250
»	6200	»	$C_{17}H_{20}N_2O$	6251
C_8H_{10}	6201	»	$C_{20}H_{14}O_4$	6252
C_9H_7N	6202	»	$C_{20}H_{24}N_2O_2$	6253
Various Solvents	6203, 6204	»	$C_{21}H_{18}N_2$	6254
»	6205	»	$C_{21}H_{21}NO_4$	6255
»	6206	»	$C_{39}H_{74}O_6$	6256
»	6207	»	$C_{57}H_{110}O_6$	6257
»	6208	»	$C_nH_pO_q$	6258, 6259
$C_{12}H_{11}N$	6209	C_9H_8	$C_{10}H_8$	6260
$C_{10}H_8$	6210—6215	$C_9H_8O_2$	$C_nH_{2n+2}O$	6261
$C_{11}H_{16}O_3$	6216	»	Various Solvents	6262—6266
$C_{13}H_{10}$	6217—6219	»	Petroleum ether	6267
$C_{18}H_{34}O_2$	6220	$C_9H_9NO_3$	$C_nH_{2n+2}O$	6268
$C_{10}H_8$	6221	$C_9H_9N_3O_6$	$C_{10}H_8$	6269
Various Solvents	6222—6225	$C_9H_{10}O_2$	Various Solvents	6270, 6271
$C_{10}H_{14}$	6226	$C_9H_{12}O_3$	$C_{10}H_8$	6272
Various Solvents	6227	$C_{10}H_5N_2O_8SK$	Various Solvents	6273

Component A	Component B	Table No.	Component A
C ₁₀ H ₇ NO ₂	C ₁₂ H ₄ N	6274	C ₁₁ H ₁₁ N ₅ O ₈ S
C ₁₀ H ₈	C ₁₀ H ₁₂	6275	C ₁₁ H ₁₂ N ₂ O
>	C ₁₀ H ₁₄	6276	>
>	C ₁₀ H ₁₈	6277	C ₁₁ H ₁₄ N ₂ O
>	C ₁₂ H ₁₀	6278	C ₁₁ H ₁₆ N ₂ O ₂
>	C ₁₃ H ₁₀	6279	C ₁₂ H ₅ N ₇ O ₁₂
>	C ₁₄ H ₁₀	6280	C ₁₂ H ₇ N ₅ O ₈
>	C ₁₆ H ₁₀	6281	C ₁₂ H ₈ O
>	Various Solvents	6282—6285	C ₁₂ H ₈ OS
C ₁₀ H ₈ O	C ₁₃ H ₁₀ O ₃	6286	C ₁₂ H ₉ N
C ₁₀ H ₉ N	C ₁₀ H ₁₄	6287	>
>	C ₁₂ H ₁₁ N	6288	C ₁₂ H ₉ NS
C ₁₀ H ₉ N ₃ O ₈ S	Various Solvents	6289	C ₁₂ H ₉ N ₃ O ₄
C ₁₀ H ₉ N ₃ O ₉ S	>	6290	C ₁₂ H ₁₀
C ₁₀ H ₁₂	C ₁₀ H ₉ N ₃ O ₇	6291	>
C ₁₀ H ₁₂ N ₂ S	C ₁₂ H ₁₁ N	6292	>
C ₁₀ H ₁₃ NO ₂	Various Solvents	6293, 6294	C ₁₂ H ₁₀ N ₂
C ₁₀ H ₁₄	C ₁₀ H ₁₆ O	6295	C ₁₂ H ₁₁ N
>	C ₁₁ H ₁₂ N ₂ O	6296	C ₁₂ H ₁₁ N ₃ O ₉ S
>	C ₁₃ H ₁₀	6297	C ₁₂ H ₁₂
>	C ₁₄ H ₁₀	6298	>
>	C ₁₆ H ₁₀	6299	C ₁₂ H ₁₂ N ₄ O ₉ S
>	C ₂₁ H ₂₂ N ₂ O ₂	6300	C ₁₂ H ₁₃ O ₈ Cl ₃
C ₁₀ H ₁₄ O	C ₁₃ H ₁₀ O ₂	6301	C ₁₂ H ₁₃ N ₃ O ₈ S
>	Various oils	6302—6308	C ₁₂ H ₁₆ O ₈
C ₁₀ H ₁₅ OB _r	Various Solvents	6309	C ₁₂ H ₂₂ O ₁₁
C ₁₀ H ₁₅ NO	C ₁₀ H ₁₆	6310	C ₁₂ H ₂₄ O ₂
C ₁₀ H ₁₆ O	C ₁₃ H ₁₀ O ₃	6311	>
>	Various Solvents	6312	C ₁₂ H ₂₄ O ₃ N ₃ PS
C ₁₀ H ₁₆ O ₄	>	6313, 6314	C ₁₂ H ₂₄ O ₄ N ₃ P
C ₁₀ H ₁₇ NO	Turpentine	6315	C ₁₃ H ₁₀
C ₁₀ H ₁₈	C ₁₀ H ₁₈	6316	>
>	C ₂₄ H ₅₀	6317	C ₁₃ H ₁₀ O
>	C ₃₂ H ₆₆	6318	C ₁₃ H ₁₀ O ₂
C ₁₀ H ₂₂	Paraffin	6319	C ₁₃ H ₁₀ O ₃
C ₁₁ H ₁₀	C ₁₃ H ₁₀	6320	C ₁₃ H ₁₅ N ₃ O ₈ S
>	C ₁₆ H ₁₀	6321	C ₁₃ H ₁₅ N ₅ O ₈ S
C ₁₁ H ₁₀ N ₄ O ₉ S	Various Solvents	6322	C ₁₃ H ₁₈ O ₇
C ₁₁ H ₁₁ N ₃ O ₉ S	>	6323	C ₁₃ H ₂₀ N ₂ O ₂

Component B	Table No.	Component A	Component B	Table No.
Various Solvents	6324	$C_{13}H_{22}N_2O$	Various Solvents	6378
$C_{13}H_{10}O_3$	6325	$C_{14}H_9Cl_5$	Petroleum ether	6379
Benzine	6326	$C_{14}H_{10}$	$C_{14}H_{10}$	6380
Various Solvents	6327	>	$C_{16}H_{10}$	6381—6383
>	6328—6330	>	C_nH_p	6384—6395
>	6331	>	$C_nH_{2n}O_2$	6396
>	6332	>	Various Solvents	6397—6399
$C_{12}H_{11}N$	6333	$C_4H_4N_2O$	>	6400, 6401
>	6334	$C_4H_4N_2O_9S$	>	6402
$C_{13}H_{10}$	6335	$C_4H_4N_3O_9S$	>	6403
C_nH_p	6336—6340	$C_4H_4N_3O_8S$	>	6404
$C_{12}H_{11}N$	6341	$C_4H_4N_4O_8S$	>	6405
Various Solvents	6342	$C_4H_2O_4N_2P$	$C_nH_{2n+2}O$	6406
$C_{13}H_{10}$	6343	$C_{14}H_2O_2$	Various Solvents	6407
$C_{14}H_{10}$	6344	$C_{15}H_{10}O_5$	>	6408
$C_{16}H_{10}$	6345, 6346	$C_{15}H_{10}O_7$	>	6409
Various Solvents	6347—6351	$C_{15}H_{10}N_6O_9S$	>	6410
>	6352, 6353	$C_{15}H_{12}O_3$	>	6411
$C_nH_{2n+2}O$	6354	$C_{15}H_{14}O_5$	>	6412
$C_{13}H_{10}$	6355	$C_{15}H_{17}N_3O_8S$	>	6413, 6414
$C_{16}H_{10}$	6356	$C_{15}H_{18}O_3$	$C_nH_{2n+2}O$	6415
$C_nH_{2n+2}O$	6357	$C_{15}H_{19}N_3O_9S$	Oil	6416
Various Solvents	6358	$C_{15}H_2NO_2$	Various Solvents	6417
>	6359	$C_{16}H_{12}NO_2$	Ligroin	6418
>	6360	$C_{16}H_{13}O_2Br$	Various Solvents	6419
H_2O_2	6361	$C_{16}H_{18}NO_4P$	$C_{16}H_{22}O_4$	6420
$C_{16}H_{32}O_2$	6362	$C_{16}H_{18}N_4O_3$	$C_{17}H_{16}N_2O_3$	6421
$C_nH_{2n+2}O$	6363	$C_{16}H_{22}O_4$	$C_{18}H_{18}N_4O$	6422
Various Solvents	6364	>	$C_{18}H_{22}N_2O_4$	6423
>	6365	>	$C_{22}H_{16}N_2O_2$	6424
$C_{14}H_{10}$	6366—6368	>	$C_{24}H_{21}N_5$	6425
$C_{16}H_{10}$	6369, 6370	>	$C_{27}H_{24}N_2O_6S_2Na$	6426
Various Solvents	6371	$C_{16}H_{32}O_2$	$C_{18}H_{36}O_2$	6427
>	6372	>	$C_nH_{2n+2}O$	6428
Benzine	6373	>	Various Solvents	6429
Various Solvents	6374	$C_{16}H_{34}O$	$C_nH_{2n+2}O$	6430
>	6375	$C_{17}H_{17}NO_2$	Oil	6439
>	6376	$C_{17}H_{18}NO_2Cl$	Various Solvents	6431
Oil	6377	$C_{17}H_{19}NO_3$	$C_nH_{2n+2}O$	6432

Component A	Component B	Table No.	Component A
$C_{17}H_{16}NO_3$	Various Solvents	6433—6438, 6440, 6441	$C_{20}H_{24}N_2O_2$
$C_{17}H_{20}O_2$	»	6442	$C_{21}H_{18}S_3$
$C_{17}H_{20}N_2O$	»	6443	$C_{21}H_{20}O_{11}$
$C_{17}H_{21}NO_4$	$C_nH_pO_q$	6444—6448	$C_{21}H_{21}NO_8$
$C_{17}H_{22}NO_4Br$	Various Solvents	6455	$C_{21}H_{22}N_2O_2$
$C_{17}H_{23}NO_3$	»	6449—6454	»
$C_{18}H_{17}N_3O_9S$	$C_nH_{2n+2}O$	6456	$C_{22}H_{18}O$
$C_{18}H_{21}NO_3$	Petroleum ether	6457	$C_{22}H_{25}NO_6$
»	Oil	6458	$C_{22}H_{27}N_3O_5$
$C_{18}H_{30}O_7$	Various oils	6459	$C_{22}H_{30}O_6Ca$
$C_{18}H_{34}O_2$	$C_{18}H_{36}O_2$	6460	$C_{22}H_{38}O_7$
$C_{18}H_{34}O_2$	Various Solvents	6461, 6462	$C_{22}H_{42}O_2$
$C_{18}H_{36}O_2$	»	6463	$C_{23}H_{20}O$
$C_{19}H_{21}NO_3$	»	6464	$C_{23}H_{22}O_6$
$C_{19}H_{22}N_2O$	»	6465	$C_{23}H_{22}N_4O_8$
$C_{19}H_{22}N_2O_2$	»	6466	$C_{23}H_{26}N_2O_4$
$C_{19}H_{23}NO_3$	Various oils	6467, 6468	$C_{23}H_{28}N_2O_8S$
$C_{19}H_{26}O_{12}$	Various Solvents	6469	$C_{24}H_{22}O$
$C_{20}H_{14}O_4$	Petroleum ether	6470	$C_{27}H_{26}N_4O_{12}$
»	Various Solvents	6471	$C_{27}H_{46}O$
$C_{20}H_{23}NO_7$	Oil	6472	$C_{28}H_{26}N_4O_9$
»	Petroleum ether	6473	$C_{28}H_{28}N_4O_{14}$
$C_{20}H_{24}N_2O_2$	»	6474—6476	$C_{28}H_{30}N_4O_{15}$
			$C_{29}H_{40}N_2O_4$
			$C_{30}H_{48}O_3$

Component B	Table No.	Component A	Component B	Table No.
Various Solvents	6477, 6478	$C_{31}H_{51}O_{10}$	Various Solvents	6506
>	6479, 6480	$C_{32}H_{49}NO_9$	>	6507, 6508
>	6481	$C_{32}H_{64}O_2$	>	6509
>	6482	$C_{34}H_{40}N_2O_{10}S$	>	6510
Petroleum ether	6483	$C_{34}H_{48}NO_{11}$	>	6511, 6512
Various oils	6484, 6485	$C_{34}H_{48}N_2O_{10}S$	>	6513, 6514
Various Solvents	6486	$C_{34}H_{58}O_2$	>	6515
>	6487, 6488	$C_{37}H_{30}N_3Cl$	>	6516
>	6489	$C_{40}H_{48}N_2O_8S$	>	6517
>	6490	$C_{40}H_{50}N_4O_8S$	>	6518
>	6491	$C_{43}H_{39}N_5O_{16}$	>	6519
$C_nH_{2n+2}O$	6492	$C_{43}H_{82}O_6$	>	6520, 6521
Various solvents	6493	$C_{45}H_{80}O_2$	Various oils	6522
>	6494	$C_{45}H_{86}O_6$	Various Solvents	6523, 6524
>	6495	$C_{47}H_{90}O_6$	>	6525—6528
Petroleum ether	6496	$C_{49}H_{94}O_6$	>	6529, 6530
Various Solvents	6497	$C_{51}H_{98}O_6$	$C_{57}H_{104}O_6$	6531
>	6498	>	$C_{57}H_{110}O_6$	6532
>	6499	>	Petroleum ether	6533
>	6500	>	Various Solvents	6534, 6535
>	6501	$C_{57}H_{104}O_6$	$C_{57}H_{110}O_6$	6536
>	6502	$C_{57}H_{110}O_6$	Oil	6537
>	6503	Paraffin	Various Solvents	6538
Oil	6504	Diphenylamine blue	>	6539
Various Solvents	6505	Firedamp mine methane	>	6540

INDEX

ACENAPHTHENE	$C_{12}H_{10}$	.....	Chloroform	4326
			Ethanol	4972
			Fluoranthene	6345
			Fluorene	6343
			Methanol	4591
			1-Propanol	5275
			Toluene	6147
			Water	1688
			Ethanol	4770
ACETALDEHYDE	C_2H_4O	.....	Water	1125
—, Tribromo —		.....	Ethanol	4835
— —, hydrate		.....	Water	1
—, Trichloro —		.....	Carbon Disulfide	4152
— —, formamide		.....	Chloroform	4266
— —, hydrate		.....	Ethanol	4713, 4714
			Ethyl Ether	4716
			Glycerol	4715
			Olive Oil	4720
			Pyridine	4717
			Quinoline	4719
			Toluene	4718
			Turpentine Oil	5144
			Water	1124
—, Trithio —		.....	Various Solvents	6032, 6033
ACETAMIDE	C_2H_5NO	.....	Benzene	4809
			Dodecanoic Acid	4811
			Ethanol	4807
			Ethyl Carbamate	4808
			Hexadecanoic Acid	4813
			Octadecanoic Acid	4816
			9-Octadecenoic Acid	4814
			trans-9-Octadecenoic Acid	4815
			Tetradecanoic Acid	4812
			p-Toluidine	4810
			Water	1140
ACETANILIDE	C_8H_9NO	.....	Ammonia	3534
			Carbon Tetrachloride	4083
			Chloroform	4312
			Ethanol	4938, 4941
			Ethyl Carbamate	5240
			Methanol	4574
			Phenol	5976
			Toluene	6134
			Various Solvents	6208
			Water	1, 1545, 1546

ACETANILIDE C_8H_9NO

—, 4-Acetoxy —.
—, 4-Bromo —.
—, 2-Chloro —.
—, 2-Chloro-4-bromo —.
—, 2-Chloro-4-nitro —.
—, 3-Chloro —.
—, 4-Chloro —.
—, 4-Chloro-2-bromo —.
—, 4-Chloro-2-nitro —.
—, 2,4-Dibromo —.
—, 2,4-Dichloro —.
—, 4-Methoxy —.
—, 2-Nitro —.
—, 3-Nitro —.
—, 4-Nitro —.

Chloroform	4320
Water	1
Ethanol	4940
Benzene	5851
Water	1539
Ethanol	4929
Water	1
Benzene	5850
Water	1538
Benzene	5852
Ethanol	4939
Water	1540
Ethanol	4930
Water	1
Ethanol	4931
Acetic Acid	4785
Ethanol	4928
Water	1
Benzene	5854
Water	1,1542
Benzene	5853
Water	1541
Acetic Acid	4787
Benzene	5855
Water	1,1543

p-ACETANISIDE see Acetanilide, 4-methoxy —.

ACETIC ACID $C_2H_4O_2$

Acetamide	4771
Aniline	4782
Benzene	4780
Carbon Disulfide	4153
Cotton Seed Oil	4801
Cyclohexane	4783
Ethanol	4772
Kerosine	4799
Nitrobenzene	4779
Petroleum	4800
Phenylacetic Acid	4786
Pyridine	4776
Water	1135,6551

ACETIC ACID

—, 2-(β -Butoxyethoxy)ethyl ester
—, Butyl ester
—, Ethyl ester
—, Isopropyl ester
—, Methyl ester
—, γ -Methylbutyl ester
—, α -Methylpropyl ester
—, Octyl ester
—, Pentyl ester
—, Propyl ester
—, α -Chloro —.
—, β -Chloro —.
—, γ -Chloro —.
—, Phenyl —.
—, Phosphono —.

Water	1609
Water	1,1401,1402
Ethanol	4854
Water	1203-1209
Water	1
Water	1,1160
Water	1509
Water	1
Water	1608
Water	1
Water	1
Water	1121
Water	1122
Water	1123
Benzene	5840
Urea	4635
Water	1
Water	1

ACETIC ACID $C_2H_4O_2$	
—, Thioacetonedimercapto —	Water 1495
—, Trichloro —	Water 1
—, Ureido —	1-Butanol 5 228
	Various Solvents 5229
ACETIC ANHYDRIDE $C_4H_6O_3$	Carbon Disulfide 4 158,4 159
	Cyclohexane 5351
	Petroleum 5353
ACETONE C_3H_6O	Acid Dye Bright Green J 5223
	Anabasine Hydrochloride 5192
	Anabasine Hydroiodide 5193
	Aphillidine Chlorohydrate 5202
	Aphillidine Iodohydrate 5203
	Aphiline Chlorohydrate 5227
	Benzene 5168
	Blue Dye K for silk
	Acetate 5205
	Chloroform 4270
	Cyanine Dye Green 5G 5207
	2,7-Dimethyloctane 5194
	Ethyl Ether 5162
	Glycerol 5158
	Lupinine Hydrochloride 5185
	Scarlet Dye J for Silk
	Acetate 5204
	Sudan Blue Dye U 5217
	Sudan Red Dye 7V 5218
	Sudan Yellow Dye U 5206
ACETONE	
—, Benzoyl —, see 1,3-Butanedione, 1-phenyl —	
—, Diethylsulfone	Various Solvents 6 185,6 186
—, Phenylhydrazone	Water 1584
ACETONITRILE C_2H_3N	Water 1126
p-ACETOPHENETIDE $C_{10}H_{13}NO_2$	Ethanol 4958,4959
	Ethyl Ether 5482
	Petroleum ether 6293
	Pyridine 5593
	Quinoline 6243
	Various Solvents 6294
	Water 1
ACETOPHENETIDE HYDRATE $C_{10}H_{13}NO_2 \cdot H_2O$	
—, 3,5-Dimethoxy —	Water 1622
ACETOPHENONE C_8H_8O	Benzene 5839
	Ethanol 4932
	Glycerol 5302
—, Chloro —	Acetophenone 6197
	Benzene 5835
	Carbon Tetrachloride 4082
	Ethanol 4926
o-ACETOTOLUIDE $C_9H_{11}NO$	Acetone 5187
	Benzene 5872
	1-Butanol 5470
	Carbon Tetrachloride 4087
	Chloroform 4316
	Ethanol 4948
	Ethyl Ether 5475
	Methanol 4577
	2-Methyl-1-propanol 5471
	1-Propanol 5267
	2-Propanol 5268

p-ACETOTOLUIDE	$C_9H_{11}NO$	.....	Benzene	5873
			1-Butanol	5472
			Carbon Tetrachloride	4088
			Chloroform	4317
			Ethanol	4949
			Ethyl Ether	5476
			Methanol	4578
			2-Methyl-1-propanol	5473
			2-Methyl-2-propanol	5474
			1-Propanol	5269
			2-Propanol	5270
			Water	1578
			Heavy Water	5646
			Water	1,1242
ACETYLACETONE	$C_5H_8O_2$	.....	Acetoacetic Ester	4684
			Acetone	4672,4673
			Benzene	4682
			Butyl 2-Hydroxypropanoate	4687
			Carbon Tetrachloride	4049
			Chlorobenzene	4681
			Dichloroethane	4670
			N,N-Dimethylacetamide	4679
			N,N-Dimethylformamide	4675,4676
			Dioxane	4677
			Ethanol	4671
			Ethenyloxybutane	4685
			Ethyl Acetate	4678
			Heavy Solvent	4689
			4-Hydroxy-4-methyl-2-pentanone	4686
			Kerosine	4688
			Methyl Acetate	4764
			4-Methyl-3-penten-2-one	4683
			N-Methylpyrrolidine	4680
			Nitrogen	1785
			Oxygen	1826
			Various Solvents	4690-4692
			Water	1,1114
ACETYLENE				
—, Methyl —.		see Propyne.		
ACONITIC ACID	$C_6H_8O_6$	.....	Formic Acid	4431
			Water	1
			Various Solvents	6511,6512
			Water	1152
ACONITINE	$C_{34}H_{49}NO_{11}$	.....	Water	1150
ACROLEIN	C_3H_4O	.....	Formic Acid	4433
ACRYLIC ACID	$C_3H_4O_2$	.....	Water	1,1376
—, Trichloro —.		.....	Water	1
ADIPIC ACID	$C_6H_{10}O_4$	.....	Water	1,1499
—, Ethyl ester		.....	Trichloroethylene	4661
—, 2-Methyl —.		.....	Water	25,26
AGARIC ACID	$C_{22}H_{40}O_7$	.....	Pyridine	5236
AIR		.....	Water	1,1167,1168
ALANINE	$C_3H_7NO_2$	.....	Butenoic Acid	5389
—, β -Phenyl —.		.....	Water	1,1580
di-ALANINE				
—, β -Phenyl —.		.....	Water	1580

1-ALANINE		
—, β -Phenyl—	Water	1579
β -ALANINE		
—, Methyl—	Water	1
—, β (α -Naphthyl)—	Water	1
ALBUMIN	Pyridine	5639
	Water	1
ALIZARIN $C_{14}H_6O_4$	Carbon Tetrachloride	4104
	Chloroform	4341
	Ethanol	5115
	Formic Acid	4450
	Pyridine	5606
	Water	1640
	Water	1
ALLANTOIN $C_4H_6N_4O_3$	Water	1
ALLOXAN $C_4H_2N_2O_4$	Water	1
ALLYL ETHER $C_6H_{10}O$	Water	1375
ALLYL MUSTARD OIL	see Isothiocyanic Acid, 2-propenyl ester	
ALUMINUM Al	Aluminum Iodide	1957
	Mercury	1956
—, Acetate $Al(C_2H_3O_2)_3$		
—, trifluoro—	Trifluoroacetic Acid	2707
—, Ammonium Sulfate $(NH_4)_2Al_2(SO_4)_4$	Water	550
—, Cesium Sulfate $Cs_2Al_2(SO_4)_4$	Water	477
—, Chlorate $Al(ClO_4)_3$	Water	827
—, Fluoride AlF_3	Bromine Trifluoride	2233
—, Helianthate $Al(C_{14}H_{14}N_3SO_3)_3$	Water	1
—, Hexa-antipyrine $Al(C_{11}H_{12}N_2O)_6X_3$		
—, perchlorate	Water	1
—, tetrafluoroborate	Water	1
—, Hydroxide $Al(OH)_3$	Water	1
—, Nitrate $Al(NO_3)_3$	Tributyl Phosphate	2706
	Water	828,829
—, Nitroso- β -phenylhydroxylamine $Al(C_6H_5N_2O_2)_3$	Water	1
—, Octadecanoate $Al(C_{18}H_{35}O_2)_3$	Acetone	3316
	Benzene	3317
	Methanol	3315
—, 9-Octadecenoate $Al(C_{18}H_{33}O_2)_3$	Acetone	3313
	Benzene	3314
	Methanol	3312
—, Perchlorate $Al(ClO_4)_3$	Water	827
—, Potassium Sulfate $K_2Al_2(SO_4)_4$	Water	343,344
—, Rubidium Sulfate $Rb_2Al_2(SO_4)_4$	Water	409,414
—, Sodium Sulfate $Na_2Al_2(SO_4)_4$	Water	191,192
—, Sulfate $Al_2(SO_4)_3$	Glycol	3311
	Water	1,830,832
—, Thallium Sulfate $AlTlSO_4 \cdot 12H_2O$	Water	1
—, Tribromide $AlBr_3$	Benzene	3297,3298
	Benzonitrile	3301
	Benzophenone	3307
	Benzoyl Chloride	3300
	Boron Bromide	3256
	Bromoethane	3286
	<i>o</i> -, <i>m</i> -, & <i>p</i> -Bromonitro- benzene	3293-3295
	Butane	3287
	Carbon Disulfide	3285
	<i>o</i> -, <i>m</i> -, & <i>p</i> -Chloronitro- benzene	3290-3292
	Cyclohexane	3299
	1,4-Dimethylbenzene	3306
	Nitrobenzene	3296
	<i>o</i> -, <i>m</i> - & <i>p</i> -Nitrotoluene	3302-3304

ALUMINUM Al

—, Tribromide $AlBr_3$

—, Trichloride $AlCl_3$

—, Trifluoride AlF_3

—, Triiodide AlI_3

AMMONIA NH_3

AMMONIUM

—, Acetate $C_2H_3O_2NH_4$

— —, p-nitrophenyl —.

Phosphorus Oxychloride	3310
Pyridine	3288,3289
Toluene	3305
Benzene	3271,3272
Benzophenone	3284
Benzoyl Chloride	3276
o-, m-, & p-Bromonitro- benzene	3267-3269
Carbon Tetrachloride	3262
Chloroform	3263
o-, m-, & p-Chloronitro- benzene	3264-3266
Cyclohexane	3273
1,3-Dimethylbenzene	3282
Hexane	3275
Hydrazine	3261
Mesitylene	3283
Methylcyclopentane	3274
Nitrobenzene	3270
o-, m- & p-Nitro toluene	3277-3279
Phosphorus Oxychloride	3310
Toluene	3280,3281
Water	826
Bromine Trifluoride	2233
Hydrogen Fluoride	3260
Phosphorus Oxychloride	3310
Water	1
Phosphorus Oxychloride	3310
Pyridine	3309
Sulfur Dioxide	3308
Acetamide	3515
Acetic Acid	3514
Adiponitrile	3525
Carbon Tetrachloride	3506
Chloroform	3507
Cyclohexanol	3527
Ethanol	3516,3517
Ethyl Ether	3518
Formamide	3508
Hydrogen	1698
Hydrogen Peroxide	3504
Hydrogen Sulfide	3825
Hydroxylamine	3505
Methane	3509
Methanol	3510
Nitrobenzene	3521
Nitrogen	1770-1772
Various Solvents	3538
Water	946-952
Acetic Acid	2761
Acetone	2762
Ammonia	2758
Methanol	2760
Sulfur Dioxide	2759
Ethanol	2754
Methanol	2753
Water	568

AMMONIUM

—, Acetate $C_2H_3O_2NH_4$	
— —, phenoxy —.	Ethanol 2754
	Methanol 2753
	Water 568
—, Aluminum Sulfate $(NH_4)_2Al_2(SO_4)_4$	Water 550
—, Anthraquinone-1,5-disulfonate $C_{14}H_{14}N_2O_8S_2$	Water 578
—, Anthraquinone-1,8-disulfonate	Water 578
—, Anthraquinone-1,6-disulfonate	Water 578
—, Anthraquinone-1,7-disulfonate	Water 578
—, Arsenate, di-H. $NH_4H_2AsO_4$	Water 515
—, Azide NH_4N_3	Water 503
— —, tetramethyl —.	Various Solvents 2771
—, Benzenesulfonate $(C_6H_5SO_3)NH_4$	
— —, 2-chloro-4-nitro —.	Ethanol 2754
	Methanol 2753
	Water 568
— —, 2,5-dichloro —.	Ethanol 2754
	Methanol 2753
	Water 568
— —, 2,5-diiodo	Water 1
—, Benzoate $C_7H_5NO_2$	Glycerol 2774
	Methanol 2773
	Water 1
— —, 2,4-dinitro —.	Ethanol 2754
	Methanol 2753
	Water 568
— —, 2-hydroxy —.	Acetone 2776
	Ethyl Ether 2777
	Methanol 2775
— —, 2-hydroxynitro —.	Various Solvents 2772
— —, 2-iodo —.	Ethanol 2754
	Methanol 2753
	Water 568
— —, 2-methoxy —.	Ethanol 2754
	Methanol 2753
	Water 568
—, Beryllium Phosphate NH_4BePO_4	Water 1
—, Bromide NH_4Br	Ammonia 2716
	Ethanol 2721, 2722
	Ethyl Ether 2723
	Hydrazine 2717
	Methanol 2720
	Sulfur Dioxide 2718, 2719
	Water 491, 492
— —, diethyl —.	Chloroform 4276
	Water 1
— —, tetraethyl —.	Acetonitrile 2782
	Butanol 5529
	Chloroform 2781
	Methanol 4616
	Various Solvents 2783
	Water 1
— —, tetramethyl —.	Acetonitrile 2768
	Butanol 5529
	Ethyl N-Ethylcarbamate 2769
	Methanol 4616
— —, tetrapropyl —.	Butanol 5529
	Methanol 4616
— —, triethyl —.	Chloroform 4293
	Water 1

AMMONIUM

—, Bromocamphorsulfonate $C_{10}H_{14}NO_4BrS$	
— —, phenylethyl —.	Water 1647
— —, p-tolylolethyl —.	Water 1652
—, Bromodiiodide NH_4BrI_2	
— —, phenyltrimethyl —.	Acetic Acid 2788
—, Cadmium Bromide NH_4CdBr_3	Ethanol 2747,2748
	Water 1,548
	Water 549
—, Cadmium Chloride NH_4CdCl_3	Water 546
—, Cadmium Chloride $(NH_4)_4CdCl_6$	Water 547
—, Cadmium Iodide NH_4CdI_3	Ethanol 2749
	Ethyl Ether 2751
	Ethanol 2750
—, Cadmium Iodide $(NH_4)_2CdI_4$	Ethyl Ether 2752
	Water 1
—, Calcium Arsenate $NH_4CaAsSO_4$	Water 1
—, Calcium Hexacyanoferrate $(NH_4)_2CaFe(CN)_6$	Water 1
—, Carbonate $(NH_4)_2CO_3$	Ethanol 2734
	Glycerol 2735
— —, mono H—. NH_4HCO_3	Water 502
—, Cerium Nitrate $(NH_4)_2Ce(NO_3)_6$	Water 551
—, Cerium Nitrate $(NH_4)_2Ce(NO_3)_6$	Water 552
—, Cerium Sulfate $(NH_4)_2Ce(SO_4)_4$	Water 553
—, Chloride NH_4Cl	Acetic Acid 2714,2715
	Ammonia 2708,2709
	Hydrazine 2710
	Methanol 2713
	Sulfur Dioxide 2711,2712
	Water 488-490
— —, benzyl —.	Water 1
— —, dibenzyl —.	Chloroform 4351
	Water 1
— —, diethyl —.	Chloroform 4274
	Water 1
— —, dimethyl —.	Chloroform 4267
	Water 1
— —, dimethyldodecyl —.	Benzene 5922
	Ethanol 5005
— —, dipropyl —.	Chloroform 4292
	Water 1
— —, dodecyl —.	Benzene 5896
	Butanol 5489
	Carbon Tetrachloride 4098
	Chloroform 4327
	Ethanol 4978,4979
	Ethyl Acetate 5393
	Tetrabromomethane 4145
	Tribromomethane 4409
— —, ethyl —.	Chloroform 2763,4268
	Water 1
— —, 3-methylbutyl —.	Chloroform 4278
	Water 1
— —, methyl dodecyl —.	Benzene 5910
	Ethanol 4997
— —, 2-methylpropyl —.	Chloroform 4275
	Water 1
— —, phenylmethyl —.	Water 1
— —, propyl —.	Chloroform 4272
	Water 1
— —, tetraethyl —.	Acetonitrile 2779
	Chloroform 2778

AMMONIUM

—, Chloride NH_4Cl	Various Solvents	2780
— —, tetraethyl —	Water	1
— —, tetramethyl —	Acetonitrile	2767
	Butanol	5529
	Methanol	4616
	Water	1
— —, tetrapropyl	Water	1
— —, tribenzyl —	Chloroform	4382
	Water	1
— —, triethyl	Chloroform	4291
	Water	1
— —, trimethyldodecyl —	Ethanol	5010
—, Chromate $(\text{NH}_4)_2\text{CrO}_4$	Water	1,523
—, Chromium Sulfate $\text{NH}_4\text{Cr}(\text{SO}_4)_2$	Water	1,557
—, Cobalt Malonate $(\text{NH}_4)_2\text{Co}(\text{C}_3\text{H}_2\text{O}_4)_2$	Water	1
—, Cobalt Sulfate $(\text{NH}_4)_2\text{Co}(\text{SO}_4)_2$	Water	560,561
—, Copper Chloride $(\text{NH}_4)_2\text{CuCl}_4$	Water	384
—, Copper Sulfate $(\text{NH}_4)_2\text{Cu}(\text{SO}_4)_2$	Water	385
—, Dibromiodide NH_4IBr_2	Chloroform	2805
— —, diethyl —	Chloroform	2805
— —, diisopropyl	Chloroform	2805
— —, dimethyl	Chloroform	2805
— —, ethyl —	Chloroform	2805
— —, ethyltrimethyl —	Chloroform	2805
— —, methyl —	Chloroform	2805
— —, phenyl —	Chloroform	2805
— —, phenylmethyl —	Chloroform	2805
— —, phenyltrimethyl —	Acetic Acid	2788
— —, propyl —	Chloroform	2805
— —, tetramethyl —	Chloroform	2805
— —, trimethyl —	Chloroform	2805
—, Dichlorobromide NH_4BrCl_2		
— —, phenyltrimethyl —	Acetic Acid	2788
—, Dichloriodide $\text{NH}_4\text{Cl}_2\text{I}$		
— —, phenyltrimethyl —	Acetic Acid	2788
—, Dichromate $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$	Water	1,524
—, Didymium Nitrate $(\text{NH}_4)_2\text{Dl}(\text{NO}_3)_3$	Water	1
—, Dithionate $(\text{NH}_4)_2\text{S}_2\text{O}_6$	Water	520
—, Dodecanoate $\text{C}_{12}\text{H}_{25}\text{O}_2\text{NH}_4$	Trichloroethylene	2790
—, Ennefluoroborate $\text{NH}_4\text{B}_3\text{F}_9$	Water	1
—, Formate CH_3NO_2	Formic Acid	2755
	Water	569
—, Formate, Hydrogen Formate $\text{C}_2\text{H}_7\text{NO}_4$	Water	571
—, Gallium Sulfate $\text{NH}_4\text{Ga}(\text{SO}_4)_2$	Water	1
—, Gluconate $\text{C}_6\text{H}_{11}\text{O}_7\text{NH}_4$	Water	1
—, Gold Nitrate $(\text{NH}_3)_4\text{Au}(\text{NO}_3)_3$	Water	1
—, Helianthate $\text{C}_{14}\text{H}_{14}\text{N}_3\text{O}_3\text{SNH}_4\text{D}$	Water	1
—, Heptafluorohafnate $(\text{NH}_4)_3\text{HfF}_7$	Water	1
—, Hexabromoplatinate $(\text{NH}_4)_2\text{PtBr}_6$	Water	1,538
—, Hexabromostannate $(\text{NH}_4)_2\text{SnBr}_6$	Water	535
—, Hexachloroiridate $(\text{NH}_4)_2\text{IrCl}_6$	Water	1,563,564
—, Hexachloroiridate $(\text{NH}_4)_2\text{IrCl}_6$	Water	1
—, Hexachloroplatinate $(\text{NH}_4)_2\text{PtCl}_6$	Water	536,537
—, Hexachlorostannate $(\text{NH}_4)_2\text{SnCl}_6$	Water	532
—, Hexadecanoate $\text{C}_{16}\text{H}_{31}\text{O}_2\text{NH}_4$	Acetone	2794
	Ethanol	2793
—, Hexafluoaluminate $(\text{NH}_4)_3\text{AlF}_6$	Water	1
—, Hexafluorohafnate $(\text{NH}_4)_3\text{HfF}_6$	Water	1

AMMONIUM

—, Hexafluorophosphate $NH_4PF_6 \cdot F_6$	Water	1
— —, tetraethyl —	Water	1
— —, tetramethyl —	Water	1
—, Hexafluosilicate $(NH_4)_2SiF_6$	Ethanol	2746
—, Hexafluotitanate $(NH_4)_2TiF_6$	Water	1
—, Hypophosphite, di-H. $NH_4H_2PO_2$	Water	1
—, Indium Sulfate $(NH_4)_2In(SO_4)_4$	Water	1
—, Iodate NH_4IO_3	Water	1
—, Iodide NH_4I	Ammonia	2724
	Ethyl N-Ethylcarbamate	2726
	Sulfur Dioxide	2725
	Water	493
— —, diethyl —	Chloroform	4277
	Water	1
— —, tetrabutyl —	Butanol	5529
	Methanol	4616
— —, tetraethyl —	Butanol	5529
	Chloroform	2784
	Ethyl N-Ethylcarbamate	2785
	Methanol	4616
	Various Solvents	2786, 2787
	Water	1
— —, tetramethyl —	Butanol	5529
	Ethyl N-Ethylcarbamate	2770
	Methanol	4616
	Various Solvents	2764
— —, tetrapentyl —	Chloroform	2801
	Water	1
— —, tetrapropyl —	Butanol	5529
	Chloroform	2791
	Methanol	4616
	Various Solvents	2792
	Chloroform	4294
	Water	1
—, Iodomercurate $(NH_4)_2HgI_4$	Water	1
—, Iron Sulfate $(NH_4)_2Fe(SO_4)_2$	Water	1,559
—, Lanthanum Nitrate $(NH_4)_2La(NO_3)_6$	Water	1
—, Lead Hexacyanocobaltate $NH_4PbCo(CN)_6 \cdot 3H_2O$	Water	1
—, Lead Sulfate $(NH_4)_2Pb(SO_4)_2$	Water	556
—, Lithium Sulfate $NH_4Li(SO_4)_2$	Water	79
—, Magnesium Arsenate NH_4MgAsO_4	Water	541
—, Magnesium Hexacyanoferrate $(NH_4)_2MgFe(CN)_6$	Water	1
—, Magnesium Nitrate $(NH_4)_2Mg(NO_3)_4$	Water	1
—, Magnesium Phosphate NH_4MgPO_4	Water	540
—, Magnesium Sulfate $(NH_4)_2Mg(SO_4)_2$	Water	542
—, Manganese Phosphate NH_4MnPO_4	Water	1
—, Manganese Sulfate $(NH_4)_2Mn(SO_4)_2 \cdot 6H_2O$	Water	1,558
—, Mandelates $C_8H_9NO_3$		
— —, phenylethyl —	Water	1645
— —, p-tolyloethyl —	Water	6556
—, Metavanadate NH_4VO_3	Hydrazine	2742
	Water	1,513,514
—, Methanedisulfonate $CH_3O_2N_2O_6S$	Water	1
—, Molybdomanganate $(NH_4)_2Mn_2(MO_2O_7)_3MoO_4 \cdot 12H_2O$	Water	1
—, 14-Molybdotetraoxophosphate $(NH_4)_3PO_4(MoO_3)_{14}$	Water	1
—, Naphthalenesulfonate $C_{10}H_7O_3SNH_4$	Various Solvents	2789
—, 1-Naphthol-7-Sulfonate $C_{10}H_7O_4SNH_4$		
— —, 2,4-dinitro —	Various Solvents	6289

AMMONIUM

—, 1-Naphthol-7-Sulfonate $C_{10}H_7O_4SNH_4$		
— — —, 2,4-dinitro —		
— — —, ethanol —	Various Solvents	6354
— — —, methyl —	Various Solvents	6323
— — —, tetramethyl —	Various Solvents	6403
— — —, trimethyl —	Various Solvents	6374
—, 2-Naphthylamine-5,7-disulfonate $C_{10}H_7NO_6S(NH_4)_2$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, 2-Naphthylaminesulfonate $C_{10}H_8NO_3SNH_4$	Water	1
—, Nickel Sulfate $(NH_4)_2Ni(SO_4)_2$	Water	562
—, Nitrate NH_4NO_3	Acetic Acid	2740
	Ammonia	2736, 2737
	Hydrazine	2738
	Nitric Acid	2739
	Pyridine	2741
	Water	505-508
—, Nitrate. Dihydrogen Nitrate $NH_4NO_3 \cdot 2HNO_3$	Water	509
—, Nitrite NH_4NO_2	Water	504
—, Octadecanoate $C_{18}H_{35}O_2NH_4$	Acetone	2799
	Ethanol	2798
	Ethyl Ether	2800
	Trichloroethylene	2797
—, 9-Octadecenoate $C_{18}H_{33}O_2NH_4$	Acetone	2796
	Ethanol	2795
—, Oxalate $C_2O_4(NH_4)_2$	Formic Acid	2757
	Hydrazine	2756
	Water	570
—, Parawolframate $5(NH_4)_2O \cdot 12WO_3$	Water	529
—, Pentaborate $(NH_4)_2O \cdot 5B_2O_3$	Water	501
—, Pentachloroiodate $(NH_4)_2I \cdot Cl_5 \cdot H_2O$	Water	1
—, Perchlorate NH_4ClO_4	Ammonia	2731
	Sulfur Dioxide	2732
	Various Solvents	2733
	Water	496-499
— — —, diethyl —	Water	499
— — —, dimethyl —	Water	499
— — —, dimethyldiethyl —	Water	499
— — —, ethyl —	Water	499
— — —, methyl —	Water	499
— — —, methyltriethyl —	Water	499
— — —, β -nitroethyltrimethyl —	Water	1
— — —, phenyltrimethyl —	Water	499
— — —, tetraethyl —	Water	499
— — —, tetramethyl —	Water	499
— — —, triethylpropyl —	Water	499
— — —, trimethyl —	Water	499
— — —, trimethylbromoethyl —	Water	499
— — —, trimethylbromoethylene —	Water	499
— — —, trimethylbromopropyl —	Water	499
— — —, trimethylbutyl —	Water	499
— — —, trimethyldibromoethyl —	Water	499
— — —, trimethylethanol —	Water	499
— — —, trimethylethyl —	Water	499
— — —, trimethylethylene —	Water	499
— — —, trimethyliodomethyl —	Water	499
— — —, trimethylnitroethyl —	Water	499
— — —, trimethylpentyl —	Water	499
— — —, trimethyl-1,2-Propanediol —	Water	499
— — —, trimethylpropyl —	Water	1,499

AMMONIUM

—, Permanganate NH_4MnO_4	Water	1
—, Peroxydisulfate $(\text{NH}_4)_2\text{S}_2\text{O}_8$	Water	1
—, Perrhenate NH_4ReO_4	Water	1
—, 2-Phenanthrenesulfonate $\text{C}_{14}\text{H}_9\text{O}_3\text{SNH}_4$	Water	579
—, 3-Phenanthrenesulfonate	Water	579
—, 10-Phenanthrenesulfonate	Water	579
—, chloro —.	Water	1
—, Phosphate, mono-H. $(\text{NH}_4)_2\text{HPO}_4$	Water	511,512
—, di H —.	Water	510
—, Picrate $\text{C}_6\text{H}_5\text{N}_3\text{O}_7$	Water	1
—, Pyroselenite $(\text{NH}_4)_2\text{Se}_2\text{O}_5$	Water	527
—, Pyrosulfite $(\text{NH}_4)_2\text{S}_2\text{O}_5$	Sulfur Dioxide	2744
	Water	1
—, Ruthenium Nitrosylchloride $\text{Ru}(\text{NH}_4)\text{Cl}_5\text{NO}$	Nitrosylchloride	1054
—, Selenite $(\text{NH}_4)_2\text{SeO}_3$	Water	526
—, Selenite, mono H —. Dihydrogen Selenite $\text{NH}_4\text{H}_3(\text{SeO}_3)_2$	Water	525
—, Sodium Sulfite, mono — H. $\text{Na}_2\text{NH}_4\text{H}(\text{SO}_3)_2$	Water	1
—, Strontium Sulfate $(\text{NH}_4)_2\text{Sr}(\text{SO}_4)_2$	Water	545
—, Succinate $\text{C}_4\text{H}_4\text{O}_4(\text{NH}_4)_2$	Acetone	2766
	Methanol	2765
—, chloro —.	Water	572
— — —, mono — H.	Water	573
— — —, hydroxy —.	Water	575
—, Sulfate $(\text{NH}_4)_2\text{SO}_4$	Sulfur Dioxide	2745
	Water	516,517,519
— — —, phenyl β - aminoethyl	Water	1
—, Sulfide $(\text{NH}_4)_2\text{S}$	Ammonia	2743
—, Sulfito $(\text{NH}_4)_2\text{SO}_3$	Water	518
—, Tartrate $\text{C}_4\text{H}_4\text{O}_6(\text{NH}_4)_2$	Water	574
— — —, mono — H. $\text{C}_4\text{H}_4\text{O}_6\text{NH}_4$	Water	576
—, Tetraborate $(\text{NH}_4)_2\text{O} \cdot 2\text{B}_2\text{O}_3$	Water	500
—, Tetrabromostannate $(\text{NH}_4)_2\text{SnBr}_4$	Water	534
—, Tetrachlorostannate $(\text{NH}_4)_2\text{SnCl}_4$	Water	531
—, Tetrafluoromanganate MnNH_4F_4		
— — —, tetramethyl —.	Acetic Acid	3931
	Ethanol	3932
—, Tetramolybdate $(\text{NH}_4)_2\text{Mo}_4\text{O}_{13} \cdot 2\text{H}_2\text{O}$	Water	1,528
—, Tetraphenylborate $\text{C}_{24}\text{H}_{20}\text{BNH}_4$	Acetone	2803
	Ethanol	2802
	Ethyl Ether	2804
—, Tetrathioantimonate $(\text{NH}_4)_3\text{SbS}_4$	Water	539
—, Tetrathionate $(\text{NH}_4)_2\text{S}_4\text{O}_6$	Water	522
—, Thiocyanate NH_4CNS	Ammonia	2727
	Ethanol	2730
	Methanol	2729
	Sulfur Dioxide	2728
	Water	494,495
—, Thioperrhenate $\text{NH}_4\text{ReO}_3\text{S}$	Water	1
—, Tribromide NH_4Br_3		
— — —, Phenyltrimethyl —.	Acetic Acid	2788
—, Tribromostannate NH_4SnBr_3	Water	533
—, Trichlorostannate NH_4SnCl_3	Water	530
—, Trifluoromanganate NH_4MnF_3	Water	1
—, Triiodide NH_4I_3		
— — —, phenyltrimethyl —.	Acetic Acid	2788
—, Trimolybdate $(\text{NH}_4)_2\text{Mo}_3\text{O}_{10}$	Water	1
—, Trithionate $(\text{NH}_4)_2\text{S}_3\text{O}_6$	Water	521
—, Uranyl Carbonate $\text{UO}_2(\text{NH}_4)_4(\text{CO}_3)_3$	Water	1,567
—, Uranyl Chloride $(\text{NH}_4)_2\text{UO}_2\text{Cl}_4$	Water	1

AMMONIUM

—, Uranyl Nitrate $UO_2NH_4(NO_3)_3$	Water	566
—, Uranyl Propanoate $NH_4UO_2(C_3H_5O_2)_3$	Water	1
—, Urate $C_5H_3N_3O_3NH_4$	Water	1,577
—, Vanadium Sulfate $(NH_4)_2V_2(SO_4)_4$	Water	1
—, Zinc Phosphate NH_4ZnPO_4	Water	1
—, Zinc Sulfate $(NH_4)_2Zn(SO_4)_2$	Water	543,544
—, Zirconium Heptafluoride $Zr(NH_4)_3F_7$	Water	555
—, Zirconium Hexafluoride $Zr(NH_4)_2F_6$	Water	554

AMYGDALIN $C_{20}H_{27}NO$	Chloroform	4380
----------------------------------	------------	------

AMYL ALCOHOL see Pentanol

AMYLENE see Pentene

ANDROMEDOTOXINE $C_{31}H_{51}O_{10}$	Various Solvents	6506
--------------------------------------------	------------------	------

ANILINE C_6H_7N	Cyclohexane	5998
	Decane	6005
	Hexane	6000
	Octadecane	6008
	Phenol	5974
	Sulfur	2039
	Various Solvents	6016
	Water	1,1351-1353

ANILINE

—, N-Benzylidene —.	Sulfur Dioxide	3801
—, 2-Chloro —.	Benzene	5771
	Water	1341
—, 3-Chloro —.	Benzene	5770
	Water	1340
—, 4-Chloro —.	Benzene	5772
	Water	1342
—, N,N-Dimethyl —.	Glycerol	5303
	Sulfur Dioxide	3786
—, Dimethyl —.	Sulfur	2052
—, 1,3-Dimethyl —.	Water	1
—, N-Ethyl —.	Various Solvents	6228
—, Helianthate	Water	1
—, 2-Hydroxy —.	Benzene	5780
	Water	1355
—, 3-Hydroxy —.	Benzene	5779
	Water	1354
—, 4-Hydroxy —.	Benzene	5781
	Water	1356
—, Methoxy —.	Glycerol	5301
—, N-Methyl —.	Glycerol	5298
	Sulfur	2047
—, 2-Methyl —.	Sulfur	2046
	Various Solvents	6164
	Water	1,1491
—, 4-Methyl —.	Acetic Acid	4784
	Ammonia	3532
	Ethanol	4920,4921
	Various Solvents	6166
	Water	1492,1493
—, Nitro —.	Ammonia	3523
	Carbon Tetrachloride	4064
	Chloroform	4285
	p-Cymene	5988
	Dimethylbenzene	5987
	Sulfur Dioxide	3774
	Water	1345
—, 2-Nitro —.	Acetone	5173

ANILINE C_6H_7N

—, 2-Nitro —	Benzene	5775,5776
	Carbon Tetrachloride	4066
	Chloroform	4287
	Ethanol	4888
	Ethyl Acetate	5381
	Ethyl Ether	5429
	Various Solvents	5991
	Water	1,1348
—, 3-Nitro —	Acetone	5172
	Benzene	5773,5774
	Carbon Tetrachloride	4065
	Chloroform	4286
	Dibromoacetylene	4654
	Ethanol	4887
	Ethyl Acetate	5380
	Ethyl Ether	5428
	Nitrobenzene	5742
	Various Solvents	5989,5990
	Water	1,1346,1347
—, 4-Nitro —	Acetone	5174
	Benzene	5777,5778
	Chloroform	4288
	Dibromoacetylene	4655
	Ethanol	4889
	Ethyl Acetate	5382
	Ethyl Ether	5430
	Nitrobenzene	5743
	Various Solvents	5992,5993
—, Phenol	Water	1,1349
—, 1,2,3,4-Tetranitro —	Water	1620
—, 2,4,5-Trimethyl —	Various Solvents	5688
—, 2,4,6-Trinitro —	Water	1586
—, Trinitrodiethyl —	Glycol Diacetate	5720
—, Trinitroethyl —	Water	1
ANILINE-4-SULFONAMIDE $C_6H_6N_2SO_2$	Water	1544
—, N^1 - Acetyl —	Water	1373,1374
—, N^4 - Acetyl —	Water	1556
ANILINE-2-SULFONIC ACID $C_6H_7NO_3S$	Water	1557
—, 6-Bromo —	Water	1,1187
—, 4-Chloro —	Water	1361
—, 4-Iodo —	Water	1
—, 5-Iodo —	Water	1344
ANILINE-3-SULFONIC ACID $C_6H_7NO_3S$	Water	1344
—, 5-Bromo —	Water	1,1359
—, 4-Chloro —	Water	1360
—, 4-Iodo —	Water	1
—, 5-Iodo —	Water	1344
—, 6-Iodo —	Water	1344
ANILINE-4-SULFONIC ACID $C_6H_7NSO_3$	Water	1344
—, 2-Iodo —	Ammonia	3524
—, 3-Iodo —	Water	1,1357,1358
ANILINIUM	Water	1344
—, Benzene sulfonate $C_{12}H_{13}NSO_3$	Water	1344
— —, 4-chloro —	Water	1366
— —, 1-chloro-2-nitro —	Water	1362
— —, 4-chloro-2-nitro —	Water	1362
— —, 4-isopropyl —	Water	1366
— —, 4-methoxy —	Water	1366

ANILINIUM

—, Benzenesulfonate	$C_{12}H_{13}NSO_3$	Water	1362,1366
— —, 4-nitro —		Aniline	6113
—, Chloride	$C_6H_7N.HCl$	Water	1,1365
—, Helianthate	$C_{20}H_{21}N_4SO_3$	Water	1655
— —, N,N-dimethyl —		Water	1
— —, N-methyl —		Water	1
—, Hexachlorostannate	$(C_6H_7N)_2H_2SnCl_6$	Water	1
—, Sulfate, mono — H.	$C_6H_7N.H_2SO_4$	Water	1
—, Trichloroacetate	$C_8H_8NO_2Cl_3$	Water	1
ANISALDEHYDE	$C_8H_8O_2$	Ammonia	3533
ANISIC ACID	$C_8H_8O_3$	Ethanol	4936
		Methanol	4573
		1-Propanol	5265
		Water	1,1532
		Glycerol	5301
o-ANISIDINE	C_7H_9NO	Water	1362
p-ANISIDINIUM		Water	1362
—, Benzenesulfonate	$C_{20}H_{22}N_2O_3S$	Benzyl Chloride	6120
— —, 3-nitro —		Glycerol	5296
ANISOLE	C_7H_8O	Various Solvents	6119
—, 2,4-Dinitro —		Water	1
—, 2-Nitro —		Water	1
—, 4-Nitro —		Various Solvents	6087
—, 2,4,6-Trinitro —		Acetone	5199
ANTHRACENE	$C_{14}H_{10}$	Benzene	5914,5915
		Benzine	6394
		Carbon Disulfide	4170
		Carbon Tetrachloride	4106
		Chloroform	4343
		Cymene	6298
		Ethyl Ether	5493
		Heavy Naphtha	6388
		Hydrocarbon Blends	6390,6391
		Phenanthrene	6380
		Pyridine	5608
		Solvent	6384,6384a
		Sulfur Dioxide	3803
		Toluene	6151
		Various Solvents	6397,6398
		Water	1688
ANTHRAFLAVIC ACID	$C_{14}H_8O_4$	Water	1
ANTHRANILIC ACID	$C_7H_7NO_2$	Benzene	5822
		1-Butanol	5462
		Chloroform	4305
		Cymene	6130
		Ethanol	4915
		Ethyl Acetate	5387
		Methanol	4568
		Pyridine	5586
		Water	1465,1466,1468
ANTHRANILIC ACID		Ethyl Ether	5460
—, 3-Nitro —		Benzene	5911
ANTHRAQUINONE	$C_{14}H_8O_2$	Carbon Tetrachloride	4103
		Chloroform	4339,4340
		Ethanol	4998,4999
		Ethyl Ether	5490,5491
		Sulfur Dioxide	3802

ANTHRAQUINONE $C_{14}H_6O_2$	Toluene	6150
—, 1-Amino —.	Ethanol	5115
—, 1-Amino-4-anilino —.	Ethanol	5115
—, 1-Amino-2-methyl —.	Ethanol	5115
—, 1-Amino-N-methyl —.	Ethanol	5115
—, 1-Amino-4-p-toluidino —.	Ethanol	5115
—, 1,4-Diamino —.	Ethanol	5115
—, 1,5-Diamino —.	Ethanol	5115
—, 1,8-Diamino —.	Ethanol	5115
—, Dihydroxy —.	Benzene	5912
—, 1,2-Dihydroxy —.	Ethyl Acetate	5396
	Carbon Tetrachloride	4104
	Chloroform	4341
	Ethanol	5115
	Formic Acid	4450
	Pyridine	5606
	Water	1640
—, 1,4-Dihydroxy —.	Water	1
—, 1,6-Dihydroxy —.	Water	1
—, 2,6-Dihydroxy —.	Water	1
—, 1,4-Di-p-toluidino —.	Ethanol	5115
—, 1,4-Di-p-toluidino-2-methyl —.	Ethanol	5115
—, 1-Hydroxy —.	Water	1
—, 2-Hydroxy —.	Water	1
—, 1,4,5,8-Tetra-amino —.	Ethanol	5115
—, 1,2,4-Trihydroxy —.	Ethanol	5115
ANTHRAQUINONE-1,5-DISULFONIC ACID $C_{14}H_6O_8S_2$	Water	1641
ANTHRAQUINONE-1,6-DISULFONIC ACID	Water	1641
ANTHRAQUINONE-1,8-DISULFONIC ACID	Water	1641
ANTHRAQUINONE-1-SULFONIC ACID $C_{14}H_6O_5S$		
—, 5-Chloro —.	Water	1639
—, 6-Chloro —.	Water	1639
—, 7-Chloro —.	Water	1639
ANTIMONY Sb	Antimony Chloride	1987
—, Diethylthioithionocarbamate $Sb(C_2H_5NS_2)_3$...	Antimony Iodide	1988
—, Nitroso- β -phenylhydroxylamine $Sb(C_6H_5N_2O_2)_3$	Various Solvents	3729
—, Pentachloride $SbCl_5$	Water	1
—, Tribromide $SbBr_3$	Selenium Oxychloride	3677
	Acetic Acid	3678
	Acetophenone	3705
	Amylbenzene	3720
	Benzaldehyde	3695
	Benzene	3688
	Benzenesulfonic Acid	3690
	Benzoic Acid	3696
	Benzonitrile	3694
	Benzophenone	3722
	Benzoyl Chloride	3693
	Biphenyl	3721
	Bromobenzene	3684
	1-Bromonaphthalene	3716
	Chlorobenzene	3683
	1-Chloronaphthalene	3714
	2-Chloronaphthalene	3715
	o-, m- & p- Chloro- toluene	3697-3699
	Cyclohexane	3692
	p-Cymene	3719
	p-Dibromobenzene	3680
	p-Dichlorobenzene	3679

ANTIMONY Sb

—, Tribromide $SbBr_3$

1,2-Dimethylbenzene	3707
1,3-Dimethylbenzene	3706
1,4-Dimethylbenzene	3708
m-Dinitrobenzene	3681
Diphenylmethane	3723
Ethoxybenzene	3710
Ethylbenzene	3709
Fluorobenzene	3682
Iodobenzene	3685
Mesitylene	3712
Methoxybenzene	3704
Naphthalene	3718
Nitrobenzene	3686
Nitronaphthalene	3717
m-Nitrophenol	3687
o-, m- & p- Nitro- toluene	3700-3702

—, Trichloride $SbCl_3$

Phenol	3689
Propylbenzene	3711
Pseudocumene	3713
Tetrahydrobenzene	3691
Toluene	3703
Triphenylmethane	3724
Acetic Acid	3628
Acetone	3629
Acetophenone	3657
Aniline	3642
Benzaldehyde	3647
Benzene	3639
Benzene sulfonic Acid	3641
Benzoic Acid	3648
Benzonitrile	3646
Benzophenone	3674
Benzoyl Chloride	3645
Biphenyl	3673
Bromobenzene	3636
1-Bromonaphthalene	3668
Chlorobenzene	3635
1-Chloronaphthalene	3666
2-Chloronaphthalene	3667
o-, m- & p- Chloro- toluene	3649-3651
Cyclohexane	3644
p-Cymene	3671
p-Dibromobenzene	3632
p-Dichlorobenzene	3631
1,2-Dimethylbenzene	3659
1,3-Dimethylbenzene	3658
1,4-Dimethylbenzene	3660
m-Dinitrobenzene	3633
Diphenylmethane	3675
Ethoxybenzene	3662
Ethyl Acetate	3630
Ethylbenzene	3661
Fluorobenzene	3634
Iodobenzene	3637
Isopentylbenzene	3672
Mesitylene	3663
Methoxybenzene	3656

ANTIMONY Sb

—, Trichloride $SbCl_3$

—, Trifluoride SbF_3

—, Triiodide SbI_3

—, Trisulfide Sb_2S_3

ANTIPYRINE $C_{11}H_{12}N_2O$

ANTIPYRINE

—, N,N-Dimethylamino —

APOMORPHINE $C_{17}H_{17}NO_2$

—, Hydrochloride

ARACHIDIC ACID $C_{20}H_{40}O_2$

—, Phenacyl ester

— —, p-bromo —

— —, p-chloro —

ARBUTIN $C_{12}H_{16}O_7$

ARGON Ar

Naphthalene	3670
Nitrobenzene	3638
2-Nitronaphthalene	3669
o-, m- & p- Nitro- toluene	3652-3654
Phenol	3640
Propylbenzene	3665
Pseudocumene	3664
Tetrachloroethane	3627
Tetrahydrobenzene	3643
Toluene	3655
Triphenylmethane	3676
Water	1,969
Acetone	3618
Benzene	3624
2-Butanone	3620
Butoxybutane	3626
Chlorobenzene	3622
Dioxane	3621
Heptane	3625
Hydrogen Fluoride	3616
Methanol	3617
Nitrobenzene	3623
1-Propanol	3619
Uranium Hexafluoride	6579
Water	968
Diiodomethane	3725
Naphthalene	3728
Nitrobenzene	3726
Nitrotoluene	3727
Water	1
Benzene	5886
Benzine	6326
Carbon Tetrachloride	4094
Chloroform	4324
p-Cymene	6296
Dichloroethane	4753
Ethanol	4965-4968
Ethyl Ether	5487
Glycerol	5308
Phenyl o-Hydroxybenzoate	6325
Pyridine	5594
Quinoline	6244
Water	1, 1613, 1614
Glycerol	5309
o-Hydroxybenzoic Acid	6105
Water	1636-1638
Olive Oil	6439
Water	1
Ethanol	5017, 5018
Various Solvents	6431
Water	1
Ethanol	5091
Ethanol	5090
Ethanol	5089
Trichloroethylene	4662
Acetone	1879

ARGON Ar

Benzene	1880,1881
Carbon Disulfide	1875
Carbon Tetrachloride	1876
Cyclohexane	1882,1883
Cyclohexanol	1884
Decane	1897
Dimethylbenzene	1890
2,3-Dimethylhexane	1893
2,4-Dimethylhexane	1894
Dodecane	1898
Ethanol	1878
Heptane	1889
Hexane	1885
Methanol	1877
Methylcyclohexane	1888,6565
3-Methylheptane	1892
Nonane	1896
Octane	1891
Paraffin	1900
Perfluoromethylcyclohexane	1886,6564
Tetradecane	1899
Toluene	1887
2,2,4-Trimethylpentane	1895
Various Solvents	1901
Water	32,33

ARSENIC

—, Diethylthiothionocarbamate	$As(C_2H_5NS_2)_3$
—, Dimethyl —. See Cacadylic Acid	
—, Ethyl Xanthate	$As(C_2H_5 OCS_2)_2$
—, Pentasulfide	As_2S_5
—, Pentoxide	As_2O_5
—, Tribromide	$AsBr_3$
—, Trichloride	$AsCl_3$
—, Triiodide	AsI_3
—, Trioxide	As_2O_3
—, Trisulfide	As_2S_3
ASPARAGINE	$C_4H_8N_2O_3$
1-ASPARAGINE	.....
β -1-ASPARAGINE	.....
ASPARTIC ACID	$C_4H_7NO_4$

Various Solvents	3615
Water	214
Water	1
Formic Acid	3606
Water	967
Azobenzene	3610
Boron Bromide	325 9
Aniline	3607
Stilbene	3609
1,3,4-Xylidine	3608
Carbon Disulfide	3611
Diiodomethane	3612
Naphthalene	3613
Phenanthrene	3614
Water	1
Carbon Disulfide	3600
Ethanol	3602
Ethyl Ether	3604
Ethyl Malonate	3605
Formic Acid	3601
Glycerol	3603
Water	1,965,966
Water	1
Ethanol	4855
Pyridine	5412
Quinoline	5413
Trichloroethylene	4656
Water	1,1212
Water	1213
Water	1211
Water	1189

β -1- ASPARTIC ACID	Water	1188
ASPIRIN	Benzene	5868
	Carbon Tetrachloride	4086
	Ethanol	4946
	Glycerol	5305
	Water	1
ATOPHAN C ₁₆ H ₁₂ NO ₂	Various Solvents	64 17
ATROPINE C ₁₇ H ₂₃ NO ₃	Olive Oil	6449
	Various Solvents	6450-6453
—, Bromide		
— —, N-methyl—	Water	1
—, Hydrobromide	Various Solvents	6454
—, Methylbromide	Ethanol	5030
—, Sulfate	Various Solvents	6513,6514
AURIN C ₁₉ H ₁₄ O ₃	Pyridine	5626
	Water	1
AZELAIC ACID see Nonenedioic Acid		
AZO BENZENE C ₁₂ H ₁₀ N ₂	Ethanol	4973
	Pyridine	5599
	Rubber	6348
	Various Alcohols	6347
	Various Solvents	6349-6351
	Water	1
AZO BENZENE		
—, Amino —	Water	1
—, 4,4 - Diethoxy —	Acetic Acid	4796
—, 4-Dimethylamino —	Ethyl Ether	5496
	Pyridine	5611
	Water	1
—, Ethylsulfonic Acid	Water	1555
—, 4-Hydroxy —	Benzene	5892
	Water	1
AZOLITMINE C ₇ H ₅ N	Pyridine	5589
	Water	1
BARBITAL C ₈ H ₁₂ N ₂ O ₃	Ethanol	4942
	Ethyl Ether	5469
	Glycerol	5304
	Water	1
BARIUM		
—, Acetate C ₄ H ₆ O ₄ Ba	Acetic Acid	3112
	Ethanol	3113
	Methanol	3111
	Water	802
— —, trifluoro —	Trifluoroacetic Acid	2707
—, Adipate Ba.C ₆ H ₈ O ₄		
— —, β - methyl —	Water	1
—, Allocinnamate Ba(C ₉ H ₇ O ₂) ₂	Acetone	3127
	Methanol	3123,3124
	Water	1
—, Anthracene-1-sulfonate Ba(C ₁₄ H ₉ O ₃ S) ₂	Water	813
—, Anthracene-2-sulfonate	Water	813
—, Anthraquinone-1-sulfonate Ba(C ₁₄ H ₇ O ₃ S) ₂	Water	812
— —, 8-chloro —	Water	812
— —, 5-nitro —	Water	812
— —, 8-nitro —	Water	812
—, Anthraquinone-1,5-disulfonate C ₁₄ H ₆ O ₆ S ₂ Ba ..	Water	812
—, Anthraquinone-1,6-disulfonate	Water	812
—, Anthraquinone-1,7-disulfonate	Water	812
—, Anthraquinone-1,8-disulfonate	Water	812
—, Arsenate Ba ₃ (AsO ₄) ₂	Water	1
—, Azide BaN ₆	Water	776

BARIUM

—, Benzenesulfonate $Ba(C_6H_5 SO_3)_2$	Methanol	3117
— —, bromo	Water	1
— —, 3-chloro —.	Water	1
— —, 4-chloro —.	Water	1
— —, 2,5-diiodo —.	Water	1
— —, 3,4-diiodo —.	Water	1
—, Benzoate $Ba(C_7H_5 O_2)_2$	Methanol	3121
— —, 4-bromo —.	Water	1,809
— —, 4-chloro —.	Acetone	3120
— —, 2-hydroxy —.	Water	1
— —, 4-hydroxy —.	Water	1
— —, 4-methoxy —.	Water	1
— —, 4-nitro —.	Water	1
—, Bromate $Ba(BrO_3)_2$	Water	772
—, Bromide $BaBr_2$	Acetone	3084
	Ammonia	3079
	Ethanol	3082,3083
	Methanol	3080,3081
	3-Methyl- 1-butanol	3085
	Water	765-767
—, Butanoate $Ba(C_4H_7O_2)_2$	Water	805
—, Cacodylate $Ba(C_2H_6O_2As)_2$	Various Alcohols	3114
	Water	803
—, Cadmium Chloride $BaCdCl_4$	Water	789
—, Carbonate $BaCO_3$	Water	775
—, Chaumoograte $Ba(C_{18}H_{16}O_2)_2$	Various Solvents	3133
—, Chlorate $Ba(ClO_3)_2$	Water	770,771
—, Chloride $BaCl_2$	Acetic Acid	3076
	Formic Acid	3074
	Glycerol	3077
	Hydrazine	3072
	Methanol	3075
	Nitrobenzene	3078
	Selenium Oxychloride	3073
	Water	763,764
—, Chlorite $Ba(ClO_2)_2$	Water	769
—, Chromate $BaCrO_4$	Water	1,787
—, Cinnamate $Ba(C_9H_7O_2)_2$	Water	1
—, Citrate $Ba_3(C_6H_5 O_7)_2$	Ethanol	3119
	Water	1
—, Cyanide $Ba(CN)_2$	Water	1
—, Disulfide, di- H. $Ba(SH)_2$	Water	782
—, Dithionate Ba_2S_6	Water	785
—, Dodecanoate $Ba(C_{12}H_{23}O_2)_2$	Various Solvents	3128
—, Ethanesulfonate $RC_2H_4SO_3 Ba$		
— —, α -bromocarboxy —.	Water	1
— —, α -carboxy —.	Water	1
— —, α -chlorocarboxy —.	Water	1
—, Fluometaphosphate $BaPO_3F$	Water	1
—, Fluoride BaF_2	Bromine Trifluoride	2233
	Hydrogen Fluoride	3071
	Water	1,762
—, Formate $C_2H_2O_4 Ba$	Water	793
—, Germanate $GeO_3 Ba$	Water	1
—, Gluconate $Ba(C_6H_{11}O_7)_2$	Water	1
—, Glycerophosphate $BaC_3H_7PO_6$	Water	1,795
—, Glycophosphate $BaC_2H_5 OPO_4$	Water	1
—, Helianthate $BaC_{28}H_{28}N_6O_6S_2$	Water	1

BARIUM

—, Hexa-antipyrine Perchlorate	$Ba(C_{11}H_{12}N_2O)_6(ClO_4)_2$	Water	1
—, Hexacyanoferrate	$Ba_2Fe(CN)_6 \cdot 6H_2O$	Water	1
—, Hexadecanoate	$Ba(C_{16}H_{31}O_2)_2$	Ethanol	3131
		Various Solvents	3132
—, Hexafluosilicate	$BaSiF_6$	Water	788
—, Hydnoate	$Ba(C_{16}H_{27}O_2)_2$	Various Solvents	3130
—, Hydrocinnamate	$Ba(C_9H_9O_2)_2$	Methanol	3125
		Water	1
—, Hydroxide	$Ba(OH)_2$	Water	761
—, Iodate	$Ba(IO_3)_2$	Ethanol	3092
		Water	1,773
—, Iodide	BaI_2	Ammonia	3086
		Ethanol	3089,3090
		Formic Acid	3088
		Pyridine	3091
		Sulfur Dioxide	3087
		Water	768
—, Iodide, Mercury cyanide	$BaI_2 \cdot Hg(CN)_2$	Water	1
—, Isocinnamate	$Ba(C_9H_7O_2)_2$	Acetone	3126
		Methanol	3122
		Water	1
—, β -Isotropate	$Ba(C_9H_9O_2)_2$	Water	1
—, Lactate	$Ba(C_3H_5O_2)_2$	Methanol	3116
—, Malate	$C_4H_4O_3 Ba$	Water	1,798,799
—, Maleate	$C_4H_4O_3 Ba$	Ethanol	3109
—, Malonate	$C_3H_2O_4 Ba$	Water	794
—, methyl —		Water	797
—, Methanedisulfonate	$CH_3O_6S_2 Ba$	Water	1
—, bromocarboxy —		Water	1
—, carboxy —		Water	1
—, chloro —		Water	1
—, chlorocarboxy —		Water	1
—, Molybdate	$BaMoO_4$	Water	1
—, Naphthalene-1-sulfonate	$Ba(C_{10}H_{14}SO_3)_2$		
—, 4-chloro —		Water	810
—, 5-chloro —		Water	1,810
—, Naphthalene-2-sulfonate	$Ba(C_{10}H_{14}SO_3)_2$	Water	1
—, 6-hydroxy —		Water	1
—, 1-Naphthylamine-2,4,7-trisulfonate	$C_{10}H_7NO_9 S_3$	Water	1
—, 2-Naphthylamine-5,7-disulfonate	$C_{10}H_7NO_6 S_2$	Water	811
—, 2-Naphthylamine-6,8-disulfonate		Water	811
—, Nitrate	$Ba(NO_3)_2$	Acetic Acid	3102
		Acetone	3104
		Ammonia	3094-3097
		Ethanol	3103
		Hydrazine	3099
		Hydroxylamine	3098
		Methanol	3100,3101
		2-Propanol	3105
		Tributyl Phosphate	2706
		Water	779,780
—, Nitrite	$Ba(NO_2)_2$	Water	777,778
—, Octadecanoate	$Ba(C_{18}H_{35}O_2)_2$	Various Solvents	3134
—, Oxalate	$C_2O_4 Ba$	Water	791,792
—, Pentanoate	$Ba(C_5H_9O_2)_2$	Water	806
—, 4-methyl —		Water	808
—, Perchlorate	$Ba(ClO_4)_2$	Various Solvents	3093
		Water	774
—, Peroxydisulfate	BaS_2O_8	Water	1

BARIUM

—, Perrhenate $Ba(ReO_4)_2$	Water	1
—, Phenanthrene-2-sulfonate $(C_{14}H_9SO_3)_2Ba$	Water	814
—, Phenanthrene-3-sulfonate	Water	814
—, 10-chloro—	Water	814
—, Phenanthrene-10-sulfonate	Water	814
— Phosphate $BaRPO_4$		
— —, ethyl—	Water	1
— —, isopropyl—	Water	1
— —, methyl—	Water	790
— —, methyl mono—H.	Water	1
— —, 2-methylpropyl—	Water	1
— —, 2-propenyl—	Water	1
— —, propyl	Water	1
—, Phosphonites $(R_2PO_2)_2Ba$		
— —, bis-p-chlorophenyl—	Benzene	5971
	Ethanol	5112
	Water	1678
— —, dibutyl—	Benzene	5971
	Ethanol	5112
	Water	1678
— —, di-n-decyl—	Benzene	5971
	Ethanol	5112
	Water	1678
— —, diphenyl—	Benzene	5971
	Ethanol	5112
	Water	1678
—, Potassium Hexacyanoferrate $K_2BaFe(CN)_6$...	Water	1
—, Propanesulfonate $RC_3H_6SO_3Ba$		
— —, carboxy—	Water	1
—, Propanoate $Ba(C_3H_5O_2)_2$	Methanol	3115
	Water	804
— —, 2,2-dimethyl—	Water	1
—, Selenate $BaSeO_4$	Water	1
—, Succinate $C_4H_4O_4Ba$	Ethanol	3108
	Water	1,796
—, Sulfate $BaSO_4$	Formic Acid	3107
	Sulfuric Acid	3106
	Water	1,783,784
— —, pentyl—	Water	1,807
— —, phenyl—	Ethanol	3118
—, Sulfide BaS	Water	781
—, Sulfite $BaSO_3$	Water	1
—, Tartrate $C_4H_4O_6Ba$	Ethanol	3110
	Water	800,801
—, Tetradecanoate $Ba(C_{14}H_{27}O_2)_2$	Various Solvents	3129
—, Tetrathionate BaS_4O_6	Water	786
—, Thiocyanate $Ba(CNS)_2$	Water	1
—, Thiosulfate BaS_2O_3	Water	1
BENZALDEHYDE C_7H_6O	Glycerol	5292
	Water	1
—, 2-Hydroxy—	Benzene	5811
	Water	1451
—, 2-Hydroxy-5-methyl—	Benzene	5841
	Water	1528
—, 3-Hydroxy—	Benzene	5810
	Water	1450
—, 4-Hydroxy—	Benzene	5812
	Water	1452

BENZALDEHYDE C_7H_6O

—, 4-Hydroxy-3-methyl —
—, 4-Hydroxy-5-methyl —
—, 4-Hydroxy-6-methyl —
—, 4-Methoxy
—, 3,4-Methylenedioxy —
—, 2-Nitro —
— —, o-chloro-p-bromophenylhydrazone
—, 3-Nitro —
—, 4-Nitro —
— —, o, p-dichlorophenylhydrazone

BENZAMIDE C_7H_7NO

1,2-BENZANTHRACENE $C_{18}H_{12}$

BENZENE C_6H_6

Ethanol	4934
Pyridine	5591
Quinoline	6205
Water	1,1537
Benzene	5842
Water	1529
Benzene	5843
Water	1530
Ammonia	3533
Carbon Tetrachloride	4081
Chloroform	4309
Benzene	5796
Water	1435
Ethanol	4987,4988
Benzene	5795
Ethanol	4900
Quinoline	6079
Water	1,1434
Benzene	5797
Water	1,1436
Ethanol	4986
Ammonia	3531
Ethanol	4912,4913
Pyridine	5585
Quinoline	6127
Sulfur Dioxide	3782
Water	1
Water	1688
Acid Dye Bright Green J	5960
Anabasine Hydrochloride	5883
Anabasine Hydroiodide	5884
Aphillidine Chlorohydrate	5924
Aphillidine Iodohydrate	5925
Aphilline Chlorohydrate	5969
Benzoic Acid	5806
Blue Dye K for Silk	
Acetate	5931
Chloroform	4282
Cyanine Dye Green 5G	5961
Diethylene Glycol	5537,5538
1,2-Dimethylbenzene	5857
1,3-Dimethylbenzene	5856
1,4-Dimethylbenzene	5858
Ethanol	4877
Ethylbenzene	5859
Formic Acid	4429
Glycol	5127
Lupinine Hydrochloride	5824
Methanol	4546
β -Naphthalene Picrate	5928
Nitrogen	1802,1804
Phenol	5765
Pyridine	5579
Scarlet Dye J for Silk	
Acetate	5930
Sudan Blue Dye U	5955
Sudan Red Dye 7V	5958
Sudan Yellow Dye U	5934
Water	1,1317,1319
	1320,1688

BENZENE C₆H₆

—, Amino —. see Aniline	
—, Bromo —.	Water 1
—, Butyl —.	Water 1688
—, Chloro —.	Sulfur 2029
	Water 1,1300
—, 1-Chloro-4-bromo —.	p-Dichlorobenzene 5689
—, 1-Chloro-2,4-dinitro —.	Various Solvents 5677
—, 1-Chloronitro —.	Water 1
—, 1-Chloro-2-nitro —.	Aniline 5703
	Carbon Dioxide 4240
—, 1-Chloro-3-nitro —.	Aniline 5702
	Carbon Dioxide 4239
—, 1-Chloro-4-nitro —.	Aniline 5704
	Sulfur Dioxide 3765
	Various Solvents 5705
—, 1-Chloropentamethyl —.	Benzene 5887
—, 1-Chloro-2,4,6-trinitro —.	Various Solvents 5677 ^a
	Water 1288
—, Diamino —. see Phenylenediamine	
—, 1,4-Dibromo —.	Aniline 5697
	Benzene 5695,5696
	Bromobenzene 5693
	Carbon Disulfide 4161
	Carbon Tetrachloride 4059
	p-Chlorobromobenzene 5692
	p-Dichlorobenzene 5690
	Ethanol 4869,4870
	Ethyl Ether 5420
	2-Methyl-1-propanol 5421
	Nitrobenzene 5694
	1-Propanol 5250
	Toluene 5698
	Various Solvents 5700
—, Dichloro —.	Water 1,1293
—, 1,2-Dichloro —.	Carbon Dioxide 4240
	Water 1
—, 1,2-Dichloro-4,5-dimethyl —.	Benzene 5838
—, 1,2-Dichlorotetramethyl —.	Benzene 5881
—, 1,3-Dichloro —.	Carbon Dioxide 4239
—, 1,4-Dichloro —.	Carbon Dioxide 4238
—, Dimethyl —.	Water 1547,1548,1550
—, 1,2-Dimethyl —.	Toluene 6136
—, 1,3-Dimethyl —.	Toluene 6135
	Water 1
—, 1,4-Dimethyl —.	Toluene 6137
	Water 1
—, Dinitro —.	Ammonia 3520
	Formic Acid 4426
—, 1,2-Dinitro —.	Various Solvents 5710
	Water 1
—, 1,3-Dinitro —.	Alcohols 5709
	Benzene 5707
	Bromobenzene 5706
	Chloroform 4281
	Ethyl Acetate 5379
	Organic Acids 5708
	Pyridine 5578
	Sulfur Dioxide 3766
	Various Solvents 5710,5711
	Water 1

BENZENE C₆H₆

—, 1,4-Dinitro —	Various Solvents	5710
	Water	1
—, 2,4-Dinitro-1-ethoxy —	Various Solvents	6207
—, 2,4-Dinitro-1-methoxy —	Various Solvents	6119
—, Dinitro-1-methyl —	Sulfur Dioxide	3781
—, 2,4-Dinitro-1-methyl —	Various Solvents	6118
—, Ethyl —	Water	1,1688
—, Fluoro —	Water	1
—, Hexabromo —	Ethanol	4865
	Methanol	4543
—, Hexachloro —	Benzene	5671
	p-Cymene	5672
—, Hexahydro —	Furfural	5553
	Methanol	4551
	Propanenitrile	5149
	Sulfur Dioxide	3778
	Water	1380
	Benzene	5893
—, Hexamethyl —	Water	1
—, Hydroxy —. see Phenol	Water	1583
—, Iodo —	Benzyl Chloride	6120
—, Isopropyl —	Glycerol	5296
—, Methoxy —	Ethanol	4917
	Ethylbenzene	6138
—, Methyl —	Sulfur	2043
	Water	1, 1469, 1470, 1688
—, Nitro —	Ammonia	3522
	Heavy Water	5737
	Sulfur Dioxide	3769
	Water	1308-1310
—, 4-Nitro-1-ethoxy —	Diphenylamine	6209
—, 2-Nitro-1-methoxy —	Water	1
—, 4-Nitro-1-methoxy —	Water	1
—, Nitromethyl —	Water	1462
—, 2-Nitro-1-methyl —	Water	1
—, 3-Nitro-1-methyl —	Water	1
—, 4-Nitro-1-methyl —	Perfluorobutoxybutane	6128
	Perfluorotripropylamine	6129
—, Pentabromomethyl —	Ethanol	4899
	Methanol	4562
—, Pentachloro —	Benzene	5675
—, Pentachloroethyl —	Benzene	5828
—, Pentachloromethyl —	Benzene	5790
—, Propyl —	Water	1,1688
—, Tetrachloro-1,2-dimethyl —	Benzene	5830
—, Tribromo —	Water	1
—, 1,2,4-Tribromo —	Pyridine	5577
—, 1,2,3-Trichloro-5,6-dimethyl —	Benzene	5834
—, 1,2,4-Trichlorotrimethyl —	Benzene	5869
—, 1,3,5-Trichlorotrimethyl —	Benzene	5870
—, 2,4,6-Trichlorotrinitro —	Hexamethylbenzene	5674
	Naphthalene	5673
—, 1,3,5-Trimethyl —	Water	1
—, hypophosphite, di-H.	Water	6555
—, 1,2,4-Trinitro —	Benzene	5687
	Carbon Disulfide	4160
	Chloroform	4280
	Ethanol	4868

BENZENE C₆H₆	
—, 1,2,4-Trinitro —.	Ethyl Ether 5419
—, 1,3,5-Trinitro —.	Methanol 4545
—, Trinitrodimethyl —.	2,4-Dinitrotoluene 5678
—, Trinitro-1,3-dimethyl —.	Various Solvents 5679,5680
—, 2,4,6-Trinitro-1-ethoxy —.	Formic Acid 4438
—, 2,4,6-Trinitro-1-methoxy —.	Glycol Diacetate 6023
—, 2,4,6-Trinitro-1-methyl —.	Various Solvents 6199
	Various Solvents 6200
	Various Solvents 6087
	Acetone 5181
	Aniline 6001
	Benzene 5805
	Carbon Disulfide 4162
	Carbon Tetrachloride 4073
	Chloroform 4299
	2,4-Dinitrotoluene 6085
	Ethanol 4902,4903
	Ethyl Ether 5451
	Pyridine 5584
	Toluene 6086
	Water 1,1445
BENZENEDIAMINE see Phenylenediamine	
BENZENEDIAZONIUM	
—, Hexafluorophosphate C ₆ H ₅ N ₂ PF ₆	Water 1
BENZENEDICARBONAL see Phthalaldehyde	
BENZENEDICARBOXYLIC ACID see Phthalic Acid	
1,2-BENZENEDIOL C₆H₆O₂	
	Acetone 5170
	Benzene 5767
	Carbon Tetrachloride 4063
	Chloroform 4284
	Ethanol 4882
	Ethyl Ether 5427
	Water 1,1332
1,2-BENZENEDIOL	
—, Arsenate	Ethanol 5025
1,3-BENZENEDIOL C₆H₆O₂	Acetic Acid 4781
	Acetone 5171
	Benzene 5768,5769
	1-Bromonaphthalene 5982
	Carbon Tetrachloride 4061
	Chloroform 4283
	Ethanol 4883-4885
	Ethyl Carbamate 5238
	Nitrobenzene 5741
	Various Acids 5983
	Various Alcohols 5984
	Water 1,1333-1335
1,3-BENZENEDIOL	
—, 2,4,6-Trinitro —.	Glycol Diacetate 5686
1,4-BENZENEDIOL C₆H₆O₂	Acetone 5169
	Benzene 5766
	1,3-Benzenediol 5981
	Carbon Tetrachloride 4062
	Ethanol 4881
	Ethyl Ether 5426
	Formic Acid 4430
	Heavy Water 5980
	Sulfur Dioxide 3773
	Water 1331

1,4-BENZENEDIOL		
—, 2,5-Dimethyl—	Ethanol	4933
BENZENESULFONAMIDE $C_6H_7NO_2S$		
—, 4-Amino—	Water	1373
— —, N ¹ -acetyl—	Water	1556
— —, N ⁴ -acetyl—	Water	1557
— —, N-2-pyridyl—	Water	1611
— — — N ¹ -acetyl—	Water	1635
BENZENESULFONIC ACID $C_6H_6SO_3$	Water	1337
—, Ethyl ester	Water	1
—, Amino— see Anilinesulfonic Acids		
—, 4-Bromo—	Water	1307
—, 4-Chloro—	Water	1306
—, 4-Fluoro—	Water	1305
—, 2-Methyl—	Water	1481
—, 4-Methyl—	Water	1482
—, 4-Nitro—	Water	1316
1,2,3-BENZENETRIOL $C_6H_6O_3$	Ethanol	4886
	Ethyl Ether	5431
	Water	1
1,3,5-BENZENETRIOL $C_6H_6O_3$	Cymene	5995
	Pyridine	5580
	Water	1
BENZIDINE $C_{12}H_{12}N_2$	Ethanol	4975
	Quinoline	6246
BENZIDINE		
—, Benzenesulfonate	Water	1366
— —, m-nitro—	Water	1362
—, Hellanthate	Water	1
—, Sulfone	Water	1617
BENZOIC ACID $C_7H_6O_2$	Acetone	5182
	Acetophenone	6093
	Ammonia	3530
	Benzene	5807-5809
	Benzine	6096
	Carbon Tetrachloride	4075,4076
	Chlorobenzene	5722
	Chloroform	4301,4302
	o-Chlorotoluene	6088
	p-Chlorotoluene	6089
	p-Cymene	6094
	Ethanol	4906,4907
	Ethyl Acetate	5385
	Ethyl Ether	5453,5454
	Furancarboxylic Acid	5570
	Glycerol	5293
	Methanol	4563
	Nitrobenzene	5745
	Oils	6097
	Phenol	5975
	1-Propanol	5261
	Pyrazinecarboxylic Acid	5574
	2-Pyridinecarboxylic Acid	5748
	3-Pyridinecarboxylic Acid	5746
	4-Pyridinecarboxylic Acid	5747
	2-Pyrrolecarboxylic Acid	5644
	5-Thiazolecarboxylic Acid	5328

BENZOIC ACID C₇H₆O₂

BENZOIC ACID

—, Ethyl ester

—, β-Naphthyl ester

—, 2-Acetoxy —.

—, 2-Amino —.

—, 3-Amino —.

—, 4-Amino —.

—, 2-Bromo —.

—, 3-Bromo —.

—, 3-Bromo-2-nitro —.

—, 4-Bromo-6-nitro —.

—, 4-Bromo —.

—, 2-Chloro —.

—, 3-Chloro —.

—, 3-Chloro-2-nitro

— 3-Chloro-6-nitro

†-Chloro —.....

3-Thiophenecarboxylic

Acid 5567,5568

Toluene 6090-6092

Various Solvents 6095,6098-6100

Water 1,1447-1449

Tin Tetrachloride 3421

Water 1

Formic Acid 4454

Benzene 5868

Carbon Tetrachloride 4086

Ethanol 4946

Glycerol 5305

Water 1

Benzene 5822

1-Butanol 5462

Chloroform 4305

Cymene 6130

Ethanol 4915

Ethyl Acetate 5387

Methanol 4568

Pyridine 5586

Water 1465,1466,1468

Benzene 5821

1-Butanol 5461

Chloroform 4304

Ethanol 4914

Ethyl Acetate 5386

Methanol 4567

Various Solvents 6131

Water 1463,1464

Benzene 5823

1-Butanol 5463

Chloroform 4306

Ethanol 4916

Ethyl Acetate 5388

Methanol 4569

Various Solvents 6132

Water 1467

Water 1

Water 1

Water 1

Water 1

5-Bromo-2-Thiophene-

carboxylic Acid 5550

Water 1,1433

Benzene 5793

m-Chlorobenzoic Acid 6068

p-Chlorobenzoic Acid 6069

Heptane 6071

Various Solvents 6075,6076

Water 1,1431

Benzene 5792

p-Chlorobenzoic Acid 6067

Heptane 6070

Various Solvents 6073,6074

Water 1,1430

Water 1

Water 1

Benzene 5794

BENZOIC ACID $C_7H_6O_2$

—, 4-Chloro —	Heptane	6072
	Various Solvents	6077
	Water	1,1432
—, Diodo-2-hydroxy —	Water	1
—, 3,5-Dinitro —	Benzene	5791
	Water	1,1428
—, 2-Fluoro —	Water	1
—, 3-Fluoro —	Water	1
—, 4-Fluoro —	Water	1
—, Formyl — see Phthalaldehydic Acid		
—, Hexahydro —	Water	1
—, 2-Hydroxy —	Benzene	5815-5818
	Benzine	6107
	1-Butanol	5457
	Carbon Tetrachloride	4077
	Chloroform	4303
	Cymene	6104
	Dichloroethylene	4694
	Ethanol	4909
	Glycerol	5294
	Heptane	6102
	Methanol	4565
	Trichloroethylene	4660
	Various Alcohols	6106
	Various Oils	6108
	Various Solvents	6109-6111
— —, methyl ester	Water	1
— —, phenyl ester	Benzene	5905
	Benzine	6373
	Camphor	6311
	Carbon Tetrachloride	4101
	Ethyl Carbamate	5242
	Pyridine	5604
	Thymol	6301
	Various Solvents	6372
—, 2-Hydroxy-3-methyl —	Benzene	5844
	Heptane	6174
	Water	1533
— 2-Hydroxy-4-methyl —	Benzene	5845
	Heptane	6175
	Water	1534
—, 2-Hydroxy-5-methyl —	Benzene	5846
—, 3-Hydroxy —	Acetone	5183
	Benzene	5813,5814
	1-Butanol	5455
	Ethanol	4908
	Ethyl Ether	5456
	Formic Acid	4434
	Heptane	6101
	Methanol	4564
	Water	1460
—, 3-Hydroxy-4-methyl —	Benzene	5847
	Heptane	6177
	Water	1536
—, 4-Hydroxy —	Acetone	5184
	Benzene	5819,5820
	1-Butanol	5458
	Ethanol	4910
	Ethyl Ether	5459
	Heptane	6103

BENZOIC ACID $C_7H_6O_2$

—, 4-Hydroxy —	Methanol	4566
	Water	1,1461
—, 4-Hydroxy-3-methyl —	Benzene	5848
	Heptane	6178
	Water	1537
—, 6-Hydroxy-3-methyl —	Water	1535
—, 2-Iodo —	Water	1
—, 3-Iodo —	Water	1
—, 4-Iodo —	Water	1,1429
—, 4-Isopropyl —	Water	1
—, 4-Methoxy —	Ethanol	4936
	Methanol	4573
	1-Propanol	5265
	Water	1,1532
—, Methyl —	Various Solvents	6203,6204
—, 2-Methyl —	Chlorobenzene	5724
	o-Chlorotoluene	6122
	p-Chlorotoluene	6125
	Dimethylbenzene	6201
	Formic Acid	4439
	3-Methyl-2-thiophene- carboxylic Acid	5985
	Water	1,1526
—, 3-Methyl —	Chlorobenzene	5723
	o-Chlorotoluene	6121
	p-Chlorotoluene	6124
	Dimethylbenzene	6201
	Water	1,1525
—, 4-Methyl —	5-Bromo-2-thiophene- carboxylic Acid	5551
	Chlorobenzene	5725
	o-Chlorotoluene	6123
	p-Chlorotoluene	6126
	Dimethylbenzene	6201
	5-Methyl-2-thiophene- carboxylic Acid	5986
	Water	1,1527
—, Nitro —	Water	1437
—, 2-Nitro —	Acetone	5180
	Ammonia	3529
	Benzene	5799,5801,5802
	Carbon Tetrachloride	4071
	Chloroform	4298
	Ethyl Ether	5449
	Various Solvents	6082
—, 2-Nitro-3-methyl —	Benzene	5836
	Water	1521
—, 3-Nitro —	Acetone	5179
	Benzene	5798
	Carbon Tetrachloride	4070
	Chloroform	4297
	Ethyl Ether	5448
	Various Alcohols	6081
	Various Solvents	6084
	Water	1443
—, 3-Nitro-2-amino —	Ethyl Ether	5460
—, 3-Nitro-4-amino —	Ethyl Ether	5460
—, 4-Nitro —	Acetone	6080
	Benzene	5800,5803,5804

BENZOIC ACID $C_7H_6O_2$	
—, 4-Nitro—	Carbon Tetrachloride 4072
	Ethyl Ether 5450
	Various Alcohols 6083
	Water 1443
—, 5-Nitro-2-amino—	Ethyl Ether 5460
—, 5-Nitro-2-hydroxy—	Water 1444
—, 6-Nitro-3-methyl—	Benzene 5837
	Toluene 6133
	Water 1522
—, Trifluoromethyl—	Water 1
—, 2,3,4-Trihydroxy—	Various Solvents 6112
—, 2,4,6-Trinitro—	Various Solvents 6066
BENZOIN $C_{14}H_{12}O_2$	Carbon Tetrachloride 4110
	Chloroform 4347
	Formic Acid 4432
	Pyridine 5610
	Water 1
BENZOPHENONE $C_{13}H_{10}O$	Benzene 5904
	Ethanol 4990
	Various Solvents 6371
BENZOPHENONE	
—, 4,4'-Bisdimethylamino—	Ethanol 5020
	Pyridine 5617
	Quinoline 6251
	Water 1
—, Diaminotetramethyl—	
BENZOQUINONE see Quinone	
BENZOTHIAMETHYLDIAZINE $C_9H_{10}N_2O_2S$	
—, N ⁴ -Acetyl—	Water 1601
BENZOTHAZOLE C_7H_5NS	
—, 2-Heptadecyl—	Acetone 5220
	Acetonitrile 4727
	Benzene 5959
	Carbon Tetrachloride 4138
	Chloroform 4392
	Ethanol 5080
	Ethyl Acetate 5410
	Hexane 6053
	Methanol 4612
	2-Propanol 5281
	Acetone 5208
	Acetonitrile 4723
	Benzene 5936
	Carbon Tetrachloride 4119
	Chloroform 4362
	Ethanol 5031
	Ethyl Acetate 5399
	Hexane 6048
	Methanol 4601
	2-Propanol 5277
	Water 1
—, 2-Undecyl—	
BENZYL ALCOHOL C_7H_8O	
BENZYL CHLORIDE C_7H_7Cl	
—, 2-Nitro—	Various Solvents 6115
—, 3-Nitro—	Various Solvents 6114
—, 4-Nitro—	Various Solvents 6116,6117
BENZYLETHYLAMINE $C_9H_{13}N$	Glycerol 5306
BENZYL SULFIDE $C_{14}H_{14}S$	Carbon Tetrachloride 4111
	Chloroform 4348,4349
BERYLLIUM Be	
—, Acetate $BeO_4(C_2H_3O_2)_6$	Chloroform 2811

BERYLLIUM Be	
—, Ammonium Phosphate NH_4BePO_4	Water 1
—, Benzene-sulfonate $\text{Be}(\text{C}_6\text{H}_5\text{SO}_3)_2$	Water 1
—, Benzoate $\text{Be}(\text{C}_7\text{H}_5\text{O}_2)_2$	
— —, 2-hydroxy —	Water 582
—, Bromide BeBr_2	Pyridine 2809
—, Chloride BeCl_2	Sulfur Dioxide 2807
	Various Solvents 2808
—, Dodecanoate $\text{Be}(\text{C}_{11}\text{H}_{23}\text{O}_2)_2$	Ethanol 2813
	Methanol 2812
—, Fluoride BeF_2	Hydrogen Fluoride 2806
—, Hexadecanoate $\text{Be}(\text{C}_{16}\text{H}_{31}\text{O}_2)_2$	Ethanol 2817
	Methanol 2816
—, Metavanadate $\text{Be}(\text{VO}_3)_2$	Water 1
—, Nitrate $\text{Be}(\text{NO}_3)_2$	Ethyl Ether 2810
	Water 580
—, Octadecanoate $\text{Be}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$	Methanol 2818
—, Oxalate BeC_2O_4	Water 1
—, Oxide BeO	Water 1
—, Perchlorate $\text{Be}(\text{ClO}_4)_2$	Water 1
—, Salicylate $\text{Be}(\text{C}_7\text{H}_5\text{O}_3)_2$	Water 582
—, Sulfate BeSO_4	Water 581
—, Tetradecanoate $\text{Be}(\text{C}_{14}\text{H}_{27}\text{O}_2)_2$	Ethanol 2815
	Methanol 2814
—, Toluene-sulfonate $\text{Be}(\text{C}_7\text{H}_7\text{SO}_3)_2$	Water 1
BETAINE $\text{C}_5\text{H}_{11}\text{NO}_2$	Ethanol 4864
	Methanol 4542
	Water 1270
BETAINE	
—, Hydrobromide	Water 1282
—, Hydrochloride	Water 1281
—, Hydroiodide	Water 1283
—, Permanganate	Water 1285
—, Phosphate	Water 1287
—, Sulfate	Water 1284
—, Tetrachloroaurate, mono-H.	Water 1286
BIBENZYL see Ethane, 1,2-diphenyl—.	
BIPHENYL $\text{C}_{12}\text{H}_{10}$	Benzene 5891
	Carbon Disulfide 4167
	Carbon Tetrachloride 4096
	p-Dichlorobenzene 5691
	Dioxane 5392
	Ethanol 4971
	Heptane 8180
	Methanol 4590
	Water 1
BIPHENYL	
—, 2-Hydroxy —	Pyridine 5597
—, 3-Hydroxy —	Pyridine 5596
—, 4-Hydroxy —	Pyridine 5598
BIPHENYL-6-CARBOXYLIC ACID $\text{C}_{13}\text{H}_{10}\text{O}_3$	
—, 2,4-Dinitro-2-methyl —	Water 1643
BISMUTH Bi	Zinc 1953
—, Diethylthiothionocarbamate $(\text{C}_2\text{H}_5\text{NS}_2)_2\text{Bi}$...	Various Solvents 3746
—, Hydroxide BiO_2H	Water 1
—, Lactate $\text{BiC}_6\text{H}_9\text{O}_6$	Water 1
—, Nitrate $\text{Bi}(\text{NO}_3)_3$	Acetone 3745
	Tributyl Phosphate 2706
—, Nitroso- β -phenylhydroxylamine $\text{Bi}(\text{C}_6\text{H}_5\text{N}_2\text{O}_2)_2$	Water 1
—, Oxychloride BiOCl	Formic Acid 3744

BISMUTH Bi
 —, Sulfide Bi_2S_3
 —, Trichloride $BiCl_3$

—, Trifluoride BiF_3
 BORIC ACID H_3BO_3

BORIC ACID
 —, Tetra— $H_2B_4O_7$

BORNEOL $C_{10}H_{18}O$
 BORNYL CHLORIDE $C_{10}H_{16} \cdot HCl$

BORON B
 —, Oxide B_2O_3

—, Tetraboric Acid $H_2B_4O_7$
 —, Trichloride BCl_3

—, Trifluoride BF_3

BROMAL HYDRATE $C_2H_5O_2Br_3$
 BROMINE Br_2

BROMOFORM $CHBr_3$

BRUCINE $C_{23}H_{26}N_2O_4$

Water 1
 Acetone 3741
 Antimony Trichloride 3740
 Ethyl Acetate 3742
 Hydrazine 3739
 Nitrobenzene 3743
 Hydrogen Fluoride 3738
 Ammonia 3235
 Dichloroethylene 3238
 Dioxane 3241
 Glycerol 3239,3240
 Hydrazine 3236
 Pyridine 3242
 Trichloroethylene 3237
 Water 825

Water 1
 Water 1
 Formic Acid 4448

Potassium Oxide 2391
 Propylene Glycol 2390
 Water 824

Water 1
 Chlorine 2073
 Hydrogen Chloride 3255
 Hydrogen Sulfide 3254
 Benzene 3252

Carbon Tetrafluoride 3248
 Chloromethane 3250
 Chlorotrifluoromethane 3249
 Dinitrogen Oxide 3243

Hydrogen Chloride 3247
 Pentane 3251
 Phosphorus Trifluoride 3244

Sulfur Dioxide 3245
 Sulfuric Acid 3246
 Toluene 3253

Water 1
 Water 1125

Carbon Dioxide 2090
 Carbon Disulfide 2091
 Carbon Tetrachloride 2092

Chloroform 2093
 Chlorine 2076
 Hydrogen Bromide 2089

Sulfur Dioxide 2088
 Water 44-46
 Carbon Dioxide 4208

Formic Acid 4406
 Toluene 4407
 Water 1

Aniline 6015
 Benzene 5956,5957
 Carbon Tetrachloride 4135

Chloroform 4390
 Diethylamine 5547
 Ethanol 5073

Ethyl Acetate 5409

BRUCINE $C_{23}H_{26}N_2O_4$	Ethyl Ether	5518
	Glycerol	5318
	Methanol	4611
	Petroleum Ether	6496
	Piperidine	5661
	Pyridine	5633,5634
	Trichloroethylene	4668
	Water	1
BRUCINE		
—, Hellanthate	Water	1
—, Hexabromoiridate	Water	1057
—, Hexachloroiridate	Water	1057
—, Perchlorate	Water	1
—, Sulfate	Various Solvents	6497
—, Tartrate	Water	1660
—, Trichloroacetate	Water	1
BUTANE C_4H_{10}	Ethanol	4857
	Hydrocarbon Blends	5414
	Methanol	4536
	2-Propanol	5247
	Water	1217
BUTANE		
—, 2,2-Bis(ethylsulfonyl)—	Petroleum Ether	6231
	Water	1
—, 1-Bromo —	Water	1
—, 1-Bromo-3-methyl —	Water	1
—, Butoxy —	Water	1
—, 1-Chloro —	Water	1
—, 2,2-Dimethyl —	Furfural	5557
—, 2,3-Dimethyl —	Furfural	5558
—, 1-Iodo —	Water	1
—, 1-Methoxy —	Water	1275
—, 2-Methoxy-2-methyl —	Water	1
—, 2-Methyl —	Phenol	5663
1,4-BUTANEDIAMINE see Putrescine		
BUTANEDINITRILE see Succinonitrile		
BUTANEDIOIC ACID see Succinic Acid		
1,1-BUTANEDIOL $C_4H_{10}O_2$		
—, 2,2,3-Trichloro —	Glycerol	5288
	Water	1
1,4-BUTANEDIOL $C_4H_{10}O_2$	Benzene	5534
	Cyclohexane	5535
	Heptane	5536
2,3-BUTANEDIOL $C_4H_{10}O_2$		
—, 2,3-Dimethyl —	Water	1421
1,3-BUTANEDIONE $C_4H_6O_2$		
—, 1-phenyl —	Sulfur dioxide	3790
1,2,3,4-BUTANETETROL $C_4H_{10}O_4$	Pyridine	5540
	Water	1,1233
BUTANOIC ACID $C_4H_8O_2$	Water	1198,1199
—, Ethyl ester	Water	1
—, 3-methyl —	Water	1
—, Methyl ester	Water	1
—, Pentyl ester	Water	1
—, Propyl ester	Water	1
—, 2-Amino —	Water	1216
—, 2-Amino-N-formyl —	Heptanol	5652
	Methanol	4540
—, 3-Amino —	Water	1216
—, 4-Amino —	Water	1216

BUTANOIC ACID $C_4H_8O_2$		
—, Phospho —.	Water	1
1-BUTANOL $C_4H_{10}O$	Various Solvents	5531
	Water	1218-1221
1-BUTANOL		
—, 3-Dimethyl —.	Water	1415
—, 2-Methyl —.	Water	1274
—, 3-Methyl —.	Glycerol	5290
	Water	1,1273,1274
2-BUTANOL $C_4H_{10}O$	Various Solvents	5532
	Water	1,1226,1227
2-BUTANOL		
—, 2,3-Dimethyl —.	Water	1415
—, 3,3-Dimethyl —.	Water	1415
—, 2-Methyl —.	Water	1274
—, 3-Methyl —.	Water	1274
—, 2,3,3-Trimethyl —.	Water	1513
4-BUTANOL $C_4H_{10}O$		
—, 2-Methyl —.	Water	1274
2-BUTANONE C_4H_8O	Glycerol	5289
	Water	1,1191-1195
2-BUTANONE		
—, 3-Dimethyl —.	Water	1396
—, 3-Methyl —.	Water	1251,1252
1-BUTENE C_4H_8	Benzene Heads	5366
	Cracked Benzine	5367
	Dichloroethane	4750
	Dimethylbenzene	5365
	Heavy Solvent	5369
	Kerosine	5368
	Ethanol	4851
2-BUTENE C_4H_8		
BUTENEDIOIC ACID	see Fumaric Acid and Maleic Acid	
2-BUTENOIC ACID $C_4H_6O_2$	Various Solvents	5350
—, 3-Chloro —.	Various Solvents	5343
BUTYLAMINE $C_4H_{11}N$	Various Solvents	5548
BUTYLAMINE (sec.) $C_4H_{11}N$	Glycol	5125
BUTYRALDEHYDE C_4H_8O	Water	1
CACODYLIC ACID $C_2H_7O_2As$	Water	1
CADMIUM Cd	Cadmium Iodide	1955
—, Acetate $CdC_4H_6O_4$	Ethanol	3069
—, trifluoro —.	Trifluoroacetic Acid	2707
—, Allocinnamate $Cd(C_9H_7O_2)_2$	Water	1
—, Ammonium Bromide NH_4CdBr_3	Ethanol	2747,2748
	Water	1,548
—, 4 Ammonium Bromide $(NH_4)_4CdBr_6$	Water	549
—, Ammonium Chloride NH_4CdCl_3	Water	546
—, 4-Ammonium Chloride $(NH_4)_4CdCl_6$	Water	547
—, Ammonium Iodide NH_4CdI_3	Ethanol	2749
	Ethyl Ether	2751
—, 2-Ammonium Iodide $(NH_4)_2CdI_4$	Ethanol	2750
	Ethyl Ether	2752
—, Anthracenesulfonate $Cd(C_{14}H_9SO_3)_2$	Water	1
—, Anthraquinone-1,5-disulfonate $C_{14}H_6O_3S_2Cd$	Water	1
—, Anthraquinone-1,8-disulfonate	Water	1
—, Azobenzenesulfonate $Cd(C_{12}H_9N_2SO_3)_2$		
—, dimethylamino —.	Water	1
—, Benzenesulfonate $Cd(C_6H_5SO_3)_2$	Water	759
—, Benzozate $(C_7H_5O_2)_2Cd$		
—, 4-chloro —.	Water	1
—, 4-methoxy —.	Water	1

CADMIUM Cd

—, Benzoate $(C_7H_5O_2)_2Cd$	
—, 4-nitro —	.....
—, Bromide $CdBr_2$	.....
—, Cesium Sulfate $Cs_2Cd(SO_4)_2$	.....
—, Chlorate $Cd(ClO_3)_2$	.....
—, Chloride $CdCl_2$	.....
—, Chloride. Pyridine $CdCl_2 \cdot 2C_5H_5N$	.....
—, Chloride-2-thiourea $CdCl_2 \cdot 2CH_4N_2S$	.....
—, Cinnamate $Cd(C_9H_7O_2)_2$	.....
—, Cyanide $Cd(CN)_2$	.....
—, Diethylthiothionocarbamate $Cd(C_5H_{10}NS_2)_2$	....
—, Dithiophosphate $CdR_4O_4P_2S_4$	
—, diethyl —	.....
—, Ethyl Xanthate $Cd(C_2H_5OS_2)_2$	.....
—, Fluoride CdF_2	.....
—, Formate $C_2H_3O_2Cd$	.....
—, Fumarate $C_4H_2O_4Cd$	.....
—, Hydroxide $Cd(OH)_2$	.....
—, Hexa-antipyrine $Cd(C_{11}H_{12}N_2O)_6X_2$	
—, perchlorate	.....
—, tetrafluoroborate	.....
—, Iodide CdI_2	.....
—, Isocinnamate $Cd(C_9H_7O_2)_2$	.....
—, Magnesium Chloride $MgCd_2Cl_6$	.....
—, Maleate $CdC_4H_2O_4$	.....
—, Naphthalene-1-sulfonate $Cd(C_{10}H_7SO_3)_2$	.....
—, Naphthalene-2-sulfonate $Cd(C_{10}H_7SO_3)_2$	.....
—, 6-hydroxy —	.....
—, Nitrate $Cd(NO_3)_2$	.....
—, Nitroso- β -phenylhydroxylamine $Cd(C_6H_5N(NO)O)_2$	
—, Oxalate CdC_2O_4	.....
—, Oxide CdO	.....
—, Pentacyanonitrosocferrate $CdFe(CN)_5NO$	.....

Water	1
Ethanol	3042
Methanol	3041
Various Solvents	3043
Water	750
Water	473
Water	752
Benzonitrile	3039
Ethanol	3036,3037
Methanol	3034,3035
Pyridine	3038
Selenium Oxychloride	3033
Water	749
Various Solvents	3040
Water	1
Water	1
Water	1
Various Solvents	3070
Water	1
Water	214
Hydrogen Fluoride	3032
Water	1
Water	758
Water	1
Water	1
Water	1
Water	1
Acetone	3050
Aniline	3060
Ethanol	3048,3049
Ethyl Acetate	3054
Ethyl Ether	3056,3057
Ethyl Formate	3051
Methanol	3045,3046
Methyl Formate	3047
1-Propanol	3052
2-Propanol	3053
Propyl Formate	3055
Pyridine	3058,3059
Quinoline	3061
Sulfur Dioxide	3044
Various Solvents	3062
Water	751
Water	1
Water	598
Water	1
Water	1
Water	760
Water	1
Ammonia	3065
Tributyl Phosphate	2706
Water	753
Water	1
Water	1
Water	1
Water	1

CADMIUM Cd

—, Perchlorate $Cd(ClO_4)_2$	2-Ethoxyethanol	3063
	Furfural	3064
	Water	1
—, Potassium Bromide $KCdBr_3$	Water	341
—, Potassium Chloride $KCdCl_3$	Water	338
—, 4-Potassium Chloride K_4CdCl_6	Water	337,339,340
—, Potassium Sulfate $K_2Cd(SO_4)_2$	Water	342
—, Rubidium Bromide $RbCdBr_3$	Water	407
—, 4-Rubidium Bromide Rb_4CdBr_6	Water	408
—, Rubidium Chloride $RbCdCl_3$	Water	405
—, 4-Rubidium Chloride Rb_4CdCl_6	Water	406
—, Rubidium Sulfate $Rb_2Cd(SO_4)_2$	Water	413
—, Sodium Bromide $NaCdBr_3$	Ethanol	2353
	Ethyl Ether	2354
	Water	1
—, Sodium Iodide $NaCdI_3$	Water	1
—, 2-Sodium Iodide Na_2CdI_4	Ethanol	2355
	Ethyl Ether	2356
—, Sodium Sulfate $Na_2Cd(SO_4)_2$	Water	189
—, Sulfate $CdSO_4$	Ethanol	3068
	Formic Acid	3066
	Methanol	3067
	Water	754-757
—, Sulfide CdS	Water	1
—, Thiocyanate $Cd(CNS)_2$	Water	1
CAFFEINE $C_8H_{10}N_4O_2$	p-Cymene	6226
	Various Solvents	6227
	Water	1,1558-1561

CALCIUM Ca

—, Acetate $CaC_4H_6O_4$	Acetic Acid	2950
	Methanol	2949
	Water	664
—, trifluoro —	Trifluoroacetic Acid	2707
—, Adipate $CaC_6H_8O_4$		
—, β -methyl —	Water	1
—, Allocinnamate $Ca(C_9H_7O_2)_2$	Acetone	2957
	Water	1
—, Ammonium Arsenate NH_4CaAsO_4	Water	1
—, Ammonium Hexacyanoferrate $(NH_4)_2CaFe(CN)_6$	Water	1
—, Anthracene-1-sulfonate $Ca(C_{14}H_9O_3S)_2$	Water	1
—, Anthracene-2-sulfonate	Water	1
—, Anthraquinone-1-sulfonate $Ca(C_{14}H_7O_3S)_2$	Water	1
—, 5-chloro —	Water	1
—, 6-chloro —	Water	1
—, 7-chloro —	Water	1
—, 8-chloro —	Water	1
—, Anthraquinone-1,5-disulfonate $CaC_{14}H_6O_5S_2$	Water	1
—, Anthraquinone-1,6-disulfonate	Water	1
—, Anthraquinone-1,7-disulfonate	Water	1
—, Anthraquinone-1,8-disulfonate	Water	1
—, Arsenate $Ca_3(AsO_4)_2$	Water	1
—, Arsenate, mono H. $CaHAsO_4$	Water	1
—, Azide CaN_6	Water	1
—, Benzenesulfonate $Ca(C_6H_5O_3S)_2$	Water	676
—, 3-chloro —	Water	675
—, 4-chloro —	Water	675
—, 1,2-dimethyl —	Water	1
—, 1,3-dimethyl —	Water	1
—, 1,4-dimethyl —	Water	1

CALCIUM

—, Benzoate $\text{Ca}(\text{C}_7\text{H}_5\text{O}_2)_2$	Methanol	2955
— —, 4-bromo —.	Water	1,683
— —, 4-chloro —.	Water	1
— —, 2-hydroxy —.	Water	1
— —, 4-hydroxy —.	Water	1
— —, 4-methoxy —.	Water	1
— —, 4-nitro —.	Water	1
—, Borate CaB_2O_4	Water	631
—, Bromide CaBr_2	Acetone	2913
	Ammonia	2910
	Benzyl Alcohol	2920
	1-Butanol	2915
	Ethanol	2912
	4-Hydroxy-4-methyl- 2-pentanone	2919
	Methanol	2911
	3-Methyl-1-butanol	2917
	4-Methyl-2-pentanone	2918
	1-Pentanol	2916
	1-Propanol	2914
	Water	627
	Ethanol	2944
	Water	1
	Water	667
	Water	680
	Water	673
	Water	674
—, Bromide. Mercury Cyanide $\text{CaBr}_2 \cdot 2\text{Hg}(\text{CN})_2$	Alcohols	2951
—, Butanoate $\text{Ca}(\text{C}_4\text{H}_7\text{O}_2)_2$	Water	665
— —, 2-ethyl —.	Various Solvents	2959
— —, 2-methyl —.	Water	1,632
— —, 3-methyl —.	Water	1,629
—, Cacodylate $\text{Ca}(\text{C}_2\text{H}_5\text{O}_2\text{As})_2$	Acetamide	2901
—, Camphorcarbonate $\text{Ca}(\text{C}_{11}\text{H}_{15}\text{O}_3)_2$	Acetic Acid	2900
—, Carbonate CaCO_3	Acetone	2903
—, Chlorate $\text{Ca}(\text{ClO}_3)_2$	Benzyl Alcohol	2909
—, Chloride CaCl_2	1-Butanol	2905
	Ethanol	2902
	Formic Acid	2898
	Hydrazine	2896
	Methanol	2899
	3-Methyl-1-butanol	2908
	1-Pentanol	2907
	1-Propanol	2904
	Pyridine	2906
	Selenium Oxychloride	2897
	Water	1,624-626
	Water	645
	Water	1,687
	Ethanol	1,2954
	Water	689
	Water	1
	Water	644
	Water	1
	Water	690
—, Chromate CaCrO_4	Methanol	2945
—, Cinnamate $\text{Ca}(\text{C}_9\text{H}_7\text{O}_2)_2$	Water	649
—, Citrate $\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2$	Bromine Trifluoride	2233
—, Cymenesulphonate $\text{Ca}(\text{C}_{10}\text{H}_{13}\text{SO}_3)_2$		
—, Decanesulphonate $\text{Ca}(\text{C}_{10}\text{H}_{21}\text{SO}_3)_2$		
—, Dithionate CaS_2O_6		
—, Dodecane-sulphonate $\text{Ca}(\text{C}_{12}\text{H}_{25}\text{SO}_3)_2$		
—, Dodecanoate $(\text{C}_{12}\text{H}_{25}\text{O}_2)_2\text{Ca}$		
—, Formate $\text{CaC}_2\text{H}_3\text{O}_4$		
—, Fluoride CaF_2		

CALCIUM

—, Fluoride CaF_2	Hydrogen Fluoride	2894
	Water	1,623
—, Fumarate $\text{CaC}_4\text{H}_2\text{O}_4$	Water	1
—, Fumarate, mono-H.	Water	1
—, Gluconate $\text{Ca}(\text{C}_6\text{H}_{11}\text{O}_7)_2$	Water	682
—, Glutamate $\text{CaC}_5\text{H}_7\text{NO}_5$	Water	670
—, Glycerophosphate $\text{CaC}_3\text{H}_7\text{O}_2\text{PO}_4$	Glycerol	2946
	Water	652-654
—, Helianthate $\text{Ca}(\text{C}_{14}\text{H}_{14}\text{N}_3\text{SO}_3)_2$	Water	1
—, Heptanoate $\text{Ca}(\text{C}_7\text{H}_{13}\text{O}_2)_2$	Water	684
—, Hexanoate $\text{Ca}(\text{C}_6\text{H}_{11}\text{O}_2)_2$	Water	677
—, Hexa.antipyrine $\text{Ca}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O}_6\text{X}_2)$		
— —, perchlorate	Water	1
— —, tetrafluoborate	Water	1
—, Hexacyanoferrate $\text{Ca}_2\text{Fe}(\text{CN})_6$	Water	647
—, Hexadecanesulfonate $\text{Ca}(\text{C}_{16}\text{H}_{33}\text{O}_3\text{S})_2$	Water	1
—, Hexadecanoate $\text{Ca}(\text{C}_{16}\text{H}_{31}\text{O}_2)_2$	Water	1
—, Hexafluosilicate CaSiF_6	Water	1
—, Hydrocinnamate $\text{Ca}(\text{C}_9\text{H}_9\text{O}_2)_2$	Acetone	2958
	Water	1
—, Hydroxide $\text{Ca}(\text{OH})_2$	Water	621,622
—, Iodate $\text{Ca}(\text{IO}_3)_2$	Water	630
—, Iodide CaI_2	Acetone	2924
	Ammonia	2921
	Methanol	2923
	Sulfur Dioxide	2922
	Water	628
—, Isocinnamate $\text{Ca}(\text{C}_9\text{H}_7\text{O}_2)_2$	Acetone	2956
	Water	1
—, Lactate $\text{Ca}(\text{C}_3\text{H}_5\text{O}_3)_2$	Methanol	2952
	Water	1
—, Malate $\text{CaC}_4\text{H}_4\text{O}_5$	Ethanol	2947
	Water	658-660
—, Malate, mono-H. $\text{Ca}(\text{C}_4\text{H}_5\text{O}_5)_2$	Water	666
—, Maleate $\text{CaC}_4\text{H}_2\text{O}_4$	Water	655
—, Maleate, mono-H. $\text{Ca}(\text{C}_4\text{H}_5\text{O}_4)_2$	Water	6548
—, Malonate $\text{CaC}_3\text{H}_2\text{O}_4$	Water	650
— —, methyl-	Water	657
—, Meconate $\text{CaC}_7\text{H}_2\text{O}_7$	Water	1
—, Methanedisulfonate $\text{CaCH}_2(\text{SO}_3)_2$	Water	1
—, Naphthalene-1-sulfonate $\text{Ca}(\text{C}_{10}\text{H}_7\text{SO}_3)_2$		
— —, 4-chloro-	Water	1
— —, 5-chloro-	Water	1
—, Naphthalene-2-sulfonate $\text{Ca}(\text{C}_{10}\text{H}_7\text{SO}_3)_2$	Water	1
—, 2-Naphthylamine-5,7-disulfonate $\text{CaC}_{10}\text{H}_7\text{N}(\text{SO}_3)_2$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, 1-Naphthylamine-2,4,7-trisulfonate $\text{CaC}_{10}\text{H}_7\text{N}(\text{SO}_3)_3$	Water	1
—, Nitrate $\text{Ca}(\text{NO}_3)_2$	Acetic Acid	2932
	Acetone	2935
	Ammonia	2927-2929
	2-Butoxyethanol	2941
	Ethanol	2933,2934
	2-Ethoxyethanol	2939
	Methanol	2930
	2-Methoxyethanol	2938
	Methyl Acetate	2936
	1-Pentanol	2940
	2-Propanol	2937
	Tributyl Phosphate	2706

CALCIUM

—, Nitrate $\text{Ca}(\text{NO}_3)_2$	Urea	2931
	Various Solvents	2942
	Water	635-637
—, Nitrite $\text{Ca}(\text{NO}_2)_2$	Ethanol	2926
	Water	633,634
—, Nonanoate $\text{Ca}(\text{C}_9\text{H}_{17}\text{O}_2)_2$	Water	688
—, Octadecanesulfonate $\text{Ca}(\text{C}_{18}\text{H}_{37}\text{O}_3\text{S})_2$	Water	1
—, Octadecanoate $\text{Ca}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$	Water	1
—, 9-Octadecenoate $\text{Ca}(\text{C}_{18}\text{H}_{33}\text{O}_2)_2$	Various Solvents	2960
	Water	1
—, Octanoate $(\text{C}_8\text{H}_{15}\text{O}_2)_2\text{Ca}$	Water	685
—, Oxalate CaC_2O_4	Water	648
—, Oxide CaO	Calcium Chloride	2893
	Water	620
—, Pentanoate $\text{Ca}(\text{C}_5\text{H}_9\text{O}_2)_2$	Water	671
— —, 2-methyl —.	Water	679
— —, 3-methyl —.	Water	678
— —, 4-methyl —.	Water	681
— —, 4-oxo —.	Water	669
— —, 2-propyl —.	Water	686
—, Perchlorate $\text{Ca}(\text{ClO}_4)_2$	Various Solvents	2925
—, Phenanthrene-1-sulfonate $\text{Ca}(\text{C}_{14}\text{H}_9\text{O}_3\text{S})_2$		
— —, 10-chloro —.	Water	1
—, Phenanthrene-2-sulfonate $\text{Ca}(\text{C}_{14}\text{H}_9\text{O}_3\text{S})_2$	Water	1
—, Phenanthrene-3-sulfonate	Water	1
—, Phenanthrene-10-sulfonate	Water	1
—, Phosphate $\text{Ca}_3(\text{PO}_4)_2$	Water	1
—, Phosphate, mono-H. CaHPO_4	Water	1
—, Phosphate Ca_3RPO_4		
— —, allyl —.	Water	694
— —, ethyl —.	Water	694
— —, isobutyl —.	Water	694
— —, isopropyl —.	Water	694
— —, methyl —.	Water	694
— —, propyl —.	Water	694
—, Phosphonites $(\text{R}_2\text{PO}_2)_2\text{Ca}$		
— —, bis-p-chlorophenyl —.	Benzene	5971
	Ethanol	5112
	Water	1678
— —, dibutyl —.	Benzene	5971
	Ethanol	5112
	Water	1678
— —, di-n-decyl —.	Benzene	5971
	Ethanol	5112
	Water	1678
— —, diphenyl —.	Benzene	5971
	Ethanol	5112
	Water	1678
—, Potassium hexacyanoferrate $\text{K}_2\text{CaFe}(\text{CN})_6$	Water	1
—, Propanoate $\text{Ca}(\text{C}_3\text{H}_7\text{O}_2)_2$	Methanol	2953
	Water	651
— —, 2,2-dimethyl —.	Water	672
— —, 2-methyl —.	Water	668
—, Selenate CaSeO_4	Water	646
—, Succinate $\text{C}_4\text{H}_4\text{O}_4\text{Ca}$	Water	1,656
—, Sulfate CaSO_4	Glycerol	2943
	Water	639-643
—, Sulfite CaSO_3	Water	1,638
—, Tartrate $\text{CaC}_4\text{H}_4\text{O}_6$	Ethanol	2948

CALCIUM

—, Tartrate	$\text{CaC}_4\text{H}_4\text{O}_6$	.....
—, Tetradecanesulfonate	$\text{Ca}(\text{C}_{14}\text{H}_{29}\text{O}_3\text{S})_2$	.....
—, Tungstate	CaWO_4	.....

CAMPHOR	$\text{C}_{10}\text{H}_{16}\text{O}$
---------	--------------------------------------	-------

CAMPHOR

—, Benzoyl	.....
—, Bromo —	.....
—, α -Bromo —	.....
—, Oxime	.....
d-CAMPHOR	$\text{C}_{10}\text{H}_{16}\text{O}$
CAMPHORIC ACID	$\text{C}_{10}\text{H}_{16}\text{O}_4$

CAMPHORIC ANHYDRIDE	$\text{C}_{10}\text{H}_{14}\text{O}_3$
---------------------	----------------------------------------	-------

α CAMPHORCARBONIC ACID	$\text{C}_{11}\text{H}_{16}\text{O}_3$
-------------------------------	----------------------------------------	-------

CAPRIC ACID See Decanoic Acid

CAPROIC ACID see Hexanoic Acid

CARBAMIC ACID

—, Ethyl ester	$\text{C}_3\text{H}_7\text{NO}_2$
----------------	-----------------------------------	-------

— —, N,N-butylhexanoyl —
--------------------------	-------

— —, N-ethyl —
----------------	-------

— —, N,N-ethylbutanoyl —
--------------------------	-------

— —, N,N-ethylpentanoyl —
---------------------------	-------

— —, N-Isopentyl —
--------------------	-------

— —, N-methyl —
-----------------	-------

— —, N- β -methylpropyl —
---------------------------------	-------

— —, N-propyl —
-----------------	-------

— —, N,N-propylhexanoyl —
---------------------------	-------

— —, N,N-propylpentanoyl —
----------------------------	-------

—, Methyl ester,	$\text{C}_2\text{H}_5\text{NO}_2$
------------------	-----------------------------------	-------

CARBAMIDE see Urea

CARBAZOLE	$\text{C}_{12}\text{H}_9\text{N}$
-----------	-----------------------------------	-------

Water	661-663
Water	1
Water	1
Acetic Acid	4791
Carbon Tetrachloride	4093
Formic Acid	4449
Glycol	5130
Methanol	4589
Phenol	5978
Toluene	6144
Water	1605

Benzene	5932
Various Solvents	6442
Sulfur Dioxide	3791
Various Solvents	6309
Turpentine	6315
Various Solvents	6312
p-Cymene	6295
Glycerol	5307
Various Solvents	6313,6314
Water	1
Benzene	5882
Dimethylbenzene	6216

Carbon Dioxide	4227
Chloroform	4271
Ethanol	4842
Methanol	4533
1-Propanol	5235
Pyridine	5237
Quinoline	5241
Toluene	5239
Water	1,1166
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1
Water	1

Acetone	5195
Benzene	5890
Benzine	6336
Carbon Disulfide	4166
Carbon Tetrachloride	4095
Chloroform	4325
Ethanol	4969,4970
Ethyl Ether	5488
Hydrocarbon Blends	6337,6338
Petroleum Fraction	6339,6340

CARBAZOLE	$C_{12}H_9N$	.....
CARBINOL		
—, Triphenyl	$C_{19}H_{16}$	.....
CARBON	C	.....
CARBON DIOXIDE	CO_2	.....
CARBON DISULFIDE	CS_2	.....
CARBON MONOXIDE	CO	.....
CARBON OXY SULFIDE	COS	.....

Pyridine	5595
Quinoline	6245
Sulfur Dioxide	3797
Toluene	6145,6146
Benzene	5943
Bismuth	1989
Acetic Acid	4215
Acetone	4221-4224
Aniline	4247
Benzaldehyde	4249
Benzene	4244-4246
Bromobenzene	4242
Bromochloromethane	4209
Bromoethane	4216
Carbon Tetrachloride	4039
Chlorobenzene	4241
Chloroform	4207
Chlorine	2077
Cyclohexanol	4248
Dibromodifluoromethane	4036
Dimethylbenzene	4253
Dimethylformamide	4226
Ethanol	4217-4220
Ethyl Acetate	4231,4232
Ethyl Ether	4233-4235
Hydrogen	1701
Methane	4210
Methanol	4211-4213
Methyl Acetate	4225
3-Methyl-1-butanol	4237
Nitrobenzene	4243
Nitrogen	1776,1777
Oxygen	1821
Paraffin	4257
Pentyl Acetate	4251
Polystyrene	4252
1-Propanol	4229
Pyridine	4236
Toluene	4250
Trifluorobromomethane	4035
Various Solvents	4258,4259
Water	1,1071,1072
Acetone	4157
Acetonitrile	4151
Ethanol	4154-4156
Formic Acid	4146
Methanol	4148-4150
Nitromethane	4147
Water	1,1085
Acetone	4181
Benzene	4186
Carbon Tetrachloride	4037
Chlorobenzene	4185
Ethyl Ether	4183,4184
Mercury	2162
Methanol	4180
Methyl Acetate	4182
Various Solvents	4187
Water	1070
Various Solvents	4206

CARBON OXYSULFIDE COS	Water	1081
CARBON TETRACHLORIDE CCl ₄	Benzene	4060
	Chloroform	4040
	Ethanol	4054
	Ethyl Acetate	4057
	Ethyl Ether	4058
	Formic Acid	4041
	Methoxybenzene	4078
	Pentachloroethane	4048
	Phenoxybenzene	4097
	Water	1,1084
CARBONYL CHLORIDE see Phosgene		
CARMINE	Pyridine	5637
	Water	1
CARVENONE C ₁₀ H ₁₆ O	Water	1
CARVONE C ₁₀ H ₁₄ O	Water	1
—, Dihydro —	Water	1
—, Oxime	d-Limonene	6310
—, Tetrahydro —	Water	1
CARYOPHYLLIN C ₃₀ H ₄₈ O ₃	Various Solvents	6505
CASEIN	Ethanol	5121
	Pyridine	5638
	Quinoline	6259
	Water	1
CELLULOSE		
—, Acetate	Chloroform	4403
	Dichloroethane	4763
	Methanol	4617
	Nitrobenzene	5754
	2-Pentanone	5654
	Various Solvents	6360
	Various Solvents	6358
—, Chloroacetates		
CEPHAELINE C ₂₈ H ₃₈ N ₂ O ₄		
—, Hydrobromide	Water	1
—, Hydrochloride	Water	1
CERIUM Ce		
—, Acetate CeC ₆ H ₉ O ₆	Methanol	3330
	Water	849
— —, trifluoro —	Trifluoroacetic Acid	2707
—, Ammonium Nitrate (NH ₄) ₂ Ce(NO ₃) ₅ (NH ₄) ₂ Ce(NO ₃) ₆	Water	551,552
—, Ammonium Sulfate (NH ₄) ₂ Ce(SO ₄) ₄	Water	553
—, Benzene-1-sulfonate Ce(C ₆ H ₅ SO ₃) ₃		
— —, 3-nitro —	Water	1
—, Benzene-2-sulfonate Ce(C ₆ H ₅ SO ₃) ₃		
— —, 1-bromo-4-nitro —	Water	1
—, Bromide CeBr ₃	Acetonitrile	2705
	Formic Acid	2703
	Methanol	2704,6578
	Pyridine	3328
—, Butanoate Ce(C ₄ H ₇ O ₂) ₃	Water	851
—, Camphorcarbonate Ce(C ₁₁ H ₁₅ O ₃) ₃	Various Solvents	3332
—, Chloride CeCl ₃	Acetonitrile	2705
	Formic Acid	2703
	Hydrazine	3326
	Methanol	2704
	Pyridine	3327
—, Formate (CHO ₂) ₃ Ce	Water	848
—, Glycolate Ce(C ₂ H ₃ O ₃) ₃	Water	1
—, Hexadecanoate Ce(C ₁₆ H ₃₁ O ₂) ₃	Ethyl Ether	3333

CERIUM Ce

—, Hexadecanoate $Ce(C_{16}H_{31}O_2)_3$	Turpentine	3334
—, Hexantipyrene Perchlorate $Ce(C_{11}H_{12}N_2O)_6(ClO_4)_3$	Water	1
—, Iodate $Ce(IO_3)_3$	Water	1
—, Iodide CeI_3	Acetonitrile	2705
	Formic Acid	2703
	Methanol	2704,6547
—, Magnesium Nitrate $Mg_3Ce(NO_3)_{12}$	Water	600
—, Nitrate $Ce(NO_3)_3$	Ethyl Ether	3329
—, Octadecanoate $Ce(C_{18}H_{35}O_2)_3$	Ethyl Ether	3336
—, 9-trans-Octadecenoate $Ce(C_{18}H_{33}O_2)_3$	Ethyl Ether	3335
—, Oxalate $Ce_2(C_2O_4)_3$	Water	1
—, Phosphate $Ce_3(RPO_4)_6$		
—, dimethyl —	Water	1
—, Propanoate $Ce(C_3H_5O_2)_3$	Water	850
—, 2-methyl —	Water	852
—, Selenate $Ce(SeO_4)_3$	Water	347
—, Sulfate $Ce(SO_4)_3$	Water	845,846
—, Tartrate $Ce_2(C_4H_4O_6)_3$	Various Solvents	3331

CESIUM Cs

—, Acetate $CsC_2H_3O_2$	Water	481
—, Aluminum Sulfate $Cs_2Al_2(SO_4)_4$	Water	477
—, Azide CsN_3	Water	1
—, Benzene-1-sulfonate $CsC_6H_5SO_3$		
—, 4-bromo-2-nitro —	Water	483
—, 4-chloro-2-nitro —	Water	483
—, 5-chloro-2-nitro —	Water	483
—, 6-chloro-3-nitro —	Water	483
—, 2,4-dinitro —	Water	483
—, 2-nitro —	Water	483
—, 3-nitro —	Water	483
—, 4-nitro —	Water	483
—, Benzoate $CsC_7H_5O_2$	Water	484
—, 2-hydroxy —	Water	486
—, 3-hydroxy —	Water	485
—, 4-hydroxy —	Water	487
—, Bromate $CsBrO_3$	Water	463
—, Bromide $CsBr$	Acetone	2686
	Water	1
—, Cadmium Sulfate $Cs_2Cd(SO_4)_2$	Water	473
—, Carbonate Cs_2CO_3	Ethanol	2693
—, mono-H.	Water	1
—, Chlorate $CsClO_3$	Water	462
—, Chloride $CsCl$	Acetone	2683,2684
	Ammonia	2680
	Selenium Oxychloride	2682
	Sulfur Dioxide	2681
	Various Solvents	2685
	Water	1,461
—, Chromium Sulfate $Cs_2Cr_2(SO_4)_4$	Water	472
—, Cobalt Malonate $CsCo(C_3H_2O_4)_2$	Water	1
—, Cobalt Sulfate $Cs_2Co(SO_4)_2$	Water	473
—, Copper Sulfate $Cs_2Co(SO_4)_2$	Water	473
—, Dibromiodide CsI_2Br	Carbon Tetrachloride	2687
	Water	1
—, Dinitrophenoxide $C_6H_3O_5Cs$	Various Solvents	2697
—, Fluoride CsF	Acetone	2677
	Bromine Trifluoride	2233
	Water	1

CESIUM Cs

—, Fluoride CsF ₃	Hydrogen Fluoride	2678
—, Fluoride CsF ₄	Hydrogen Fluoride	2679
—, Fluosulfonate CsF ₂ SO ₃	Water	1
—, Formate CHO ₂ Cs	Water	480
—, Gallium Selenate CsGa(SeO ₄) ₂	Water	1
—, Gallium Sulfate CsGa(SO ₄) ₂	Water	1
—, Hexabromomercurate CsHgBr ₆	Water	1
—, Hexachloroiridate Cs ₂ IrCl ₆	Water	1
—, Hexachloroplatinate Cs ₂ PtCl ₆	Water	1,474,475
—, Hexachlorothaliate Cs ₂ TlCl ₆	Water	1
—, Hexafluogermanate Cs ₂ GeF ₆	Water	470,478
—, Hexafluophosphate CsPF ₆	Water	1
—, Hexafluotitanate CsTiF ₆	Ethanol	2695
	Water	1
—, Hydroxide CsOH	Water	1
—, Indium Sulfate Cs ₂ In ₂ (SO ₄) ₄	Water	472
—, Iodide CsI	Acetone	2689,2690
	Iodine	2688
—, Iron Sulfate Cs ₂ Fe(SO ₄) ₄	Water	473
—, Iron Sulfate Cs ₂ Fe ₂ (SO ₄) ₄	Water	472
—, Magnesium Sulfate Cs ₂ Mg(SO ₄) ₂	Water	473
—, Manganese Sulfate Cs ₂ Mn(SO ₄) ₂	Water	473
—, Methanedisulfonate Cs ₂ CH ₂ (SO ₃) ₂	Water	1
—, chloro —	Water	1
—, Nickel Sulfate Cs ₂ Ni(SO ₄) ₂	Water	473
—, Nitrate CsNO ₃	Water	466,467
—, Nitrophenoxide C ₆ H ₄ NO ₃ Cs	Various Solvents	2698
—, Oxalate. Hydrogen Orthotellurate Cs ₂ (H ₆ TeO ₆ .C ₂ O ₄)	Water	482
—, Pentaborate Cs ₂ B ₁₀ O ₁₆	Water	465
—, Pentachloroiridate CsIrCl ₅	Water	1
—, Perchlorate CsClO ₄	Various Solvents	2691,2692
	Water	1,464
—, Periodate CsIO ₄	Water	1
—, Permanganate CsMnO ₄	Water	469
—, Perrhenate CsReO ₄	Water	1
—, Picrate C ₆ H ₂ N ₃ O ₇ Cs	Various Solvents	2696
	Water	1
—, Pyrosulfite Cs ₂ S ₂ O ₅	Sulfur Dioxide	2694
—, Ruthenium Nitrosylchloride RuCs ₂ Cl ₂ NO	Water	1054
—, dihydrate	Water	1054
—, Selenate Cs ₂ SeO ₄	Water	1
—, Sodium Sulfate NaCsSO ₄	Water	1
—, Succinate Cs ₂ C ₄ H ₄ O ₂		
—, tetrahydroxy —	Water	1
—, Sulfate Cs ₂ SO ₄	Water	468
—, Tartrate, mono — H. CsC ₄ H ₆ O ₆	Water	1
—, Tetrachloroaurate CsAuCl ₄	Water	471,476
—, Tetrafluoroborate CsBF ₄	Water	1
—, Tetraphenylborate CsC ₂₄ H ₂₀ B	Acetone	2700
	Ethanol	2699
	Ethyl Ether	2701
—, Uranyl Chloride CsUO ₂ Cl ₂	Water	1
—, Uranyl Nitrate UO ₂ Cs(NO ₃) ₂	Water	479
—, Vanadium Sulfate Cs ₂ V ₂ (SO ₄) ₄	Water	472
—, Zinc Sulfate Cs ₂ Zn(SO ₄) ₂	Water	473

CETANE see Hexadecane

CETYL ALCOHOL see 1-Hexadecanol

CHALCONE see 2-Propen-1-one, 1,3-diphenyl —,

CHELIDONIC ACID C₇H₄O₆

Water

1

CHLORAL C_2HOCl_3		
—, Formamide	Ethanol	4835
	Water	1
—, Hydrate	Carbon Disulfide	4152
	Chloroform	4266
	Ethanol	4713,4714
	Ethyl Ether	4716
	Glycerol	4715
	Olive Oil	4720
	Pyridine	4717
	Quinoline	4719
	Toluene	4718
	Turpentine Oil	5144
CHLORINE Cl_2	Benzene	2083
	Carbon Tetrachloride	2078,2079
	Chloromethane	2081
	Cyclohexane	2084
	Dibromoethane	2082
	Dichloromethane	2080
	Heptane	2086
	Hydrogen Chloride	2072
	Methyl Chloride	2081
	Perfluoroheptane	2085
	Silicon Tetrachloride	2074
	Titanium Tetrachloride	2075
	Various Solvents	2087
	Water	41,43
CHLOROFORM $CHCl_3$	Ethyl Ether	4273
	Various Solvents	4404
	Water	1087-1089
CHOLESTEROL $C_{27}H_{46}O$	Ammonia	3537
	Pyridine	5635
	Various Solvents	6500
	Water	1
CHOLESTEROL		
—, Digitonide	Ethyl Ether	5530
—, Octadecanoate	Oils	6522
CHOLINE $C_5H_{15}NO_2$		
—, O-Acetyl—		
— —, 2,4-dinitro-1-naphthol-7-sulfonate	1-Butanol	5500
— —, 2,4-Dinitro-1-naphthol-7-sulfonate	Various Alcohols	6415
—, Perchlorate	Water	1
CHROMIUM Cr	Mercury	2066
—, Acetate $CrC_6H_9O_6$	Acetone	3840
	Methanol	3839
	Water	1,557
—, Ammonium Sulfate $NH_4Cr(SO_4)_2$		
—, Azobenzenesulfonate $Cr(C_{12}H_9N_2SO_3)_3$		
— —, dimethylamino—	Water	1
—, Cesium Sulfate $Cr_2Cr_2(SO_4)_4$	Water	472
—, Chloropentamminechromium (III) $[Cr(NH_3)_5Cl]X_2$		
— —, Nitrate	Water	1
Hexaantipyrine Chromium $Cr(C_{11}H_{12}N_2O)_6X_3$		
—, chlorate	Water	1
—, dichromate	Water	1
—, hexacyanoferrate	Water	1
—, perchlorate	Water	1
—, picrate	Water	1
—, tetrafluoroborate	Water	1
—, thiocyanate	Water	1

CHROMIUM Cr

Hexamminochromium (III) $\text{Cr}(\text{NH}_3)_6\text{X}_3$		
—, Bromide	Water	986
—, Chlorate	Water	986
—, Chloride	Water	986
—, Dichromate	Water	986
—, Iodide	Water	986
—, Naphthalene sulfonate	Water	986
—, Nitrate	Water	1,986
—, Oxalate	Water	986
—, Perchlorate	Water	986
—, Permanganate	Water	1
—, Perrhenate	Water	1
—, Phosphate	Water	986
—, Sulfate	Water	986
—, Tetrafluoroborate	Water	1
Hexaureachromium (III) $\text{Cr}(\text{CH}_4\text{N}_2\text{O})_6\text{X}_3$		
—, Bromide	Water	987
—, Chlorate	Water	987
—, Chloride	Water	987
—, Chloride sulfate	Water	987
—, Dichromate	Water	987
—, Dichromate bromide	Water	987
—, Dichromate disulfate	Water	987
—, Dichromate nitrate	Water	987
—, Dichromate perchlorate	Water	987
—, Dichromate tetrafluoroborate	Water	987
—, Fluosulfonate	Water	1
—, Hexacyanocobaltate	Water	987
—, Hexafluosilicate	Water	987
—, Iodide	Water	987
—, Nitrate	Water	987
—, Nitrite	Water	987
—, Perchlorate	Water	987
—, Permanganate	Water	1
—, Perrhenate	Ethanol	1,3838
	Water	1
—, Sulfate	Water	987
—, Sulfate bromide	Water	987
—, Sulfate chlorate	Water	987
—, Sulfate fluosulfonate	Water	987
—, Sulfate iodide	Water	987
—, Sulfate nitrate	Water	987
—, Sulfate perchlorate	Water	987
—, Sulfate tetrafluoroborate	Water	987
—, Thiosulfate	Water	987
Pentamminechromium Chloride $[\text{Cr}(\text{NH}_3)_5]\text{Cl}_3$		
—, Perchlorate $\text{Cr}(\text{ClO}_4)_3$	Water	1
—, Potassium Sulfate $\text{KCr}(\text{SO}_4)_2$	Water	985
—, Rubidium Sulfate $\text{RbCr}(\text{SO}_4)_2$	Water	1
—, Sulfate CrSO_4	Water	4 14
—, Sulfate $\text{Cr}_2(\text{SO}_4)_3$	Water	1
—, Tellurium Sulfate $\text{CrTe}(\text{SO}_4)_2$	Water	1
Tetramminedihydroxochromium (III) Chloride		
$[\text{Cr}(\text{NH}_3)_4\text{H}_2\text{O}]\text{Cl}_3$	Water	1
—, Trichloride CrCl_3	Hydrazine	3837
—, Trioxide CrO_3	Hydrazine	3836
	Water	983,984
CHRYSAROBIN $\text{C}_{15}\text{H}_{12}\text{O}_3$	Various Solvents	64 10
CHRYSENE C_8H_{12}	Ethanol	5023

CHRYSENE C_8H_{12}	Toluene	6155
CINCHONIDINE $C_{19}H_{22}N_2O$	Benzene	5945
	Chloroform	4371
	Ethanol	5040
	Methanol	4605
	Pyridine	5622
	Various Solvents	6466
	Water	1
CINCHONIDINE		
—, Dihydrobromide	Water	1650
—, Dihydrochloride	Water	1650
—, Helianthate	Water	1
—, Hexabromoiridate	Water	1057
—, Hexachloroiridate	Water	1057
—, Hydrobromide	Water	1650
—, Salicylate	Water	1650
—, Sulfate	Chloroform	4394
	Ethanol	5100
	Ethyl Ether	5523
	Methanol	4614
	Water	1650
	Water	1650
—, Sulfate, mono-H.	Water	1650
—, Tannate	Water	1650
CINCHONINE $C_{19}H_{22}N_2O$	Acetone	5211
	Aniline	6010
	Benzene	5944
	Chloroform	4369,4370
	Diethylamine	5542
	Ethanol	5037-5039
	Ethyl Ether	5508,5509
	Methanol	4604
	3-Methyl-1-butanol	5666
	3-Methyl-1-propanol	5507
	Piperidine	5656
	Pyridine	5621
	Various Solvents	6465
	Water	1
CINCHONINE		
—, Dihydrobromide	Water	1649
—, Hexabromoiridate	Water	1057
—, Hexachloroiridate	Water	1057
—, Hydrobromide	Water	1649
—, Hydrochloride	Water	1649
—, Oxalate	Water	1649
—, Salicylate	Water	1649
—, Sulfate	Chloroform	4393
	Ethanol	5099
	Ethyl Ether	5522
	Glycerol	5319
	Methanol	4613
	Water	1649
—, Sulfate mono-H.	Water	1649
—, Tannate	Water	1649
—, Tartrate	Water	1649
—, Tartrate mono-H.	Water	1649
CINEOLE $C_{10}H_{18}O$	Water	1607
CINNAMIC ACID $C_9H_8O_2$	Ammonia	3535
	Benzene	5866
	Carbon Tetrachloride	4084
	Ethanol	4945
	Formic Acid	4442

CINNAMIC ACID $C_9H_8O_2$	Petroleum Ether	6262
—, trans	Quinoline	6239
	Various Alcohols	6261
	Various Oils	6263
	Various Solvents	6264-6266
—, α - and β - Bromo —.	Water	1571-1573*
	Benzene	5865
—, α - and β - Chloro —.	Water	1
—, Dibromo —.	Benzene	5865
—, Dichloro —.	Benzene	5865
—, β - Ethyl —.	Benzene	5866
	Petroleum Ether	5997
—, Hydroxy —. see Coumaric Acid		
—, 2-Methoxy β - methyl —.	Benzene	5866
	Petroleum Ether	5997
—, 4-Methoxy —.	Water	1
—, β - Methyl —.	Benzene	5866
	Petroleum Ether	5997
—, 4-Methyl- β -methyl —.	Benzene	5866
	Petroleum Ether	5997
—, 3,4-Methylenedioxy —.	Water	1
—, β -Propyl —.	Benzene	5866
	Petroleum Ether	5997
CITRACONIC ACID see Mallic Acid, methyl—.		
CITRIC ACID $C_6H_8O_7$	p-Cymene	6019
	Dichloroethylene	4693
	Formic Acid	4432
	Methanol	4549
	1-Propanol	5252
	Trichloroethylene	4657
	Various Solvents	6020
	Water	1363, 1364
	Mercury	2162
	Water	1070
	Hydrazine	3990
	Methanol	3991
	Trifluoroacetic Acid	2707
COBALT Co		
—, Acetate $CoC_4H_8O_4$	Various Solvents	3992
— —, trifluoro —.	Water	1
—, Aminomethanethionothiolate $Co(CH_2NS_2)_3$	Water	560, 561
— —, N,N-diethyl —.	Water	1
—, Ammonium Malonate $(NH_4)_2Co(C_3H_2O_4)_2$	Water	1
—, Ammonium Sulfate $(NH_4)_2Co(SO_4)_2$	Water	1
—, Anthracene-1-sulfonate $Co(C_{14}H_9SO_3)_2$	Water	1
—, Anthracene-2-sulfonate	Water	1
—, Azobenzenesulfonate $Co(C_{12}H_8N_2SO_3)_2$		
— —, dimethylamino —.	Water	1
—, Benzene-4-selenonate $Co(C_6H_5SeO_3)_2$		
— —, 1,2-dimethyl —.	Water	1
—, Benzene-sulfonate $Co(C_6H_5SO_3)_2$	Water	1036
—, Benzene-2-sulfonate		
— —, 1,4-dimethyl —.	Water	1
—, Benzene-4-sulfonate		
— —, 1,2-dimethyl —.	Water	1
—, Benzoate $Co(C_7H_5O_2)_2$		
— —, 4-chloro —.	Water	1
— —, 4-hydroxy —.	Water	1
— —, 4-methoxy —.	Water	1
— —, 4-nitro —.	Water	1
—, Bromide $CoBr_2$	Acetone	3977
	Ethanol	3976

COBALT Co

—, Bromide CoBr_2	Methanol	3975
	Methyl Acetate	3978
	Water	1026
—, Cesium Malonate $\text{Cs}_2\text{Co}(\text{C}_3\text{H}_2\text{O}_4)_2$	Water	1
—, Cesium Sulfate $\text{Cs}_2\text{Co}(\text{SO}_4)_2$	Water	473
—, Chlorate $\text{Co}(\text{ClO}_3)_2$	Water	1028
—, Chloride CoCl_2	Acetone	3965-3968
	Acetonitrile	3962
	Ethanol	3963
	Ethyl Acetate	3970
	Ethylene Glycol	3964
	Ethyl Ether	3971
	Formic Acid	3960
	Hydrazine	3957
	Methanol	3961
	Methyl Acetate	3969
	Pyridine	3972, 3973
	Selenium Oxychloride	3959
	Sulfur Dioxide	3958
	Various Solvents	3974
	Water	1025
—, Cinnamate $\text{Co}(\text{C}_9\text{H}_7\text{O}_2)_2$	Water	1
—, Citrate $\text{Co}_3(\text{C}_6\text{H}_5\text{O}_7)_2$	Water	1
—, Citrate, mono-H.	Water	1
—, Disulfide, di-H. $\text{Co}(\text{HS})_2$	Water	1
—, Ethyl Xanthate $\text{Co}(\text{C}_2\text{H}_5\text{OCS}_2)_2$	Water	214
—, Fluoride CoF_2	Hydrogen Fluoride	3955
	Water	1
—, Fluoride CoF_3	Hydrogen Fluoride	3956
—, Fumarate $\text{CoC}_4\text{H}_2\text{O}_4$	Water	1
—, Hexa. antipyrine $\text{Co}(\text{C}_4\text{H}_{12}\text{N}_2\text{O})_6\text{X}_2$		
—, —, perchlorate	Water	1
—, —, tetrafluoroborate	Water	1
Hexamminecobalt (III) $\text{Co}(\text{NH}_3)_6\text{X}_3$		
—, Chloride	Water	1
—, Dinitro-oxalatodiammine cobaltate	Water	1
—, Hexacyanocobaltate	Water	1
—, Hexacyanoferrate	Water	1
—, Perrhenate	Water	1
—, Tetranitrodiammine cobaltate	Water	1
—, Hydroxide $\text{Co}(\text{OH})_3$	Water	1
—, Iodate $\text{Co}(\text{IO}_3)_2$	Water	1029
—, Iodide CoI_2	Sulfur Dioxide	3979
	Water	1027
—, Malate $\text{CoC}_4\text{H}_4\text{O}_5$	Water	1
—, Malonate $\text{CoC}_3\text{H}_2\text{O}_4$	Water	1
—, Methanedisulfonate $\text{CoCH}_2\text{S}_2\text{O}_5$	Water	1
—, Naphthalene-1-sulfonate $\text{Co}(\text{C}_{10}\text{H}_7\text{SO}_3)_2$		
—, —, 5-chloro —.	Water	1
—, Naphthalene-2-sulfonate	Water	1037
—, —, 6-hydroxy —.	Water	1
—, 2-Naphthylamine-5,7-disulfonate $\text{CoC}_{10}\text{H}_7\text{N}(\text{SO}_3)_2$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, Neodymium Nitrate $\text{Co}_3\text{Nd}_2(\text{NO}_3)_8 \cdot 24\text{H}_2\text{O}$	Water	863
—, Nitrate $\text{Co}(\text{NO}_3)_2$	Ethylene Glycol	3984
	Tributyl Phosphate	2706
	Water	1, 1032, 1033
—, Nitrite $\text{Co}(\text{NO}_2)_2$	Pyridine	3983
	Water	1031

COBALT Co		
—, Nitroso-β-phenylhydroxylamine	$\text{Co}(\text{C}_6\text{H}_5\text{N}_2\text{O}_2)_2$	Water 1
—, Oxalate	CoC_2O_4	Formic Acid 3989
		Water 1
—, Pentacyanonitrosferrate	$\text{CoFe}(\text{CN})_5\text{NO}$	Water 1
—, Pentamminecobalt	$\text{Co}(\text{NH}_3)_5\text{X}_3$	
—, Chloride		Water 1
—, Pentamminedihydroxo cobalt	$[\text{Co}(\text{NH}_3)_5\text{H}_2\text{O}]\text{Cl}_3$	
—, Chloride		Water 1
—, Perchlorate	$\text{Co}(\text{ClO}_4)_2$	2-Ethoxyethanol 3981
		Furfural 3982
		Water 1, 1030
—, Potassium Citrate	$\text{KCoC}_6\text{H}_5\text{O}_7$	Water 1
—, Potassium Malonate	$\text{K}_2\text{Co}(\text{C}_3\text{H}_2\text{O}_4)_2$	Water 1
—, Potassium Sulfate	$\text{K}_2\text{Co}(\text{SO}_4)_2$	Water 1, 348
—, Praseodymium Nitrate	$\text{Pr}_2\text{Co}_3(\text{NO}_3)_5 \cdot 24\text{H}_2\text{O}$	Water 855
—, Rubidium Sulfate	$\text{CoRb}_2(\text{SO}_4)_2$	Water 412, 413
—, Samarium Nitrate	$[\text{Sm}(\text{NO}_3)_6]\text{Co}_3$	Nitric Acid 3344
—, Sulfate	CoSO_4	Ethanol 3986
		Methanol 3985
		Water 1034, 1035
		Water 1
—, Sulfide		
—, dihydroxo —, CoH ₂ SO		Water 1
—, Thiocyanate	$\text{Co}(\text{CNS})_2$	Sulfur Dioxide 3980
—, Thiocyanatopentammine cobalt (II)	$[\text{Co}(\text{NH}_3)_5\text{CNS}]\text{X}_2$	
—, Iodide		Water 1
—, Nitrate		Water 1
—, Trihydrogen Hexacyanocobaltate	$\text{H}_3[\text{Co}(\text{CN})_6]$	Water 1
—, 2 (methanol)		Methanol 3987
—, 3 (ethanol)		Ethanol 3988
COCAINE $\text{C}_{17}\text{H}_{21}\text{NO}_4$		Aniline 6007
		Benzene 5933
		Carbon Tetrachloride 4117
		Chloroform 4355
		Diethylamine 5541
		Ethanol 5021
		Ethyl Acetate 5398
		Ethyl Ether 5501
		Oil of Turpentine 6448
		Olive Oil 6446, 6447
		Petroleum Ether 6444
		Piperidine 5655
		Pyridine 5618
		Sesame Oil 6445
		Water 1
COCAINE		
—, Hydrochloride		Chloroform 4356
		Ethanol 5022
		Glycerol 5311, 5314
		Water 1
CODEINE $\text{C}_{18}\text{H}_{21}\text{NO}_3$		Benzene 5935
		Carbon Tetrachloride 4118
		Chloroethene 4709
		Chloroform 4358
		Ethanol 5027
		Ethyl Ether 5502
		Methanol 4599
		Olive Oil 6458
		Petroleum Ether 6457

CODEINE $C_{18}H_{21}NO_3$	Water	1
—, Hydrochloride	Trichloroethylene	4666
	Water	1
—, Phosphate	Chloroform	4359
	Ethanol	5028
	Ethyl Ether	5503
	Water	1
—, Picrate	Acetone	5219
	Ethanol	5076
	Water	1
—, Sulfate	Chloroform	4360
	Ethanol	5029
	Methanol	4600
	Water	1
—, Trichloroacetate	Water	1
COLCHICINE $C_{22}H_{25}NO_6$	Various Solvents	6487,6488
—, Dodecawolframosilicate	Water	1
—, Hydroiodide	Water	1
γ -COLLIDINE see Pyridine, 2,4,6-trimethyl —.		
COMENIC ACID $C_6H_4O_5$	Water	1
CONGO RED $C_{16}H_{11}N_3O_3SNa$	Pyridine	5614
	Water	1
COPPER Cu	Lead	1943
—, Acetate $CuC_4H_5O_4$	Mercury	1941,1942
	Acetic Acid	2573
	Acetone	2574
	Glycerol	2575
	Methanol	2572
	Pyridine	2576
— —, trifluoro —.	Trifluoroacetic Acid	2707
—, Ammonium Chloride $(NH_4)_2CuCl_4$	Water	384
—, Ammonium Sulfate $(NH_4)_2Cu(SO_4)_2$	Water	385
—, Anthracene-1-sulfonate $Cu(C_{14}H_9SO_3)_2$	Water	1
—, Anthracene-2-sulfonate	Water	1
—, Azobenzenesulfonate $Cu(C_{12}H_9N_2SO_3)_2$		
— —, dimethylamino —.	Water	1
—, Benzenesulfonate $Cu(C_6H_5SO_3)_2$	Water	387
—, Benzoate $Cu(C_7H_5O_2)_2$	Acetone	2580
	Methanol	2579
— —, 4-chloro —.	Water	1
— —, 4-hydroxy —.	Water	1
—, Bromide CuBr	Acetonitrile	2561
—, Bromide $CuBr_2$	Acetonitrile	2563
	Formic Acid	2562
	Water	376
—, Carbonate $CuCO_3$	Water	1
—, Cesium Sulfate $Cs_2Cu(SO_4)_2$	Water	473
—, Chlorate $Cu(ClO_3)_2$	Water	377
—, Chloride $CuCl$	Acetonitrile	2530
	2-Buten-1-ol	2532
	3-Buten-2-ol	2534
	2-Chloro-2-propen-1-ol	2531
	1,1-Dimethyl-2-propen-1-ol	2535
	3,3-Dimethyl-2-propen-1-ol	2536
	2-Methyl-2-buten-1-ol	2537
	3-Methyl-3-buten-1-ol	2538
	4-Methyl-4-penten-2-ol	2540

COPPER Cu

—, Chloride CuCl	2-Methyl-2-propen-1-ol	2533
	1-Penten-3-ol	2539
	Water	1
—, Chloride CuCl ₂	Acetic Acid	2544
	Acetone	2547
	Acetonitrile	2543
	Benzyl Alcohol	2560
	1-Butanol	2556
	Ethanol	2545,2546
	Ethyl Acetate	2554,2555
	Ethyl Ether	2557
	Ethyl Formate	2550
	Methanol	2541,2542
	Methyl Acetate	2549
	3-Methyl-1-butanol	2559
	1-Propanol	2551,2552
	2-Propanol	2553
	2-Propen-1-ol	2548
	Pyridine	2558
	Water	1,374,375
—, Diazoaminobezene C ₁₂ H ₁₀ N ₃ Cu	Alcohols	2578
—, Diethylthioithionocarbamate Cu(C ₅ H ₁₀ NS ₂) ₂ ...	Various Solvents	2577
—, Dithionate CuS ₂ O ₆	Water	383
—, Ethyl Xanthate (C ₂ H ₅ OCS ₂) ₂ Cu ₂	Water	214
—, Fluoride CuF ₂	Bromine Trifluoride	2233
	Hydrogen Fluoride	2529
—, Formate C ₂ H ₂ O ₄ Cu	Formic Acid	2571
—, Fumarate CuC ₄ H ₂ O ₄	Water	1
—, Hexafluosilicate CuSiF ₆	Water	1
—, Hydroxide Cu(OH) ₂	Water	1
—, Iodate Cu(IO ₃) ₂	Water	1
—, Iodide CuI	Acetonitrile	2564
	Pyridine	2565
—, Iodide CuI ₂	Water	1
—, Maleate CuC ₄ H ₂ O ₄	Water	1
—, Methanedisulfonate CuCH ₂ O ₆ S ₂	Water	1
—, Naphthalene-1-sulfonate Cu(C ₁₀ H ₇ SO ₃) ₂	Water	1
—, 5-chloro —.	Water	1
—, Naphthalene-2-sulfonate Cu(C ₁₀ H ₇ SO ₃) ₂	Water	388
—, 6-hydroxy —.	Water	1
—, Nitrate Cu(NO ₃) ₂	Hydrazine	2568
	Tributyl Phosphate	2706
—, Oxalate CuC ₂ O ₄	Water	378
	Water	1
—, Pentacyanonitrosferrate CuFe(CN) ₅ NO	Water	1
—, Pentaantipyrine Cu(C ₁₁ H ₁₂ N ₂ O) ₅ BF ₄		
—, tetrafluoborate	Water	1
—, Perchlorate Cu(ClO ₄) ₂	2-Ethoxyethanol	2566
	Furfural	2567
	Water	1
—, Phenanthrene-2-sulfonate Cu(C ₁₄ H ₉ SO ₃) ₂	Water	1
—, Phenanthrene-3-sulfonate Cu(C ₁₄ H ₉ SO ₃) ₂	Water	1
—, 10-chloro —.	Water	1
—, Phenanthrene-10-sulfonate Cu(C ₁₄ H ₉ SO ₃) ₂	Water	1
—, Phosphonites (R ₂ PO ₂) ₂ Cu		
—, bis-p-chlorophenyl —.	Benzene	5971
	Ethanol	5112
	Water	1678
—, dibutyl —.	Benzene	5971
	Ethanol	5112

COPPER Cu

—, Phosphonites $(R_2PO_2)_2Cu$	Water	1678
—, dibutyl—	Benzene	5971
—, di-n-decyl—	Ethanol	5112
	Water	1678
—, diphenyl—	Benzene	5971
	Ethanol	5112
	Water	1678
—, Potassium Citrate $K_4Cu(C_6H_5O_7)_2$	Water	1
—, Potassium Sulfate $K_2Cu(SO_4)_2$	Water	1,333
—, Rubidium Sulfate $Rb_2Cu(SO_4)_2$	Water	413
—, Sulfate $CuSO_4$	Deuterium Oxide	2569
	Methanol	2570
	Water	379-382
—, Sulfide CuS	Water	1
—, Tartrate $C_4H_4O_6Cu$	Water	386
Tetrammine copper (II) $Cu(NH_3)_4(SO_3F)_2$		
—, Fluosulfonate	Water	1
Tetrapyridine copper (II) $Cu(C_5H_5N)_4(SO_3F)_2$		
—, Fluosulfonate	Water	1
—, Thallium Sulfate $CuTl_2(SO_4)_2$	Water	1
COTTON SEED OIL	Formic Acid	4455
	Methanol	4618
COUMARIC ACID $C_9H_8O_3$	Water	1
—, Ethyl—	Water	1
—, Methyl—	Water	1
—, Pentyl—	Water	1
allo-p-COUMARIC ACID $C_9H_8O_3$	Water	1
COUMARIN $C_9H_8O_2$	Chloroform	4313
	Ethanol	4944
	Pyridine	5592
	Quinoline	6236
	Water	1
COUMARINIC ACID $C_9H_8O_3$		
—, Acetyl—	Water	1
—, Ethyl—	Water	1
—, Methyl—	Water	1
COUMARONE C_9H_8O	Indene	6191
	Naphthalene	6192
CREATINE $C_4H_8N_3O$		
—, 2,4-Dinitro-1-naphthol-7-sulfonate	Various Solvents	6402
—, Picrate	Water	1597
o-CRESOL C_7H_8O	Ethanol	4918
	Water	1475-1477
m-CRESOL C_7H_8O	Water	1,1473-1474
p-CRESOL C_7H_8O	Water	1478,1479
2,3-CRESOTIC ACID	Benzene	5844
	Heptane	6174
	Water	1533
2,4-CRESOTIC ACID	Benzene	5845
	Heptane	6175
	Water	1534
2,5-CRESOTIC ACID	Benzene	5846
3,4-CRESOTIC ACID	Benzene	5847
	Heptane	6177
	Water	1536
3,6-CRESOTIC ACID	Water	1535
4,3-CRESOTIC ACID	Benzene	5848

4,3-CRESOTIC ACID	Heptane	6178
CROTONIC ACID $C_4H_6O_2$	Water	1537
—, 3-Chloro —.	Various Solvents	5350
CRYPTOPINE	Various Solvents	5343
—, Picrate $C_{27}H_{26}N_4O_{12}$	Various Solvents	6499
CUMENE C_9H_{12}	Water	1583
CUMIDINE $C_9H_{13}N_2$		
—, Benzene sulfonate	Water	1366
CUPREINE $C_{19}H_{22}N_2O_2$		
—, Sulfate	Water	1
CYANAMIDE CH_2N_2	Water	1096
CYANIC ACID $CHNO$	Water	1090
CYANOGEN $(CN)_2$	Various Solvents	2158
—, Iodide ICN	Water	1
CYCLOHEXANE C_6H_{12}	Ammonia	3526
	Furfural	5553
	Methanol	4551
	Propanenitrile	5149
	Sulfur Dioxide	3778
	Water	1380
CYCLOHEXANE		
—, Hexachloro —.	Naphthalene	5972
—, Methyl —.	Furfural	5560
	o-Toluidine	6162
—, Perfluorodimethyl	Various Solvents	6187
—, Perfluoromethyl —.	Benzene	5788
	Carbon Tetrachloride	4068,4069
	Chlorobenzene	5721
	Chloroform	4295
	Toluene	6058
	Various Solvents	6060
CYCLOHEXANECARBOXYLIC ACID $C_7H_{12}O_2$	Water	1
CYCLOHEXANOL $C_6H_{12}O$	Water	1
CYCLOHEXANONE $C_6H_{10}O$		
—, Methyl —.	Water	1,1498
—, Oxime	Cyclohexane	6025
	Water	1378
CYCLOPENTANE C_5H_{10}	Furfural	5552
—, Methyl —.	Furfural	5554
CYCLOPENTANOL $C_5H_{10}O$	Water	1266
CYCLOPROPANE OXIDE		
—, 2,2 -Dimethyl —.	Water	1259
1-CYSTINE $C_6H_{12}N_2O_4S_2$	Water	1406,1407
CYTISINE $C_{11}H_{14}N_2O$	Various Solvents	6327
	Water	1
DECANEDIOIC ACID $C_{10}H_{18}O_4$	Formic Acid	4447
—, Ethyl ester	Water	1
DECANOIC ACID $C_{10}H_{20}O_2$		
—, Ethyl ester	Water	1
DESOXYBENZONIN $C_{14}H_{12}O$	Carbon Tetrachloride	4109
	Chloroform	4346
	Pyridine	5602
DEXTRIN $C_{12}H_{20}O_{10}$		
DIANISIDINE $C_{14}H_{16}N_2O_2$		
—, Benzene sulfonate	Water	1366
— —, 3-nitro —.	Water	1362
DIAZOAMINOBENZENE $C_{12}H_{11}N_3$	Pyridine	5601
1;2;5;6-DIBENZANTHRACENE $C_{22}H_{14}$	Water	1688
DIBENZOFURAN $C_{12}H_8O$	Diphenylamine	6333
DICETYL see Dotriacontane		

DICYANODIAMIDE $C_2H_4N_4$	Ethanol	4802
	Ethyl Ether	4803
	Water	1137
DIDYMIUM Di		
—, Ammonium Nitrate $(NH_4)_2Di(NO_3)_6$	Water	1
—, Benzenesulfonate $Di(C_6H_5SO_3)_2$	Water	869
— —, 3-bromo —.	Water	869
— —, 3-chloro —.	Water	869
— —, 6-chloro-3-nitro —.	Water	869
— —, 3-nitro —.	Water	869
—, Naphthalene-1-sulfonate $Di(C_{10}H_7SO_3)_2$	Water	869
— —, 5-nitro —.	Water	869
— —, 6-nitro —.	Water	869
— —, 7-nitro —.	Water	869
—, Potassium Sulfate $KDi(SO_4)_2$	Water	1
—, Sulfate $Di_2(SO_4)_3$	Water	868
DIETHYLAMINE $C_4H_{11}N$	Glycol	5123
	Water	1234
m-DIGALLIC ACID $C_{14}H_{10}O_9$	Glycerol	5310
	Trichloroethylene	4664
	Water	1599
DILACTONE $C_{10}H_{12}O_8$	Glycerol	5132
DIMETHYLAMINE C_2H_7N		
DIONIN see Morphine, ethyl—.		
DIOXANE $C_4H_8O_2$	Cyclohexane	5383
	Phosphorous Acid	3592
	Pyrosulfuric Acid	3832
	Silicon Tetrabromide	3394
	Silicon Tetrachloride	3387
	Water	1196, 1197
DIPHENYLAMINE $C_{12}H_{11}N$	Carbon Disulfide	4168, 4169
	Ethanol	4974
	Hexene	6045
	Maleic Anhydride	5324
	Methanol	4592
	2-Naphthylamine	6288
	Phenyl Isothiocyanate	6078
	Various Solvents	6352, 6353
	Water	1618, 1619
DIPHENYLAMINE		
—, Dinitro —.	Various Solvents	6342
—, Hexanitro —.	Various Solvents	6331
—, Tetranitro —.	Various Solvents	6332
DIPHENYLAMINE BLUE	Various Solvents	6540
DIPROPYLAMINE $C_6H_{13}N$	Water	1427
cis-13-DOCOSENOIC ACID $C_{22}H_{42}O_2$	Ethanol	5072
	Various Solvents	6492
DODECANOIC ACID $C_{12}H_{24}O_2$	Benzene	5895
	Hexadecanoic Acid	6362
	Various Alcohols	6363
	Water	1
DODECANOIC ACID		
—, 1-Ascorbyl ester	Oils	6459
—, Phenacyl ester	Ethanol	5057
— —, p-bromo —.	Ethanol	5056
— —, p-chloro —.	Ethanol	5055
DOTRIACONTANE $C_{32}H_{66}$	Benzene	5962
	Carbon Disulfide	4175
	Carbon Tetrachloride	4139
	Ethyl Ether	5520

DOTRIACONTANE $C_{32}H_{66}$	Heptane	6183
	Tin Tetrabromide	3427
	Tin Tetrachloride	3424
	2,2,4-Trimethylpentane	6232
DYSPROSIUM Dy		
—, Phosphate $Dy(R_2PO_4)_3$		
— —, dimethyl —	Water	878
—, Sulfate $Dy_2(SO_4)_3$	Water	1
EICOSANOIC ACID $C_{20}H_{40}O_2$		
—, Phenacyl ester	Ethanol	5091
— —, p-bromo —	Ethanol	5090
— —, p-chloro —	Ethanol	5089
ELAIDIC ACID see 9-Octadecenoic Acid		
β -ELATERIN $C_{20}H_{38}O_5$		
	Chloroform	4381
	Ethanol	5058
EMETINE $C_{29}H_{40}N_2O_4$	Olive Oil	6504
	Water	1
—, Hydrobromide	Water	1
—, Hydrochloride	Water	1
—, Nitrate	Water	1
—, Sulfate	Water	1
EMODIN $C_{15}H_{10}O_5$	Various Solvents	6407
ENANTHALDEHYDE $C_7H_{14}O$	Water	1
EPICHLOROHYDRIN C_3H_5OCl	Water	1155
ERBIUM Er		
—, Benzene-2-sulfonate $Er(C_6H_5SO_3)_3$		
— —, 1-bromo-4-nitro —	Water	1
—, Nitrate $Er(NO_3)_3$	Ethyl Ether	3345
—, Oxide Er_2O_3	Water	1
—, Phosphate $Er(R_2PO_4)_3$		
— —, dimethyl —	Water	879
—, Sulfate $Er_2(SO_4)_3$	Water	1,883
ERUCIC ACID $C_{22}H_{42}O_2$	Ethanol	5072
	Various Solvents	6492
ERYTHRITOL $C_4H_{10}O_4$	Pyridine	5540
	Water	1233
ERYTHROSIN $Ne_2C_{20}H_6O_5I_4$	Pyridine	5623
	Water	1
ETHANE C_2H_6		
	Acetone	4824
	Benzene	4828
	Carbon Tetrachloride	4052
	Chlorobenzene	4827
	Cyclohexanol	4829
	Ethyl Acetate	4826
	Heptane	4832
	Hexane	4830
	Hydrocarbon Blends	4833
	Methyl Acetate	4825
	Nitrogen	1787
	Oxygen	1829
	Pentyl Acetate	4831
	Various Solvents	4834
	Water	1143,1144
ETHANE		
—, Amino — see Ethylamine		
—, Bromo —	Ethyl Ether	4806
	Water	1138
—, Chloro —	Carbon Tetrachloride	4051
	Dichloroethane	4748
	Kerosine	4804

ETHANE C₂H₆

—, Chloro—	.....
—, Chlorobromo—	.....
—, 1,2-Dibromo—	.....
—, Dichloro—	.....
—, 1,1-Dichloro—	.....
—, 1,2-Dichloro—	.....
—, Dichlorodiphenyltrichloro— (DDT)	.....
—, Dichlorotetrafluoro—	.....
—, 1,2-Diphenyl—	.....
—, 1,2-Epoxy—	.....
—, Ethoxy—	see Ethyl Ether
—, Ethylthio—	see Ethyl Sulfide
—, Hexachloro—	.....
—, Pentachloro—	.....
—, Pentanitrophenyl—	.....
—, Tetrabromo—	.....
—, Tetrachloro—	.....
—, 1,1,1,2-Tetrachloro—	.....
—, Tetrachlorodinitro—	.....
—, 1,1,1-Trichloro—	.....
—, 1,1,1,2-Trichloro—	.....
—, Trichlorotrifluoro—	.....

ETHANOL C₂H₅O

Various Solvents	4805
Water	1
Water	1
Water	1132
Acid dye bright green J	4761
Blue dye K for silk acetate	4756
Cyanine dye green 5G	4762
Scarlet dye J for silk acetate	4755
Sudan blue dye U	4759
Sudan red dye 7V	4760
Sudan yellow dye U	4757
Water	1129
Water	1130,1131
Acetone	5198
Benzene	5913
Carbon Tetrachloride	4105
Chloroform	4342
Dioxane	5397
Ethanol	5000
Ethyl Ether	5492
Petroleum Ether	6379
Pyridine	5607
Various Solvents	4641
Sulfur Dioxide	3805
Dichloroethane	4769
Water	1133,1134
Anthracene	4653
Benzene	4649
Dichlorobenzene	4648
Ethyl Trichloroacetate	4647
Naphthalene	4652
Perfluorobutoxybutane	4650
Perfluorotripropylamine	4651
Water	1
Water	1
Water	1,6552
Water	1
Water	1,1115
Water	1116
Dinitrogen Tetroxide	3581
Water	1119
Water	1120
Various Solvents	4642
Acetone	4838
Acid dye bright green J	5087
Anabasine Hydrochloride	4961
Anabasine Hydroiodide	4962
Aphillidine Chlorohydrate	5007
Aphillidine Iodohydrate	5008
Blue dye K for silk acetate	5016
Butanedinitrile	4845
Carbon Tetrachloride	4053
Cotton Seed Oil	5118
Cyanine dye green 5G	5088
Ethyl Ether	4859
Glycerol Trinitrate	4837
Lupinine Hydrochloride	4922

ETHANOL C ₂ H ₅ O	Oils	6585
	Phenol	4880
	Scarlet dye J for silk	
	acetate	5013
	Sudan blue dye U	5068
	Sudan red dye 7V	5075
	Sudan Yellow dye U	5026
	Various Oils	5119
	Various Solvents	5122
	Water	1145,1446
ETHANOL		
—, Butoxy —.	Water	1420
ETHENE see Ethylene		
ETHYLAMINE C ₂ H ₇ N		
—, Trinitrophenylnitro —.	Water	1523
ETHYLENE C ₂ H ₄	Acetone	4730,4731
	Benzene	4734,4735
	Benzene Heads	4745
	Carbon Dioxide	4214
	Carbon Tetrachloride	4050
	Chlorobenzene	4733
	Cracked Benzene	4746
	Cyclohexanol	4736
	Dimethylbenzene	4742
	Ethanol	4729
	Heptane	4739,4740
	Hexane	4737,4738
	Kerosine	4747
	Methyl Acetate	4732
	Nitrogen	1786
	Oxygen	1827,1828
	Polystyrene:	4741
	Water	1,1127,1128
ETHYLENE		
—, Esters see under Glycol		
—, Chloro —.	Dichloroethane	4703,4704,4728
	N,N-Dimethylformamide	4706
	Ethanol	4705
	Heavy Solvent	4712
	Kerosine	4710
	Methylcyclohexanone	4708
	Solar Oil	4711
	Tetrahydrofuran	4707
	Water	1113
—, Trichloro —.	Benzoic Acid	5141
ETHYLENEDIAMINE C ₂ H ₆ N ₂	1-Butanol	5135
	2-Butanol	5137
	Cyclohexane	5139
	Hexane	5140
	o-Hydroxybenzoic Acid	5142
	Maleic Acid	5134
	Maleic Anhydride	5133
	2-Methyl-1-propanol	5136
	2-Methyl-2-propanol	5138
	o-Phthalic Acid	5143
ETHYLENEDIAMMONIUM DIPERCHLORATE		
	C ₂ H ₄ (NH ₃ ClO ₄) ₂	
—, Di(trimethyl) —.	Water	499
	Water	499
ETHYLENEDIAMMONIUM PENTAFLUOROMANGANATE		
	MnC ₂ H ₁₀ N ₂ F ₅	
	Acetic Acid	3924
	Ethanol	3925

ETHYLENE GLYCOL see Glycol

ETHYL ETHER $C_4H_{10}O$

ETHYL SULFIDE $C_4H_{10}S$

—, β, β' -Dichloro —

ETHYL SULFATE, mono-H. $C_2H_6SO_4$

β -Eucaine $C_{15}H_{21}NO_2$

—, Hydrochloride

—, Lactate

EUROPIUM Eu

—, Sulfate $Eu_2(SO_4)_3 \cdot 8H_2O$

FATTY ACID BLENDS

FENCHONE $C_{10}H_{16}O$

FIRE DAMP

FLUORANTHENE $C_{16}H_{10}$

FLUORENE $C_{13}H_{10}$

Anabasine Hydrochloride 5483
 Anabasine Hydroiodide 5484
 Aphillidine Chlorohydrate 5497
 Aphillidine Iodohydrate 5498
 Aphiline Chlorohydrate 5528
 Benzene 5425
 Lupinine Hydrochloride 5464
 Water 1, 1230-1232

Benzine 5370
 Ethanol 4852, 4853
 Kerosine 5371
 Light Oil 5373
 Ligroin 5372
 Water 1148
 Sesame Oil 6416
 Water 1
 Ethanol 5006
 Water 1
 Chloroform 4363
 Ethanol 5032
 Water 1

Water 1
 Benzene 5970
 Ethanol 5113
 Water 1606
 Various Solvents 6540
 Acenaphthene 6346
 Anthracene 6382
 Benzene 5927
 2,7-Dimethylnaphthalene 6356
 Fluorene 6369
 2-Methylnaphthalene 6321
 Naphthalene 6281
 Phenanthrene 6383
 1,2,4,5-Tetramethylbenzene 6299
 Water 1688
 Acetic Acid 4793
 Acetone 5196
 Aniline 6006
 Anthracene 6367
 Benzene 5903
 Carbazole 6335
 Carbon Tetrachloride 4100
 Chlorobenzene 5727
 Dichloroethane 4754
 1,3-Dimethylbenzene 6217
 1,4-Dimethylbenzene 6218
 2,7-Dimethylnaphthalene 6355
 Ethanol 4989
 Ethylbenzene 6219
 Fluoranthene 6370
 Methanol 4593
 2-Methylnaphthalene 6320
 Naphthalene 6279
 Nitrobenzene 5751
 Phenanthrene 6368
 Pyridine 5603
 Sulfur Dioxide 3800

FLUORENE $C_{13}H_{10}$	1,2,4,5-Tetramethylbenzene	6297
—, 2-Bromo-7-amino —.	Toluene	6148
	Benzene	5907
	Chloroform	4336
	Ethanol	4992
—, 2-Bromo-7-nitro —.	Benzene	5902
	Chloroform	4333
	Ethanol	4985
—, 2-Chloro-7-amino —.	Benzene	5906
	Chloroform	4335
	Ethanol	4991
—, 2-Chloro-7-nitro —.	Benzene	5901
	Chloroform	4332
	Ethanol	4984
9-FLUORENOL $C_{13}H_{10}O$		
—, 2-Bromo-7-amino —.	Benzene	5908
	Ethanol	4993
9-FLUORENONE $C_{13}H_8O$		
—, 2-Bromo-7-amino —.	Chloroform	4337
—, 2-Bromo-7-nitro —.	Benzene	5898
	Chloroform	4328
	Ethanol	4981
—, 2-Chloro-7-amino —.	Benzene	5899
	Chloroform	4330
	Ethanol	4982
—, 2-Chloro-7-nitro —.	Benzene	5897
	Chloroform	4334
	Ethanol	4980
9-FLUORENONE OXIME $C_{13}H_9NO$		
—, 2-Bromo-7-nitro —.	Benzene	5900
	Chloroform	4331
	Ethanol	4983
FLUORESCCEIN $C_{20}H_{12}O_5$	Pyridine	5624
	Water	1
FORMALDEHYDE $(CH_2O)_n$	Water	1094
FORMAMIDE CH_3NO	Methanol	4468
	Nitrobenzene	4469
	Water	1100
FORMIC ACID CH_2O_2	Benzene	4428
	2-Propenyl Thiocyanate	4421
	Various Solvents	4456
	Water	1095
FORMIC ACID		
—, Ethyl ester	Tin Tetrachloride	3416
	Water	1161
—, γ -methylbutyl ester	Water	1
—, 2-Methylpropyl ester	Water	1
—, Propyl ester	Water	1,1210
—, Benzoyl —.	Water	1
FUMARAMIDE $C_4H_6N_2O_2$	Water	1
FUMARIC ACID $C_4H_4O_4$	Acetone	5160
	2-Butenenitrile	5338
	Dichloroacetylene	4644
	Various Solvents	5341
	Water	1174
FUMARIC ACID		
—, trans-Dimethyl ester	Ligroin	6018
—, Methyl —.	2-Butenenitrile	5347
	Dichloroacetylene	4645
—, Pentyl —.	Water	1

FURAN C ₄ H ₄ O		
—, Tetrahydro —		
—, 1-methyl —	Water	1257
—, 2-methyl —	Water	1258
FURFURAL C ₅ H ₄ O ₂	Water	1235-1237
—, Methoxy —	Water	1336
GADOLINIUM Gd		
—, Acetate Gd(C ₂ H ₃ O ₂) ₃	Water	1
—, Benzenesulfonate Gd(C ₆ H ₅ SO ₃) ₃		
—, nitro —	Water	1
—, Benzene-2-sulfonate		
—, 1-bromo-4-nitro —	Water	1
—, Bromate Gd(BrO ₃) ₃	Water	872
—, Glycolate Gd(C ₂ H ₃ O ₃) ₃	Water	1
—, Lactate Gd(C ₃ H ₅ O ₃) ₃	Water	875
—, Phosphate Gd(R ₂ PO ₄) ₃		
—, dimethyl —	Water	1,874
—, Sulfate Gd ₂ (SO ₄) ₃	Water	1,873,883
GALACTOSE C ₆ H ₁₂ O ₆	Pyridine	5582
	Water	1
GALLIC ACID C ₇ H ₆ O ₅	Formic Acid	4435
	Glycerol	5295
	Water	1
GALLIC ACID		
—, 3-Monogallate	Glycerol	5310
	Trichloroethylene	4664
GALLIC ALDEHYDE C ₇ H ₆ O	Water	1
GALLIUM Ga	Gallium Bromide	1959
	Gallium Chloride	1958
—, Ammonium Sulfate NH ₄ Ga(SO ₄) ₂	Water	1
—, Cesium Sulfate CsGa(SO ₄) ₂	Water	1
—, Cesium Selenate CsGa(SeO ₄) ₂	Water	1
—, Selenate Ga ₂ (SeO ₄) ₃	Water	1
GELATINE	Water	1689, 1690
GERMANIUM Ge		
—, Dioxide GeO ₂	Water	1,915
—, Disulfide GeS ₂	Ammonia	3407
	Water	1
—, Sulfide GeS	Ammonia	3406
	Water	1
—, Tetrachloride GeCl ₄	Methoxybenzene	3404
	Phenoxybenzene	3405
	Sulfur Dioxide	3403
GLUCOSE C ₆ H ₁₂ O ₆	Methanol	4557
	Various Solvents	6037
	Water	1404
d-GLUCOSE	Pyridine	5581
	Trichloroethylene	4658
	Water	1
GLUCOSE		
—, Ureide	Various Solvents	6173
d-GLUCOSIDE		
—, Methyl — C ₇ H ₁₄ O ₆	Water	1511
d-GLUTAMIC ACID C ₅ H ₉ NO ₄	Acetone	5165
	Ethanol	4863
	Methanol	4541
	Water	1246
d-GLUTAMIC ACID		
—, Hydrochloride	Water	1267
dl-GLUTAMIC ACID	Water	1247

GLUTARIC ACID $C_5H_8O_4$	Benzene	5647
—, Ethyl ester	Water	1,1243,1244
GLYCEROL $C_3H_8O_3$	Water	1
	1,2-Benzenediol	5291
	Carbon Dioxide	4230
	o-Hydroxybenzaldehyde	6586
	o-Methoxyphenol	5297
	m-Toluidine	5299
	o-Toluidine	5300
	Water	1171
GLYCEROL		
—, 2-Butanoate-1,3-dihexadecanoate	Ethanol	5102
—, 1-Decanoate-2,3-dioctadecanoate	Acetone	5224
—, 2-Decanoate-2,3-dioctadecanoate	Acetone	5224
—, 1-Dodecanoate-2,3-dioctadecanoate	Petroleum Ether	6533
—, 2-Dodecanoate-1,3-dioctadecanoate	Petroleum Ether	6533
—, 1-Hexadecanoate-2,3-dioctadecanoate	Acetone	5225
	Ethanol	5109
—, 2-Hexadecanoate-1,3-dioctadecanoate	Acetone	5225
	Ethanol	5109
—, 1-Hexanoate-2,3-dioctadecanoate	Acetone	5224
	Ethanol	5107
—, 2-Hexanoate-1,3-dioctadecanoate	Acetone	5224
	Ethanol	5107
—, 1-Octadecanoate-2-decanoate-3-dodecanoate ...	Various Solvents	6521
—, 1-Octadecanoate-2-decanoate-3-hexadecanoate	Various Solvents	6526
—, 1-Octadecanoate-2-decanoate-3-tetradecanoate	Various Solvents	6523
—, 1-Octadecanoate-2-dodecanoate-3-decanoate	Various Solvents	6520
—, 1-Octadecanoate-2-dodecanoate-3-hexadecanoate	Various Solvents	6529
—, 1-Octadecanoate-2-dodecanoate-3-tetradecanoate	Various Solvents	6527
—, 1-Octadecanoate-2-hexadecanoate-3-decanoate	Various Solvents	6525
—, 1-Octadecanoate-2-hexadecanoate-3-dodecanoate	Various Solvents	6530
—, 1-Octadecanoate-2-hexadecanoate-3-tetradecanoate	Various Solvents	6535
—, 1-Octadecanoate-2-tetradecanoate-3-decanoate	Various Solvents	6524
—, 1-Octadecanoate-2-tetradecanoate-3-dodecanoate	Various Solvents	6528
—, 1-Octadecanoate-2-tetradecanoate-3-hexadecanoate	Various Solvents	6534
—, 1-Tetradecanoate-2,3-dioctadecanoate	Ethanol	5108
—, 2-Tetradecanoate-1,3-dioctadecanoate	Ethanol	5108
—, Triacetate	Benzene	5874
—, Tridecanoate	Benzene	5963
	Carbon Disulfide	4176
	Ethanol	5097
	Ethyl Ether	5521
—, Tridodecanoate	Benzene	5964
	Carbon Disulfide	4177
	Chloroform	4395
	Ethanol	5101
	Ethyl Ether	5524
	Quinoline	6256
—, Trihexadecanoate	Benzene	5966
	Chloroform	4400
	Ethyl Ether	5526
	Glycerol Trioctadecanoate	6532
—, Trinitrate	Trinitrotoluene	5151
	Water	1,1157
—, Trioctadecanoate	Acetone	5226
	Benzene	5967,5968
	Carbon Disulfide	4179
	Carbon Tetrachloride	4140
	Chloroform	4401,4402

GLYCEROL $C_3H_8O_3$		
—, Trioctadecanoate	Ethanol	5110,5111
	Ethyl Acetate	5411
	Ethyl Ether	5527
	Hexane	6054
	Quinoline	6257
	Water	6537
—, Tri-9-octadecenoate	Glycerol Trihexadecanoate	6531
	Glycerol Trioctadecanoate	6536
—, Tritetradecanoate	Benzene	5965
	Carbon Disulfide	4178
	Chloroform	4399
	Ethyl Ether	5525
	Ethanol	4817
	Pyridine	4818
	Quinoline	4819
	Various Solvents	4823
	Water	1141,1142
GLYCINE $C_2H_5NO_2$		
GLYCINE		
—, N-benzoyl —.	Ethanol	4947
	Quinoline	6240
	Various Alcohols	6268
	Water	1
—, N-Formyl	1-Heptanol	5150
	Methanol	4529
	Various Solvents	6167
—, Ureido —.	Benzene	5126
GLYCOL $C_2H_6O_2$	Cyclohexane	5128
	Heptane	5129
	Water	1,1147
GLYCOL		
—, Dihexadecanoate	Ethanol	5114
—, Dinitrate	Water	1136
—, Dioctadecanoate	Ethanol	5114
—, Monohexadecanoate	Ethanol	5114
—, Monooctadecanoate	Ethanol	5114
GLYOXAL PHENYLHYDRAZONE $C_8H_8N_2O$		
—, α -Phenyl —.	Benzene	5920
	Heptane	6181
	Various Solvents	6400
—, β -Phenyl —.	Benzene	5920
	Ethanol	5004
	Heptane	6182
	Various Solvents	6401
GLYOXYLIC ACID $C_2H_2O_3$		
—, Phenyl —.	Water	1
GNOSCOPINE see dl-Narcotine		
GOLD Au	Mercury	1948
—, Ammonium Nitrate $(NH_3)_4Au(NO_3)_3$	Water	1
—, Chloride AuCl	Phosphorus Trichloride	2702
—, Chloride AuCl ₃	Water	1
—, Hydroxide Au(OH) ₃	Water	1
GUAIACOL $C_7H_8O_2$	Various Solvents	6158
—, Carbonate	Various Solvents	6411
GUANIDINE CH_5N_3		
—, 1-Cyano —.	Ethanol	4802
	Ethyl Ether	4803
	Water	1137

GUANIDINE CH_5N_3		
—, Nitro —	Water	1111
—, Nitroamino —	Water	1112
GUANIDINIUM 2,4-DINITRO-1-NAPHTHOL-7-SULFONATE		
$\text{C}_{11}\text{H}_{11}\text{N}_5\text{O}_8\text{S}$	Various Solvents	6324
—, Dimethyl	Various Solvents	6375
—, Methyl	Various Solvents	6359
GUANIDINIUM PENTAFLUOROMANGANATE		
$\text{MnC}_2\text{H}_2\text{N}_6\text{F}_5$	Acetic Acid	3928
	Ethanol	3929
GUANIDINIUM PICRATE $\text{C}_7\text{H}_6\text{N}_6\text{O}_7$	Water	1483
—, Dimethyl —	Water	1
—, Methyl —	Water	1
GUANIDINIUM TETRAFLUOROMANGANATE		
$\text{MnC}_2\text{H}_2\text{N}_6\text{F}_4 \cdot 3\text{H}_2\text{O}$	Acetic Acid	3926
	Ethanol	3927
HAEM —, see Hem —.		
HAFNIUM Hf		
—, Oxide HfO_2	Water	919
HELIANTHINE $\text{C}_{14}\text{H}_{15}\text{N}_3\text{O}_3\text{S}$	Pyridine	5612
	Water	1
HELIANTHINE		
—, Phenolate	Water	1
HELIUM He	Acetone	1752
	Ammonia	1748
	Benzene	1753, 1754
	Cyclohexane	1755, 1756
	Cyclohexanol	1757
	Decane	1766
	2,3-Dimethylhexane	1762
	2,4-Dimethylhexane	1763
	Dodecane	1767
	Ethanol	1751
	Heptane	1759
	Hexane	1758
	Methane	1749
	Methanol	1750
	Methylcyclohexane	6561
	3-Methylheptane	1761
	Nitrogen	1747
	Nonane	1765
	Octane	1760
	Perfluoromethylcyclohexane	6560
	Tetradecane	1768
	2,2,4-Trimethylpentane	1764
	Water	9-14
HEMOGLOBIN	Ethanol	5120
	Pyridine	5642
	Quinoline	6258
	Water	1
HEPTANAL see Enanthaldehyde		
HEPTANE C_7H_{16}	Diethylene Glycol	5539
	β, β -Dipropanenitrile	
	Sulfide	6179
	Ethanol	4924
	Furfural	5559
	Water	1
HEPTANE		
—, 2-Methyl —	Furfural	5562

HEPTANE C_7H_{16}

—, Perfluoro —.

HEPTANEDIOL ACID $C_7H_{12}O_4$

—, Ethyl ester

HEPTANOIC ACID $C_7H_{14}O_2$

—, Ethyl ester

1-HEPTANOL $C_7H_{16}O$

2-HEPTANONE $C_7H_{14}O$

4-HEPTANONE $C_7H_{14}O$

—, 2,6-Dimethyl —.

β -HEXA.AMYLOSE $C_{36}H_{60}O_{30}$

HEXADECANE $C_{16}H_{34}$

HEXADECANOIC ACID $C_{16}H_{32}O_2$

HEXADECANOIC ACID

—, α -1-Ascorbyl ester

—, Benzyl ester

—, Hexadecyl ester

—, Phenacyl ester

—, p-bromo —.

—, p-chloro —.

HEXADECANOIC ANHYDRIDE $C_{32}H_{62}O_3$

1-HEXADECANOL $C_{16}H_{34}O$

HEXAMETHYLENEDIAMINE see 1,6-Hexanediamine

HEXAMETHYLENE GLYCOL see 1,6-Hexanediol

HEXAMETHYLENETETRAMINE $C_6H_{12}N_4$

HEXANE C_6H_{14}

HEXANE

—, Perfluoro —.

—, 2,2,5-Trimethyl —.

HEXANEDIAMINE $C_6H_{16}N_2$

—, Triperoxide

HEXANEDINITRILE $C_6H_8N_2$

HEXANEDIOIC ACID see Adipic Acid

1,6-HEXANEDIOL $C_6H_{14}O_2$

HEXANOIC ACID $C_6H_{12}O_2$

—, Ethyl ester

—, Pentyl —.

—, 2-Ureido —.

Benzene 5789

Chloroform 4296

Heptane 6061

Octane 6062

Tin Tetrachloride 3418

2,2,4-Trimethylpentane 6063

Benzene 5826

Water 1

Water 1

Water 1

Heptaldehyde 6169

Water 1,1512

Water 1,1501-1503

Water 1504,1505

Water 1590

Water 1

Sulfur Dioxide 3808

Carbon Tetrachloride 4116

Ethanol 5015

Methanol 4596

Octadecanoic Acid 6427

Various Alcohols 6428

Various Solvents 6429

Various Solvents 6491

Ethanol 5074

Various Solvents 6509

Ethanol 5079

Ethanol 5078

Ethanol 5077

Ethanol 5096

Sulfur Dioxide 3809

Various Alcohols 6430

Chloroform 4289

Ethanol 4896

Various Solvents 6038

Water 1

Ethanol 4897

Furfural 5555

Nitrobenzene 5744

Sulfur Dioxide 3779

o-Toluidine 6040

m-Toluidine 6040,6041

Hexane 5563

Furfural 5563

Glycol Diacetate 6021

Water 1367

Benzene 5787

Cyclohexane 6026

Heptane 6056

Water 1

Water 1

Water 1

Various Solvents 6171,6172

1-HEXANOL	$C_6H_{14}O$	Water	14 14
2-HEXANOL	$C_6H_{14}O$	Water	14 15
—, 2-Methyl —		Water	15 13
3-HEXANOL	$C_6H_{14}O$	Water	14 15
—, 3-Methyl —		Water	15 13
2-HEXANONE	$C_6H_{12}O$	Water	1390, 1391, 1399
3-HEXANONE	$C_6H_{12}O$	Water	1397
1-HEXENE-3-OL	$C_6H_{12}O$	Water	1386, 1388
4-HEXENE-3-OL	$C_6H_{12}O$	Water	1387, 1389
HEXOSE	$C_6H_{12}O_6$	Ethanol	4893
		Methanol	4556
		Water	1405
HIPPURIC ACID	$C_9H_9NO_3$	Ethanol	4947
		Quinoline	6240
		Various Alcohols	6268
		Water	1
HOLMIUM	Ho		
—, Sulfate	$Ho_2(SO_4)_3$	Water	1,883
HOMATROPINE	$C_{16}H_{21}NO_3$		
—, Hydrobromide		Chloroform	4321
		Ethanol	5014
		Water	1
HYDRASTINE	$C_{21}H_{21}NO_6$	Various Solvents	6482
		Water	1
HYDRASTININE	$C_{11}H_{13}NO_3$		
—, Hydrochloride		Chloroform	4322
		Ethyl Ether	5486
HYDRAZINE	N_2H_4	Acetamide	3544
		Acetic Acid	3543
		Benzoic Acid	3548
		Butanoic Acid	3545
		Diphenylamine	3551
		Dodecanoic Acid	3552
		Hexadecanoic Acid	3553
		Pentanoic Acid	3546
		Phenol	3547
		Salicylic Acid	3549
		Thymol	3550
		Urea	3542
HYDRAZINE			
—, Nitrate		Water	958, 959
—, Perchlorate	$N_2H_4(HClO_4)_2$	Water	1
—, Phenyl —	$C_6H_5N_2$	Water	1368, 1369
— —, hellanthate		Water	1
—, Sulfate	$N_2H_6SO_4$	Water	960
—, Sulfate	$(N_2H_5)_2SO_4$	Water	961
—, Trinitro- <i>m</i> -cresylate		Water	1494
HYDROACETNAPHTHONE	$C_{12}H_{14}O$	Water	1621
HYDROBENZAMIDE	$C_{21}H_{18}N_2$	Ethanol	5059
		Quinoline	6254
HYDROBENZOIN	$C_{14}H_{14}O_2$	Carbon Tetrachloride	4112
		Chloroform	4350
HYDROGEN	H_2	Acetic Acid	1709
		Acetone	1713
		Ammonia	1696, 1697
		Benzene	1274-1278
		Butane	1718, 1719
		Carbon Tetrachloride	1702
		Chlorobenzene	1723
		Chloroform	1703
		Cracking Petrol	1741

HYDROGEN H₂	Cyclohexane	1729-1731
	Diborane	6557
	Dichloroethane	1710
	Dimethylbenzene	1736, 1737
	Ethanol	1711, 1712
	Ethyl Acetate	1717
	Ethylbenzene	1738
	Ethyl Ether	1720, 1721
	Heavy Solvent	1743
	Hexane	1732
	Hydrocarbon Blend	1744, 1745
	Iron	1699
	Kerosene	1742
	Methane	1704
	Methanol	1705-1708
	Methyl Acetate	1714
	Methylcyclohexane	1734
	Nickel	1700
	Nitrogen	1695
	Octane	1739
	Pentane	1722
	Polystyrene	1735
	Propane	1715
	2-Propanol	1716
	Toluene	1733
	Trimethylbenzene	1740
	Various Solvents	1746
	Water	2-8

HYDROGEN

—, Bromide	Benzene	3909
	Decane	3912
	Hexane	3910
	Nitrobenzene	3908
	Octane	3911
	Water	1002
—, Chloride	Acetic Acid	3852
	Acetone	3856
	Benzene	3884, 3885
	Benzyl Acetate	3898
	Benzyl Alcohol	3892
	Butanoic Acid	3868
	1-Butanol	3872
	2-Butanol	3874
	Butyl Acetate	3888
	2-Chloroethyl Acetate	3866
	Cyclohexane	3886
	Dioxane	3871
	Ethanol	3853, 3854
	Ethyl Acetate	3870
	Ethyl Bromoacetate	3867
	Ethyl Butanoate	3887
	Ethyl Chloroformate	3855
	Ethyl Dichloroacetate	3864
	Ethyl Ether	3875-3877
	Ethyl Formate	3859
	Ethyl Propanoate	3879
	Ethyl Trichloroacetate	3862
	Formic Acid	3847
	Heptane	3893
	1-Heptanol	3894

HYDROGEN H₂

—, Chloride

Isopropyl Acetate	3881
Methanol	3848,3849
Methyl Acetate	3858
3-Methylbutanoic Acid	3878
2-Methyl-1-butanol	3883
2-Methylpropanoic Acid	3869
2-Methyl-1-propanol	3873
α-Methylpropyl Acetate	3890
β-Methylpropyl Acetate	3889
Monochloroacetic Acid	3851
Octanol	3897
Octyl Acetate	3901
3-Pentanol	3882
Phenyl Acetate	3895
2-Phenylethanol	3896
3-Phenyl-1-propanol	3899
Propanoic Acid	3857
1-Propanol	3860
2-Propanol	3861
Propyl Acetate	3880
Propyl Chloroformate	3865
Toluene	3891
Trichloroacetic Acid	3850
2,2,2-Trichloroethyl Acetate	

3863

3,5,5-Trimethylhexanol 3900

Various Solvents 3902-3904

Water 1,995-998

Water 1005

Benzene 3845

Butane 3843

2-Methylpropane 3844

Octane 3846

Propane 3842

Water 994

Water 1003

Methanol 2165

Cyclohexanol 3591

Water 988,6549

Cyclohexane 3827

Ethanol 3826

Sulfur 1993

Various Solvents 3828

Water 970-972

Water 48

Acetone 5169

Benzene 5766

1,3-Benzenediol 5981

Carbon Tetrachloride 4062

Ethanol 4881

Ethyl Ether 5426

Formic Acid 4430

Heavy Water 5980

Sulfur Dioxide 3773

Water 1331

—, Cyanide HCN

—, Fluoride

—, Iodide HI

—, Peroxide H₂O₂

—, Phosphide H₃P

—, Selenide H₂Se

—, Sulfide H₂S

HYDROQUINONE

HYDROQUINONE

—, 2,5-Dimethyl —.

HYDROXYLAMINE NH₂OH

Ethanol 4933

Various Solvents 3539

HYDROXYLAMMONIUM $\text{NH}_3\text{O.HX}$

—, Chloride

—, 2,4-Dinitro-1-naphthol-7-sulfonate

HYOSCINE $\text{C}_{17}\text{H}_{21}\text{NO}_4$

—, Hydrobromide

HYOSCYAMINE $\text{C}_{17}\text{H}_{23}\text{NO}_3$

—, Hydrobromide

—, Sulfate

di-HYOSCYAMINE see Atropine

HYPOXANTHINE $\text{C}_5\text{H}_4\text{N}_4\text{O}$

—, 2,4-Dinitro-1-naphthol-7-sulfonate

INDENE C_9H_8

INDIGOTIN $\text{C}_{16}\text{H}_{10}\text{O}_2$

INDIUM In

—, Ammonium Sulfate $(\text{NH}_4)_2\text{In}(\text{SO}_4)_4$

—, Arsenide InAs

—, Bromide InBr_3

—, Cesium Sulfate $\text{Cs}_2\text{In}_2(\text{SO}_4)_4$

—, Iodate $\text{In}(\text{IO}_3)_3$

—, Iodide InI_3

INDOLE $\text{C}_8\text{H}_7\text{N}$

INULIN $\text{C}_{36}\text{H}_{60}\text{O}_{30} \cdot \text{H}_2\text{O}$

IODIC ACID HIO_3

IODINE I_2

Ethanol 3541

Methanol 3540

Various Solvents 6290

Various Solvents 6455

Various Solvents 6453

Various Solvents 6454

Various Solvents 6513

Various Solvents 6409

Benzene 5867

Isoquinoline 6238

Formic Acid 4453

Mercury 1960,1961

Water 1

Indium Antimonide 3321

Various Solvents 6580

Water 472

Water 1

Various Solvents 6581

Ethanol 4927

Quinoline 6198

Water 1675

Water 1004

Acetone 2128

Arsenic Trichloride 2096

Benzene 2136-2138

Carbon Dioxide 2098

Carbon Disulfide 2099-2102

Carbon Tetrachloride 2103-2106

Chloroethene 2120

Chloroform 2107-2109

Cyclohexane 2139

Dibromoethane 2125,2126

1,1-Dichloroethane 2121,2122

1,2-Dichloroethane 2123,2124

Dichloroethylene 2117,2118

Dichlorohexafluorocyclo-

butane 2129

Dichloromethane 2111

Dihydroperfluoro-octane 2148

1,4-Dimethylbenzene 2149

2,2-Dimethylbutane 2141

Ethanol 2127

Ethyl Ether 2130-2132

Heptane 2147

Hexane 2140

Hydroperfluoroheptane 2146

2-Methylbutane 2134

Nitrobenzene 2135

Octamethylcyclotetra-

siloxane 2152

Pentachloroethane 2116

Pentane 2133

Perfluoroheptane 2143-2145,6572

Perfluoromethylcyclohexane

2142

Silicon Tetrachloride 2094

IODINE I ₂	Tellurium Tetrachloride	2097
	Tetrachloroethane	2119
	Tetrachloroethylene	2113
	Tetraethoxysilane	2151
	Tetraperfluorobutyl	
	Ether of Pentaerythritol	2154
	Titanium Tetrachloride	2095
	Tribromomethane	2110
	Trichloroethylene	2114, 2115
	Trichlorotrifluoro-	
	ethane	2112
	1,3,5-Trimethylbenzene	2153
	2,2,4-Trimethylpentane	2150
	Various Solvents	2155-2157
	Water	47
IODINE		
—, Chloride	Acetic Acid	3906
	Carbon Tetrachloride	3905
IODOEOSIN C ₂₀ H ₆ L ₄ N ₈ O ₅	Pyridine	5623
	Water	1
IODOFORM CHI ₃	Naphthalene	4411
	Various Solvents	4412
di-iodogorgoic acid C ₉ H ₇ NO ₃ I ₂	Water	1574
IODOL see Pyrrole, 2,3,4,5-tetraiodo—.		
IRIDIUM Ir		
Aquo-pentamminoiridium Ir(NH ₃) ₅ (OH) ₂ X		
—, Bromide	Water	1056
—, Chloride	Water	1056
—, Nitrate	Water	1056
—, Oxide IrO ₂	Water	1
Pentamminoiridium Ir(NH ₃) ₅ X		
—, Bromide	Water	1056
—, Bromonitrate	Water	1056
—, Chloride	Water	1056
—, Chlorodibromide	Water	1056
—, Chlorodilodide	Water	1056
—, Chlorodinitrate	Water	1056
—, Chlorosulfate	Water	1056
—, Nitrate	Water	1056
IRON Fe	Mercury	2160
	Tin	2161
—, Ammonium Oxalate Fe(NH ₄) ₂ C ₄ O ₆	Methanol	3950.
—, Ammonium Oxalate Fe(NH ₄) ₂ C ₄ O ₁₂	Methanol	3951
—, Ammonium Sulfate (NH ₄) ₂ Fe(SO ₄) ₂	Water	1,559
—, Benzenesulfonate Fe(C ₆ H ₅ SO ₃) ₂	Water	1
—, Bromide FeBr ₂	Pyridine	3945
	Water	1017
—, Carbonate FeCO ₃	Water	1
—, Cesium Sulfate Cs ₂ Fe(SO ₄) ₂	Water	473
—, Cesium Sulfate Cs ₂ Fe ₂ (SO ₄) ₄	Water	472
—, Chloride FeCl ₂	Water	1,1015
—, Chloride FeCl ₃	Acetone	3943
	Ethanol	3942
	Linolin	3944
	Methanol	3941
	Water	1016
—, N,N-Diethylaminomethanethionthiolate		
Fe(C ₂ H ₅ NS ₂) ₂	Various Solvents	3953
—, Dihydroxide Formate Fe ₃ (OH) ₂ (HCO ₂) ₇	Ethanol	3952
	Water	1024

IRON Fe		
—, Fluoride FeF_2	Hydrogen Fluoride	3939
—, Fluoride FeF_3	Hydrogen Fluoride	3940
	Water	1
	Water	1
—, Helianthate $\text{Fe}(\text{C}_{14}\text{H}_{14}\text{N}_3\text{SO}_3)$		
—, Hexa. antipyrine $\text{Fe}(\text{C}_{11}\text{H}_{12}\text{N}_2\text{O})_6\text{X}_3$		
—, —, dichromate	Water	1
—, —, perchlorate	Water	1
—, —, tetrafluoborate	Water	1
—, Hydroxide $\text{Fe}(\text{OH})_2$	Water	1
—, Iodate $\text{Fe}(\text{IO}_3)_3$	Water	1
—, Naphthalene-2-sulfonate $\text{Fe}(\text{C}_{10}\text{H}_7\text{SO}_3)_2$	Water	1
—, Nitrate $\text{Fe}(\text{NO}_3)_2$	Water	1020
—, Nitrate $\text{Fe}(\text{NO}_3)_3$	Water	1021
—, Nitroso- β -phenylhydroxylamine $\text{Fe}[\text{C}_6\text{H}_5\text{N}(\text{NO})\text{O}]_2$	Water	1
—, 9-Octadecenoate $\text{Fe}(\text{C}_{18}\text{H}_{33}\text{O}_2)_3$	Glycerol	3954
—, Oxalate FeC_2O_4	Water	1
—, Perchlorate $\text{Fe}(\text{ClO}_4)_2$	Ethanol	3946
	Water	1018, 1019
—, Phenanthrene-2-sulfonate $\text{Fe}(\text{C}_{14}\text{H}_9\text{SO}_3)_2$	Water	1
—, Phenanthrene-3-sulfonate	Water	1
—, Phenanthrene-10-sulfonate	Water	1
—, Potassium Sulfate $\text{K}_2\text{Fe}(\text{SO}_4)_2$	Water	347
—, Rubidium Sulfate $\text{Rb}_2\text{Fe}(\text{SO}_4)_2$	Water	413
—, Rubidium Sulfate $\text{RbFe}(\text{SO}_4)_2$	Water	411, 414
—, Sulfate FeSO_4	Ethylene Glycol	3948
	Water	1022, 1023
—, Sulfate $\text{Fe}_2(\text{SO}_4)_3$	Ethanol	3949
—, Sulfide FeS	Hydrazine	3947
	Water	1
—, Sulfide Fe_3S_3	Water	1
ISOAMYL ALCOHOL see 1-Butanol, 3-Methyl —.		
ISOBUTANE see Propane, 2-methyl —.		
ISOBUTENE see Propylene, 2-methyl —.		
ISOBUTYLAMINE see Propylamine, 2-methyl —.		
ISOBUTYRALDEHYDE see Propionaldehyde, 2-Methyl —.		
ISOCOLCHININE $\text{C}_{22}\text{H}_{25}\text{NO}_6$		
—, Hydroiodide	Water	1
ISOINOSITOL $\text{C}_6\text{H}_{12}\text{O}_6$	Water	1
di-ISOLEUCINE $\text{C}_6\text{H}_{13}\text{NO}_2$	Water	1410, 1411
d-ISOLEUCINE	Water	1409
ISONICOTINIC ACID see 4-Pyridinecarboxylic Acid		
ISO OCTANE see Heptane, 2-methyl —.		
ISOPHORONE $\text{C}_9\text{H}_{16}\text{O}$	Water	1587
ISOQUINOLINE $\text{C}_9\text{H}_7\text{N}$	Benzene	5864
	Coumarone	6190
ISOSUCCINIC ACID see Malonic, methyl —.		
ISOTHIOCYANIC ACID		
—, 2-Propenyl ester $\text{C}_4\text{H}_5\text{NS}$	Sulfur	2020, 2021
ISOVALERIC ACID see Butanoic Acid, 3-methyl —.		
KERATIN		
	Pyridine	5640
	Water	1
KETENE $\text{C}_2\text{H}_2\text{O}$	Acetone	4696
KRYPTON Kr	Benzene	1902
	Cyclohexane	1903
	Decane	1913
	Dimethylbenzene	1906
	2,3-Dimethylhexane	1909
	2,4-Dimethylhexane	1910
	Dodecane	1914

KRYPTON Kr	Heptane	1905
	Hexane	1904
	Methylcyclohexane	6566
	2-Methylheptane	1908
	Nonane	1912
	Octane	1907
	Perfluoromethylcyclohexane	6567
	Tetradecane	1915
	2,2,4-Trimethylpentane	1911
	Various Solvents	1916,1917
	Water	34,35
LACTIC ACID $C_3H_5O_3$		
—, Butyl ester	Water	1510
LACTOSE $C_{12}H_{22}O_{11}$	Ethanol	4977
	Quinoline	6248
α -LACTOSE	Water	1623,1624
β -LACTOSE	Water	1625
	Water	1626
LANTHANUM La	Mercury	1962,6571
—, Acetate $LaC_6H_5O_6$	Methanol	3325
—, Ammonium Nitrate $(NH_4)_2La(NO_3)_3$	Water	1
—, Benzenesulfonate $La(C_6H_5SO_3)_3$	Water	844
— —, 3-bromo —.	Water	844
— —, 6-bromo-3-nitro —.	Water	844
— —, 3-chloro —.	Water	844
— —, 6-chloro-3-nitro —.	Water	844
— —, 3-nitro —.	Water	844
—, Bromate $La(BrO_3)_3$	Water	840
—, Chromate $La_2(CrO_4)_3$	Water	1
—, Cobalt Nitrate $La_2Co_3(NO_3)_{12}$	Nitric Acid	3323
—, Fluoride LaF_3	Bromine Trifluoride	2233
—, Glycolate $La(C_2H_3O_3)_3$	Water	1
—, Hexa.antipyrine $La(C_4H_{12}N_2O)_6X_3$		
— —, iodide	Water	1
— —, perchlorate	Water	1
—, Iodate $La(IO_3)_3$	Water	1
—, Lactate $La(C_3H_5O_3)_3$	Water	1
—, Magnesium Nitrate $La_2Mg_3(NO_3)_{12}$	Water	599
—, Manganese Nitrate $La_2Mn_3(NO_3)_{12}$	Water	1
—, Molybdate $La_2(MoO_4)_3$	Water	1
—, Naphthalene-1-sulfonate $La(C_{10}H_7SO_3)_3$	Water	844
— —, 5-nitro —.	Water	844
— —, 6-nitro —.	Water	844
— —, 7-nitro —.	Water	844
—, Nickel Nitrate $La_2Ni_3(NO_3)_{12}$	Nitric Acid	3324
—, Nitrate $La(NO_3)_3$	Ethyl Ether	3322
	Water	841
—, Oxalate $La_2(C_2O_4)_3$	Water	1
—, Oxide La_2O_3	Water	1
—, Phosphate $La_2(K_2PO_4)_6$		
— —, dimethyl —.	Water	1
—, Selenate $La_2(SeO_4)_3$	Water	843
—, Sulfate $La_2(SO_4)_3$	Water	842,853
—, Tartrate $La_2(C_4H_4O_6)_3$	Water	1
—, Tungstate $La_2(WO_4)_3$	Water	1
—, Zinc Nitrate $Zn_3La_2(NO_3)_{12}$	Water	1
LAURIC ACID see Dodecanoic Acid		
LEAD Pb	Blood serum	3469
	Lead Chloride	1969
	Lead Iodide	1970

LEAD Pb	Mercury	1968
—, Acetate $Pb(C_2H_3O_2)_2$	Acetic Acid	3476,3477
	Formic Acid	3474
	Glycerol	3478
	Lanoline	3479
	Methanol	3475
	Water	940
—, Adipate $C_6H_9O_4Pb$		
—, β -methyl —.	Water	1
—, Ammonium Hexacyanocobaltate $NH_4PbCo(CN)_6$	Water	1
—, Ammonium Sulfate $(NH_4)_2Pb(SO_4)_2$	Water	556
—, Benzenesulfonate $Pb(C_6H_5SO_3)_2$		
—, 3-chloro —.	Water	1
—, 4-chloro —.	Water	1
—, 2,5-diiodo —.	Water	1
—, Benzoate $Pb(C_7H_5O_2)_2$	Acetone	3486
	Methanol	3485
	Water	943,944
—, 4-chloro —.	Water	943
—, 4-hydroxy —.	Water	943
—, 4-methoxy —.	Water	943
—, 4-nitro —.	Water	943
—, Borate $Pb(BO_2)_2$	Hydrazine	3461
—, Bromide $PbBr$	Water	1
—, Bromide $PbBr_2$	Pyridine	3451
	Sulfur Dioxide	3450
	Water	925,926
—, Carbonate $PbCO_3$	Blood serum	3469
	Water	1
—, Chaulmoorgrate $Pb(C_{18}H_{31}O_2)_2$	Various Solvents	3498
—, Chlorate $Pb(ClO_3)_2$	Water	1
—, Chloride $PbCl$	Water	1
—, Chloride $PbCl_2$	Lead Bromide	3447
	Pyridine	3449
	Sulfur Dioxide	3448
	Water	922-924
—, Chloride Oxide $PbCl_2.PbO$	Water	1
—, Chloride.3.Oxide $PbCl_2.3PbO$	Water	1
—, Chlorite $Pb(ClO_2)_2$	Water	930
—, Chlorofluoride $PbFCl$	Water	921
—, Chromate $PbCrO_4$	Water	1
—, Cinnamate $Pb(C_9H_7O_2)_2$	Water	1
—, Citrate $Pb_3(C_6H_5O_7)_2$	Ethanol	3482
	Water	1
—, Cyanide $Pb(CN)_2$	Sulfur Dioxide	3457
—, Decanoate $Pb(C_{10}H_{19}O_2)_2$	Ethyl Ether	1971
	Various Solvents	3484
	Various Solvents	3483
	Various Solvents	3491
	Various Solvents	3481
—, Diethylthioithionocarbamate $Pb(C_5H_{10}NS_2)_2$	Ethyl Ether	3502
—, cis-13-Docosenoate $Pb(C_{22}H_{41}O_2)_2$	Ethyl Ether	1971
—, Dodecanoate $Pb(C_{12}H_{23}O_2)_2$	Various Solvents	3493
	Water	1
—, Fluometsphosphate $PbPO_3F$	Hydrazine	3444
—, Fluoride PbF_2	Hydrogen Fluoride	3446
	Sulfur Dioxide	3445
	Water	1,920
—, Formate $Pb(CHO_2)_2$	Formic Acid	3470

LEAD Pb

—, Fumarate $PbC_4H_2O_4$	Water	1
—, Gluconate $Pb(C_6H_{11}O_7)_2$	Water	1
—, Helianthate $Pb(C_{14}H_{14}N_3SO_3)_2$	Water	1
—, Hexa. antipyrine $Pb(C_{11}H_{12}N_2O)_6 \times 2$		
— —, perchlorate	Water	1
— —, tetrafluoborate	Water	1
—, Hexacyanocobaltate $Pb_3[Co(CN)_6]_2$	Water	1
—, Hexacyanoferrate $Pb_3[Fe(CN)_6]_2$	Water	1
—, Hexadecanoate $Pb(C_{16}H_{31}O_2)_2$	Ethyl Ether	1971
	Turpentine	3496
	Various Solvents	3497
	Water	935
—, Hexafluosilicate $PbSiF_6$	Ethyl Ether	1971
—, Hexanoate $Pb(C_6H_{11}O_2)_2$	Various Solvents	3495
—, Hydnocarpate $Pb(C_{18}H_{27}O_2)_2$	Water	1,931
—, Iodate $Pb(IO_3)_2$	Formic Acid	3454
—, Iodide PbI_2	Hydrazine	3452
	Pyridine	3455
	Sulfur Dioxide	3453
	Various Solvents	3456
	Water	927-929
—, Lignocerate $Pb(C_{24}H_{47}O_2)_2$	Ethyl Ether	3503
—, Malate $PbC_4H_4O_5$	Ethanol	3472
	Water	1,937
—, Maleate $PbC_4H_2O_4$	Water	1
—, Methanedisulfonate $PbCH_2S_2O_6$	Water	1
—, Naphthalene-1-sulfonate $Pb(C_{10}H_7SO_3)_2$	Water	1
— —, 5-chloro —.	Water	1
—, Naphthalene-2-sulfonate	Water	1
— —, 6-hydroxy —.	Water	1
—, Naphthalene-2,6-disulfonate $PbC_{20}H_6(SO_3)_2$	Water	941
—, Naphthalene-2,7-disulfonate	Water	942
—, 2-Naphthylamine-5,7-disulfonate $PbC_{10}H_7NS_2O_6$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, Nitrate $Pb(NO_3)_2$	Ethanol	3464
	Hydrazine	3462
	Methanol	3463
	Pyridine	3465
	Water	1,932
—, Nitroso- β -phenyl-hydroxylamine $Pb(C_6H_5N_2O_2)_2$	Water	1
—, Nonoate $Pb(C_9H_{17}O_2)_2$	Ethyl Ether	1971
—, Octadecanoate $Pb(C_{18}H_{35}O_2)_2$	Ethyl Ether	1971, 3500
	Various Solvents	3501
—, 9-Octadecenoate $Pb(C_{18}H_{33}O_2)_2$	Ethyl Ether	3499
—, Octanoate $Pb(C_8H_{15}O_2)_2$	Ethyl Ether	1971
—, Oxalate PbC_2O_4	Water	1
—, Oxide PbO	Blood Serum	3469
	Hydrazine	3443
	Water	1
—, Perchlorate $Pb(ClO_4)_2$	2-Ethoxyethanol	3459
	Furfural	3460
	Water	1
	Water	1
—, Phenanthrene-2-sulfonate $Pb(C_{14}H_9SO_3)_2$	Benzene	5971
—, Phosphonites $(R_2PO_2)_2Pb$	Ethanol	5112
— —, bis-p-chlorophenyl —.	Water	1678
	Benzene	5971
— —, dibutyl —.	Ethanol	5112

LEAD Pb

—, Phosphonites $(R_2PO_2)_2Pb$	Water	1678
—, dibutyl —	Benzene	5971
—, di-n-decyl —	Ethanol	5112
	Water	1678
—, diphenyl —	Benzene	5971
	Ethanol	5112
	Water	1678
—, Potassium Hexacyanocobaltate $KPbCo(CN)_6$	Water	1
—, Potassium Hexacyanoferrate $KPbFe(CN)_6$	Water	1
—, Succinate $PbC_4H_4O_4$	Ethanol	3471
	Water	1,936
—, Styphnate $PbC_6HN_3O_3$	Glycol Diacetate	3480
—, Sulfate $PbSO_4$	Blood Serum	3469
	Water	933,934
—, Sulfate. Oxide $PbSO_4.PbO$	Water	1
—, Sulfate. 3-Oxide $PbSO_4.3PbO$	Water	1
—, Sulfide PbS	Water	1
—, Tartrate $PbC_4H_4O_6$	Ethanol	3473
	Water	938,939
Tetracyclohexyllead $(C_6H_{11})_4Pb$	Various Solvents	3492
—, tetradecanoate $Pb(C_{14}H_{27}O_2)_2$	Various Solvents	3494
Tetraphenyllead $(C_6H_5)_4Pb$	Various Solvents	3490
—, Thiocyanate $Pb(CNS)_2$	Sulfur Dioxide	3458
	Water	1
Tricyclohexyllead $(C_6H_{11})_3Pb$	Benzene	3489
	Chloroform	3487
	Ethanol	3488
—, Fluoride	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	945
Triethyllead $(C_2H_5)_3Pb$	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	945
Triisoamyllead $(C_5H_{11})_3Pb$		
—, Fluoride	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	945
Triisobutyllead $(C_4H_9)_3Pb$		
—, Fluoride	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	1,945
Trimethyllead $(CH_3)_3Pb$		
—, Fluoride	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	945
Triphenyllead $(C_6H_5)_3Pb$		
—, Fluoride	Benzene	3468
	Ethanol	3467
	Methanol	3466
	Water	945
Tripropyllead $(C_3H_7)_3Pb$		
—, Fluoride	Benzene	3468
	Ethanol	3467

LEAD Pb

Tripropyllead (C₃H₇)₃Pb
 —, Fluoride

LEUCINE C₆H₁₃NO₂
 l-LEUCINE

LEVULINIC ACID see Pentanoic Acid, 4-oxo—.

LIGNOCERIC ACID C₂₄H₄₈O₂
 —, Phenacyl ester
 — —, p-bromo —.
 — —, p-chloro —.

LIGROIN

LINOLEIC ACID see 9, 12-Octadecadienoic Acid

LITHIUM Li
 —, Acetate LiC₂H₃O₂

—, Aluminate, mono — H. LiH(AlO₂)₂·5H₂O

—, Ammonium Sulfate NH₄LiSO₄

—, Azide LiN₃

—, Benzoate LiC₇H₅O₂

— —, o-hydroxy —.

—, Borohydride LiBH₄

—, Bromate LiBrO₃

—, Bromide LiBr

—, Carbonate Li₂CO₃

—, Chlorate LiClO₃

—, Chloride LiCl

Methanol	3466
Water	945
Butanoic Acid	5384
Water	1408
Ethanol	5095
Ethanol	5094
Ethanol	5093
Water	1
Ammonia	1935
Acetic Acid	2218
Methanol	2217
Water	85
Water	80
Water	79
Water	64
Methanol	2219
Water	87
Propanol	2220
Water	88-90
Ethyl Ether	6573
Water	59
Acetone	2192
Acetonitrile	2705
Benzaldehyde	2195
Ethanol	2190
Formic Acid	2703
Glycol	2191
4-Hydroxy-4-methyl- 2-pentanone	2194
Methanol	2704
4-Methyl-3-penten- 2-one	2193
Nitromethane	2196
Sulfur Dioxide	2189
Water	53,54
Water	62
Water	58
Acetone	2177
Acetonitrile	2705
Alcohols	2188
Ammonia	2169,2170
Butanol	2181
Ethanol	2176
Formic Acid	2703
Glycerol	2180
Hydrazine	2171
4-Hydroxy-4-methyl- 2-pentanone	2186
Methanol	2174,2175,2704
Pentanol	2184,2185
1-Propanol	2178,2179
Pyridine	2182,2183
Quinoline	2187
Selenium Oxychloride	2173
Sulfur Dioxide	2172

LITHIUM Li

—, Chloride	LiCl	Water	50-52
—, Chromate	LiCrO ₄	Water	1
—, Citrate	Li ₃ C ₆ H ₅ O ₇	Water	1
—, Dichromate	Li ₂ Cr ₂ O ₇	Water	1
—, Dodecanoate	LiC ₁₂ H ₂₃ O ₂	Ethanol	2225
		Various Solvents	2221
		Acetone	2168
		Bromine Trifluoride	2233
—, Fluoride	LiF	Hydrogen Fluoride	2166, 2167
		Water	1
—, Formate	LiCHO ₂	Formic Acid	2215, 2216
		Water	83, 84
—, Germanate	LiGeO ₃	Water	1
—, Hexadecanoate	LiC ₁₆ H ₃₁ O ₂	Ethanol	2225
		Various Solvents	2223
		Water	91
—, Hexafluogermanate	Li ₂ GeF ₆	Water	81
—, Hexafluotitanate	Li ₂ TiF ₆	Ethanol	2214
—, Hexahydroxostannate	Li ₂ Sn(OH) ₆	Water	63
—, Hippurate	LiC ₉ H ₅ NO ₃	Water	1
—, Hydroxide	LiOH	Water	1, 49
—, Hypophosphate	Li ₄ P ₂ O ₆	Water	1
—, Hypophosphite	Li ₂ PO ₃	Water	68
—, Iodate	LiIO ₃	Water	1
—, Iodide	LiI	Acetone	2200
		Acetonitrile	2705
		Ethanol	2198
		Formic Acid	2703
		Furfural	2202
		Glycol	2199
		Methanol	2197, 2704
		Pentanol	2203
		Propanol	2201
		Water	1, 55, 56
—, Iodomercurate	Li ₂ HgI ₄	Water	1
—, Metaborate	LiBO ₂	Water	61
—, Methanedisulfonate	Li ₂ CH ₂ O ₆ S ₂	Water	1
—, Molybdate	Li ₂ MoO ₄	Water	73
—, Niobium Oxide	LiNbO ₃	Water	6543
—, Nitrate	LiNO ₃	Acetic Acid	2209
		Acetone	2210
		Acetonitrile	2208
		Ammonia	2206
		3-Methyl-1-butanol	2212
		Pyridine	2211
		Urea	2207
		Water	67
—, Nitrite	LiNO ₂	Water	65, 66
—, Octadecanoate	LiC ₁₈ H ₃₅ O ₂	Ethanol	2225
		Various Solvents	2224
		Water	91
—, 9-Octadecenoate	LiC ₁₈ H ₃₃ O ₂	Ethanol	2225
		Water	91
—, Perborate	Li ₂ B ₂ O ₅	Water	1
—, Perchlorate	LiClO ₄	Various Solvents	2204, 2205
		Water	60
—, Permanganate	LiMnO ₄	Water	1
—, Phosphate	Li ₃ PO ₄	Water	1
—, di-H.	LiH ₂ PO ₄	Water	1

LITHIUM Li

—, Phosphite, mono-H. Li_2HP_3	Water	69
—, Potassium Sulfate $\text{Li}_2\text{K}_2(\text{SO}_4)_2$	Water	77
—, Potassium Tartrate $\text{LiKC}_4\text{H}_4\text{O}_6$	Water	1
—, Selenite Li_2SeO_3	Water	72
—, Sodium Sulfate $\text{Li}_2\text{Na}_2(\text{SO}_4)_2$	Water	76
—, Sodium Tartrate $\text{LiNaC}_4\text{H}_4\text{O}_6$	Water	1
—, Succinate $\text{Li}_2\text{C}_4\text{H}_4\text{O}_4$		
—, tetrahydroxy —.	Water	1
—, Sulfate Li_2SO_4	Sulfuric Acid	2213
	Water	71
—, Tantalum Oxide LiTaO_3	Water	6542
—, Tartrate $\text{Li}_2\text{C}_4\text{H}_4\text{O}_6$	Water	86
—, Tetraborate $\text{Li}_2\text{B}_4\text{O}_7$	Water	6541
—, Tetrachloroaurate LiAuCl_4	Water	74,78
—, Tetracyanoplatinate $\text{Li}_2\text{Pt}(\text{CN})_4$	Water	775
—, Tetradecanoate $\text{LiC}_{14}\text{H}_{27}\text{O}_2$	Ethanol	2225
	Various Solvents	2222
	Water	91
—, Tetrathioantimonate Li_3SbS_4	Water	82
—, Thiocyanate LiCNS	Water	57
—, Vanadate Li_3VO_4	Water	70

LUBRICATING OIL

Carbon Dioxide 4256

LUTETIUM Lu

—, Sulfate $\text{Lu}_2(\text{SO}_4)_3$	Water	1
-----------------------------------------------	-------	---

LUTIDINE see Pyridine, dimethyl—,

MAGNESIUM Mg

—, Acetate $\text{MgC}_4\text{H}_6\text{O}_4$	Mercury	1949
	Methanol	2877
	Water	605
—, Ammonium Arsenate $\text{NH}_4\text{MgAsO}_4$	Water	541
—, Ammonium Hexacyanoferrate $(\text{NH}_4)_2\text{MgFe}(\text{CN})_6$	Water	1
—, Ammonium Nitrate $(\text{NH}_4)_2\text{Mg}(\text{NO}_3)_4$	Water	1
—, Ammonium Phosphate NH_4MgPO_4	Water	540
—, Ammonium Sulfate $(\text{NH}_4)_2\text{Mg}(\text{SO}_4)_2$	Water	542
—, Anthracene-1-sulfonate $\text{Mg}(\text{C}_{14}\text{H}_9\text{SO}_3)_2$	Water	1
—, Anthracene-2-sulfonate	Water	1
—, Anthraquinone-1,5-disulfonate $\text{MgC}_{14}\text{H}_6\text{O}_2(\text{SO}_3)_2$	Water	610
—, Anthraquinone-1,6-disulfonate	Water	610
—, Anthraquinone-1,7-disulfonate	Water	610
—, Anthraquinone-1,8-disulfonate	Water	610
—, Anthraquinone-2,6-disulfonate	Water	610
—, Anthraquinone-2,7-disulfonate	Water	610
—, Anthraquinone-1-sulfonate $\text{Mg}(\text{C}_{14}\text{H}_7\text{O}_2\text{SO}_3)_2$		
—, 5-chloro —.	Water	610
—, Anthraquinone-2-sulfonate	Water	610
—, Benzene sulfonate $\text{Mg}(\text{C}_6\text{H}_5\text{SO}_3)_2$	Water	608
—, Benzoate $\text{Mg}(\text{C}_7\text{H}_5\text{O}_2)_2$	Acetone	2881
	Methanol	2880
	Water	1
—, 2-hydroxy —.	Ethanol	2882
	Water	1
—, 4-nitro —.	Water	1
—, Bromate $\text{Mg}(\text{BrO}_3)_2$	Water	1
—, Bromide MgBr_2	Acetonitrile	2823
	Ammonia	2822
	Ethyl Ether	2824
	Pyridine	2825
	Water	586
—, 6 (acetamide)	Acetamide	2830
—, 6 (acetanilide)	Acetanilide	2847

MAGNESIUM Mg

—, Bromide $MgBr_2$	Acetic Anhydride	2838
—, 6 (acetic anhydride)	Acetone	2832
—, 3 (acetone)	Aniline	2844
—, 4 (aniline)	Benzaldehyde	2846
—, 3 (benzaldehyde)	2-Methyl-2-propanol	2841
—, 4 (t-butyl alcoholate)	Ethyl Ether	2840
—, dietherate	Dimethoxymethane	2837
—, 2 (dimethoxymethane)	Ethanol	2831
—, 6 (ethyl alcoholate)	Ethyl Carbamate	2834
—, 4 (ethyl carbamate)	Ethyl Formate	2833
—, 2 (ethyl formate)	Acetic Acid	2829
—, 6 (hydrogen acetate)	Formic Acid	2826
—, 6 (hydrogen formate)	2-Butanol	2842
—, 6 (isobutyl alcoholate)	3-Methyl-1-butanol	2843
—, 6 (isopentyl alcoholate)	2-Propanol	2835
—, 4 (isopropyl alcoholate)	Methanol	2827
—, 6 (methyl alcoholate)	Ethyl Ether	2839
—, monoetherate	Phenylhydrazine	2845
—, 6 (phenylhydrazine)	1-Propanol	2836
—, 6 (propyl alcoholate)	Urea	2828
—, 4 (urea)	Ethanol	2884
—, Camphorcarbonate $MgC_{22}H_{30}O_6$	Methanol	2883
—, Cerium Nitrate $MgCe_2(NO_3)_{12}$	Water	600
—, Cesium Sulfate $CsMg(SO_4)_2$	Water	473
—, Chaulmoograte $Mg(C_{38}H_{51}O_2)_2$	Various Solvents	2890
—, Chlorate $Mg(ClO_3)_2$	Water	588
—, Chloride $MgCl_2$	Ethanol	2821
	Methanol	2820
	Water	584,585
—, 2 (cadmium chloride) $MgCd_2Cl_6$	Water	598
—, Chromate $MgCrO_4$	Water	1
—, Cinnamate $Mg(C_9H_7O_2)_2$	Water	612
—, Dilactate $C_6H_5O_3Mg$	Water	607
—, Dithionate MgS_2O_6	Water	594
—, Decanesulfonate $Mg(C_{10}H_{21}SO_3)_2$	Water	619
—, Dodecane sulfonate $Mg(C_{12}H_{25}SO_3)_2$	Water	619
—, Dodecanoate $Mg(C_{12}H_{25}O_2)_2$	Various Solvents	2885
	Water	614
—, Fluoride MgF_2	Hydrogen Fluoride	2819
	Water	1
—, Formate $C_2H_3O_4Mg$	Water	602
—, Germanate $MgGeO_4$	Water	1
—, Gluconate $Mg(C_6H_{11}O_7)_2$	Water	609
—, Helianthate $Mg(C_{14}H_{14}N_3SO_3)_2$	Water	1
—, Hexa. antipyrine $Mg(C_{11}H_{12}N_2O)_3X_2$		
—, perchlorate	Water	1
—, tetrafluoroborate	Water	1
—, Hexadecane sulfonate $Mg(C_{16}H_{33}SO_3)_2$	Water	619
—, Hexadecanoate $Mg(C_{16}H_{31}O_2)_2$	Various Solvents	2889
	Water	616
—, Hexafluosilicate $MgSiF_6$	Water	596
—, Hydnocarpate $Mg(C_{16}H_{27}O_2)_2$	Various Solvents	2888
—, Hydroxide $Mg(OH)_2$	Water	583
—, Hypophosphate $Mg_2P_2O_6$	Water	1
—, dl-H.	Water	1
—, Iodate $Mg(IO_3)_2$	Water	589
—, Iodide MgI_2	Water	587
—, 6 (acetamide)	Acetamide	2851

MAGNESIUM Mg

—, Iodide MgI_2	Acetic Acid	2850
—, 6(acetic acid)	Acetone	2853
—, 6(acetone)	Acetonitrile	2849
—, 6(acetonitrile)	Aniline	2861
—, 4(aniline)	Benzaldehyde	2863
—, 6(benzaldehyde)	Ethyl Ether	2858,2859
—, dietherate	Ethyl Acetate	2886
—, 6(ethyl acetate)	Ethanol	2852
—, 6(ethyl alcoholate)	Ethyl Carbamate	2856
—, 6(ethyl carbamate)	Ethyl Formate	2855
—, 6(ethyl formate)	Isobutyl Acetate	2862
—, 6(isobutyl acetate)	Isopentyl Acetate	2864
—, 6(isopentyl acetate)	2-Propanol	2857
—, 6(isopropyl alcoholate)	Methyl Acetate	2854
—, 6(methyl acetate)	Methanol	2848
—, 6(methyl alcoholate)	Propyl Acetate	2860
—, 6(propyl acetate)	Ethanol	2879
—, Lactate $MgC_6H_{10}O_6$	Methanol	2878
—, Lanthanum Nitrate $Mg_3La_2(NO_3)_{12}$	Nitric Acid	2875
—, Lignocerate $Mg(C_{24}H_{47}O_2)_2$	Water	599
—, Malate $C_4H_4O_5Mg$	Water	1
—, Mandelate $Mg(C_8H_7O_3)_2$	Water	603
—, Methoxide $C_2H_5O_2Mg$	Water	611
—, Naphthalene-2-sulfonate $Mg(C_{10}H_7SO_3)_2$	Methanol	2876
—, 2-Naphthylamine-5,7-disulfonate $MgC_{10}H_5NH_2(SO_3)_2$	Water	613
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, 1-Naphthylamine-2,4,7-trisulfonate $MgC_{10}H_4NH_2(SO_3)_3$	Water	1
—, Neodymium Nitrate $Nd_2Mg_5(NO_3)_5$	Water	863
—, Neodymium Nitrate $Nd_2Mg_5(NO_3)_{12}$	Water	601
—, Nitrate $Mg(NO_3)_2$	Ammonia	2866
—, 6(ethyl alcoholate)	Water	591
—, 6(methyl alcoholate)	Ethanol	2868
—, Nitrite $Mg(NO_2)_2$	Methanol	2867
—, Octadecanesulfonate $Mg(C_{18}H_{37}SO_3)_2$	Water	590
—, Octadecanoate $Mg(C_{18}H_{35}O_2)_2$	Water	619
—, 9-Octadecenoate $Mg(C_{18}H_{33}O_2)_2$	Various Solvents	2892
—, Oxalate MgC_2O_4	Water	618
—, Perchlorate $Mg(ClO_4)_2$	Water	617
—, Phenanthrene-2-sulfonate $C_{14}H_9SO_3Mg$	Water	1
—, Phenanthrene-3-sulfonate	Various Solvents	2865
—, Phenanthrene-10-sulfonate	Water	606
—, Phosphonites $(R_2PO_2)_2Mg$	Water	606
—, bis-p-chlorophenyl—	Water	606
—, dibutyl—	Benzene	5971
—, di-n-decyl—	Ethanol	5112
—, diphenyl—	Water	1678
	Benzene	5971
	Ethanol	5112
	Water	1678
	Benzene	5971
	Ethanol	5112
	Water	1678
	Benzene	5971
	Ethanol	5112
	Water	1678

MAGNESTIUM Mg

—, Potassium Chromate $K_2Mg(CrO_4)_2$	Water	1
—, Potassium Hexacyanoferrate $K_2MgFe(CN)_6$	Water	1
—, Potassium Sulfate $K_2Mg(SO_4)_2$	Water	335
—, Praseodymium Nitrate $Pr_2Mg_3(NO_3)_9$	Water	855
—, Rubidium Sulfate $(Rb)_2Mg(SO_4)_2$	Water	4 13
—, Samarium Nitrate $[Sm(NO_3)_6]Mg_3$	Nitric Acid	3344
—, Selenate $MgSeO_4$	Water	595
—, Selenite $Mg(SeO_3)_2$		
— —, 1,2-dimethyl —	Water	1
— —, 1,3-dimethyl —	Water	1
—, Succinate $MgC_4H_4O_4$	Water	1
—, Sulfate $MgSO_4$	Ethanol	2872, 2873
	Formic Acid	2869
	Glycerol	2874
	Methanol	2870, 2871
	Water	593
—, Sulfite $MgSO_3$	Water	592
—, Tartrate $MgC_4H_4O_6$	Water	1,604
—, Tetracyanoplatinate $MgPt(CN)_4$	Water	597
—, Tetradecanesulfonate $Mg(C_{14}H_{29}SO_3)_2$	Water	6 19
—, Tetradecanoate $Mg(C_{14}H_{27}O_2)_2$	Various Solvents	2887
	Water	6 15
	Water	1214
MALAMIDE $C_4H_5N_2O_3$	Water	1
β -MALAMINIC ACID $C_4H_7NO_4$		
MALEIC ACID $C_4H_4O_4$	Acetone	5 159
	Alcohols	5339
	2-Butenenitrile	5337
	Dichloroacetylene	4644
	Various Solvents	5340
	Water	1173
MALEIC ACID $C_4H_4O_4$		
—, cis-Dimethyl ester	Ligroin	6017
—, Methyl —	2-Butenenitrile	5346
	Dichloroacetylene	4646
MALEIC ANHYDRIDE $C_4H_2O_3$	Dimethylbenzene	5323
MALEIC DIAMIDE $C_4H_4NO_2$	Water	1
MALIC ACID $C_4H_6O_5$	Various Solvents	5361
	Water	1, 1184
MALONIC ACID $C_3H_4O_4$	Benzene	5 148
	Ethanol	4836
	Ethyl Ether	5 147
	Formic Acid	4420
	Methanol	45 28
	2-Methyl-1-propanol	5 146
	1-Propanol	5 145
	Water	1153, 1154
MALONIC ACID		
—, Ethyl ester	Water	1
—, Butyl —	Benzene	58 25
	Water	1, 1500
— —, 3-methyl —	Water	1566
—, Decyl —	Benzene	5894
	Water	1
—, Ethyl —	Ethyl Ether	54 15
	Water	1, 1245
—, Heptyl —	Benzene	5885
	Water	1
—, Hexyl —	Benzene	5876
	Water	1

MALONIC ACID $C_3H_4O_4$	
—, Methyl—	Benzene 5357
	Water 1,1181
—, Nonyl—	Water 1
—, Octyl—	Benzene 5888
	Water 1
—, Pentyl—	Benzene 5863
	Water 1
—, Propyl—	Benzene 5786
	Water 1,1377
—, Undecyl—	Benzene 5921
MALTOSE $C_{12}H_{22}O_{11}$	Water 1,1627
MANDELIC ACID $C_8H_8O_3$	Benzene 5849
	Formic Acid 4440
	Water 1,1531
d-MANDELIC ACID	Chloroform 4310
	Water 6554
d^l-MANDELIC ACID	Chloroform 4311
	Ethanol 4937
	Methanol 4572
	1-Propanol 5264
	Water 6553
MANGANESE Mn	Mercury 2159
—, Acetate $MnC_4H_6O_4$	Methanol 3930
	Water 1
—, Ammonium Phosphate NH_4MnPO_4	Water 1
—, Ammonium Sulfate $(NH_4)_2Mn(SO_4)_2$	Water 1,558
—, Ammonium Tetrafluomanganate $MnNR_4F_4$	
— —, tetramethyl—	Acetic Acid 3931
	Ethanol 3932
—, Anthracene-1-sulfonate $Mn(C_{14}H_9SO_3)_2$	Water 1
—, Anthracene-2-sulfonate	Water 1
—, Benzenesulfonate $Mn(C_6H_5SO_3)_2$	Water 1012
—, Benzoate $Mn(C_7H_5O_2)_2$	Water 1013
— —, 4-chloro—	Water 1013
— —, 4-hydroxy—	Water 1013
— —, 4-methoxy—	Water 1013
— —, nitro—	Water 1013
—, Bromide $MnBr_2$	Water 1008
—, Camphorcarbonate $MnC_9H_8NF_4$	Ethanol 3936
	Methanol 3937
—, Carbonate $MnCO_3$	Water 1
—, Cesium Sulfate $Cs_2Mn(SO_4)_2$	Water 473
—, Chloride $MnCl_2$	Hydrazine 3914
	Potassium Chloride 2411
	Pyridine 3916
	Rubidium Chloride 2587
	Selenium Oxychloride 3915
	Thallium Chloride 3349
	Water 1007
—, Cinnamate $Mn(C_9H_7O_2)_2$	Water 1
—, Ethylenediammonium $MnC_2H_{10}N_2X$	
— —, pentafluoromanganate	Acetic Acid 3924
	Ethanol 3925
—, Fluoride MnF_2	Hydrogen Fluoride 3913
	Water 1,1006
—, Fumarate $MnC_4H_2O_4$	Water 1
—, Gluconate $Mn(C_6H_{11}O_7)_2$	Water 1
—, Guanidinium $MnC_2H_{12}N_6F_x$	
— —, pentafluoromanganate	Acetic Acid 3928
	Ethanol 3929
— —, tetrafluoromanganate	Acetic Acid 3926
	Ethanol 3927

MANGANESE Mn

—, Helianthate $Mn(C_{14}H_{14}N_3SO_3)_2$	Water	1
—, Hexa.antipyrine $Mn(C_{11}H_{12}N_2O)_X_2$		
— —, perchlorate	Water	1
— —, tetrafluoborate	Water	1
—, Hexafluosilicate $MnSiF_6$	Water	1
—, Hydroxide $Mn(OH)_2$	Water	1
—, Hypophosphite, di-H. $Mn(H_2PO_2)_2$	Water	1
—, Iodide MnI_3	Ammonia	3917
—, Naphthalene-2-sulfonate $Mn(C_{10}H_7SO_3)_2$	Water	1014
—, Neodymium Nitrate $Nd_2Mn_3(NO_3)_5$	Water	863
—, Nitrate $Mn(NO_3)_2$	Water	1,1009
—, Oxalate C_2O_4Mn	Water	1011
—, Perchlorate $Mn(ClO_4)_2$	2-Ethoxyethanol	3918
	Furfural	3919
—, Potassium Vanadate KmV_5O_{14}	Water	1
—, Praseodymium Nitrate $Pr_2Mn_3(NO_3)_5$	Water	855,856
—, Pyridinium MnC_5H_6NX		
— —, tetrafluoromanganate	Acetic Acid	3933
	Ethanol	3934
—, Quinolinium MnC_9H_8NX		
— —, tetrafluoromanganate	Acetic Acid	3935
	Ethanol	3936
—, Rubidium Sulfate $Rb_2Mn(SO_4)_2$	Water	413
—, Samarium Nitrate $[Sm(NO_3)_6]Mn_3$	Nitric Acid	3344
—, Sulfate $MnSO_4$	Ethanol	3922
	Glycol	3923
	Hydrazine	3920
	Methanol	3921
	Water	1010
—, Sulfide MnS	Water	1
MANNITOL $C_6H_{14}O_6$	Heavy Water	6057
	Pyridine	5583
	Water	1,1422-1424
d-MANNITOL	1-Butanol	5444
	2-Butanol	5446
	Ethanol	4898
	Methanol	4561
	2-Methyl-1-propanol	5445
	2-Methyl-2-propanol	5447
	1-Propanol	5259
	2-Propanol	5260
	2-Propen-1-ol	5178
d-MANNONIC LACTONE $C_6H_{10}O_6$	1-Butanol	5432
	2-Butanol	5434
	Ethanol	4891
	Methanol	4550
	2-Methyl-1-propanol	5433
	2-Methyl-2-propanol	5435
	1-Propanol	5253
	2-Propanol	5254
	2-Propen-1-ol	5175
d-MANNOSE $C_6H_{12}O_6$	1-Butanol	5440
	2-Butanol	5442
	Ethanol	4894
	Methanol	4558

d-MANNOSE	$C_6H_{12}O_6$	2-Methyl-1-propanol	5441
		2-Methyl-2-propanol	5443
		1-Propanol	5257
		2-Propanol	5258
		2-Propen-1-ol	5177
d-MANNOSE	$C_6H_{12}O_6$		
—, α -Methyl—		1-Butanol	5465
		2-Butanol	5467
		Ethanol	4923
		Methanol	4570
		2-Methyl-1-propanol	5466
		2-Methyl-2-propanol	5468
		1-Propanol	5262
		2-Propanol	5263
		2-Propen-1-ol	5186
		Water	1
MECONIC ACID	$C_7H_4O_7$	Water	1162
MELAMINE	$C_3H_6N_6$	Ammonia	3536
MENTHOL	$C_{10}H_{20}O$	Ethanol	4963
		Sulfur Dioxide	3795
		Water	1
		Water	1
MENTHONE	$C_{10}H_{18}O$		
MERCURY	Hg	Methanol	3223
—, Acetate	$HgC_2H_3O_2$	Water	1
		Acetone	3226
		Methanol	3225
		Sulfur Dioxide	3224
		Water	1
—, Acetate	$HgC_4H_6O_4$	Acetone	3229
		Benzene	3230
		Methanol	3228
		Water	1
—, Benzate	$Hg(C_7H_5O_2)_2$	Acetic Acid	3171
		Acetone	3175,3176
		Aniline	3181
		Benzene	3180
		Ethanol	3172-3174
		Methanol	3168-3170
		2-Methyl-1-propanol	3178
		1-Propanol	3177
		Pyridine	3179
		Quinoline	3182
		Sulfur Dioxide	3167
		Water	820
		Water	1
Butylmercury	C_4H_9HgX	Various Solvents	3231
—, Nitrate		Tribromoethane	3140
—, Camphorcarbonate	$Hg(C_{10}H_{16}O.C_2O_2)_2$	Water	1,815
—, Chloride	HgCl	Acetic Acid	3143,3144
		Acetone	3149-3151
		Benzene	3162-3164
		1-Butanol	3157
		Carbon Disulfide	3139
		Ethanol	3146,3147
		Chlorinated Paraffins	3166
		Dichloroethane	3142
		Ethyl Acetate	3154-3156
		Ethyl Ether	3159,3160

MERCURY Hg

—, Chloride HgCl ₂	Methanol	3141,3145
	Methyl Acetate	3152
	2-Methyl-1-propanol	3158
	1-Propanol	3153
	2-Propen-1-ol	3148
	Pyridine	3161
	Selenium Oxychloride	3138
	Sulfur Dioxide	3137
	Various Solvents	3165
	Water	1,816-819
	Water	1
—, Cinnamate Hg(C ₉ H ₇ O ₂) ₂	Water	1
—, Cyanate Hg(CNO) ₂	Acetone	3211
—, Cyanide Hg(CN) ₂	Acetonitrile	3209
	Aniline	3215
	Benzonitrile	3216
	Ethanol	3210
	Ethyl Ether	3213
	Glycerol	3212
	Methanol	3208
	Pyridine	3214
	Quinoline	3217
	Sulfur Dioxide	3207
	Various Solvents	3218
	Water	1,822
—, Cyanide Hg(CN) ₂ .X(hal)		
—, barium iodide	Water	1
—, calcium bromide	Water	1
—, potassium bromide	Water	1
—, potassium iodide	Water	1
—, sodium iodide	Water	1
—, strontium iodide	Water	1
—, Diazoaminobenzene Hg(C ₁₂ H ₁₀ N ₃) ₂	Alcohols	3232
—, Diethylthiothionocarbamate Hg(C ₆ H ₁₀ NS ₂) ₂	Various Solvents	3227
—, Ethylmercury C ₂ H ₅ HgX		
—, Nitrate	Water	1
—, Fluometaphosphate Hg ₂ PO ₃ F	Water	1
—, Fluoride HgF ₂	Hydrogen Fluoride	3135,3136
—, Formate C ₂ H ₄ O ₂	Tin Tetrachloride	3415
—, Hexadecanoate Hg(C ₁₆ H ₃₁ O ₂) ₂	Various Solvents	3233
—, Hydroxide Hg(OH) ₂	Water	1
—, Iodide HgI	Water	1
—, Iodide HgI ₂	Acetic Acid	3189
	Acetone	3190-3192
	Alcohols	3203
	Aniline	3201
	Benzene	3198-3200
	Carbon Disulfide	3184,3185
	Carbon Tetrachloride	3186
	Chloroform	3187
	Di-iodomethane	3188
	Dimethoxymethane	3193
	Ethyl Acetate	3194,3195
	Ethyl Ether	3196
	Hydrazine	3183
	Pyridine	3197
	Quinoline	3202
	Various Solvents	3204,3206
	Water	1, 821

MERCURY Hg	
—, Nitrate HgNO ₃	Hydrazine 3220
—, Nitrate Hg(NO ₃) ₂	Lanoline 3221
—, Octadecanoate Hg(C ₁₈ H ₃₅ O ₂) ₂	Various Solvents 3234
—, Oxalate HgC ₂ O ₄	Water 1
—, Oxide HgO	Water 1
—, Perchlorate Hg ₂ (ClO ₄) ₂	Water 823
Phenylmercury C ₆ H ₅ HgX	
—, Nitrate	Water 1
—, Sulfate HgSO ₄	Sulfur Dioxide 3222
—, Sulfate Hg ₂ SO ₄	Water 1
—, Sulfide HgS	Water 1
—, Tetracyanothallate HgTl ₂ (CN) ₄	Water 1
—, Thiocyanate Hg(CNS) ₂	Sulfur Dioxide 3219
Tolylmercury C ₇ H ₇ Hg X	
—, Nitrate	Water 1
o-Xylmercury C ₈ H ₁₀ HgX	
—, Nitrate	Water 1
MESITYLENE C ₉ H ₁₂	Water 1
—, Phosphite, di-H.	Water 6555
—, Trichloro—	Benzene 5870
METANILIC ACID C ₇ H ₇ NO ₃ S	Water 1,1359
—, 5-Bromo—	Water 1360
—, 4-Chloro—	Water 1
—, 4-Iodo—	Water 1344
—, 5-Iodo—	Water 1344
—, 6-Iodo—	Water 1344
METHANE CH ₄	Acetaldehyde 4477,6568
	Acetone 4481,4482
	Benzene 4494-4498
	Butane 4488,4489
	Carbon Tetrachloride 4047
	Chlorobenzene 4493
	Cracked Petrol 4512
	Cyclohexane 4499-4501
	Decane 4511
	Dichloroethane 4476
	Dimethylbenzene 4508
	1,3-Dimethylbenzene 4509
	Ethanol 4478-4480
	Ethyl Ether 4490
	Heavy Solvent 4514
	Heptane 4507
	Hexane 4502-4505
	Hydrocarbon Blends 4516-4518
	Kerosene 4513
	Methanol 4474,4475
	Methyl Acetate 4483
	Nitrogen 1781
	Octane 4510
	Oxygen 1823
	Paraffin 4515
	Pentane 4491,4492
	Propane 4484
	1-Propanol 4485
	2-Propanol 4486
	Sulfur Dioxide 3753
	Toluene 4506
	Various Solvents 4519
	Water 1101-1103

METHANE CH₄

—, Bromo—.	1098
—, Chloro—.	4460
	4462
	4465,4466
	4042-4046
	4464
	4264,4265
	4459
	4458
	4461
	4463
	4457
	4467
	1097
	4261
	4413
—, Chlorodifluoro—.	1,1092,1093
—, Chlorofluoro—.	4414,4415
—, Dibromo—.	1091
—, Dichloro—.	4405
	4031,4032
	4262,4263
	4416
	1
	1
	1,1099
	4839
	4878,4879
	4055
	4871
	4840
	4873
	4470
	4472
	4471
	1
	4141
	4142
	4143
	1
—, Tetrabromo—.	
—, Tetrachloro—.	see Carbon Tetrachloride
—, Tetrafluoro—.	
—, Tribromo—.	
	1082
	4208
	4406
	4407
	1
—, Trichloro—.	see Chloroform
—, Trichlorofluoro—.	Various Solvents 4033,4034
—, Trichlorotrinitro—.	Water 1086
—, Trifluoro—.	Ethane 4260
—, Triiodo—.	Naphthalene 4411
	Various Solvents 4412
	Aniline 6009
	Benzene 5941,5942
	Carbon Disulfide 4174
	Chloroform 4368
	Hexane 6051
	Pyridine 5620
	Pyrrrole 5349

METHANE CH ₄			
—, Triphenyl—	.....	Sulfur Dioxide	3812
		Thiophene	5336
—, Triphenylbromo—	.....	Benzene	5940
—, Triphenylchloro—	.....	Benzene	5939
METHANEDISULFONIC ACID CH ₄ S ₂ O ₆	.....	Water	1
—, Bromo—	.....	Water	1
—, Chloro—	.....	Water	1
METHANESULFONIC ACID CH ₄ O ₃ S	.....	Water	1105
METHANOL CH ₄ O	.....	Acetone	4530
		Benzene	4547
		Ethanol	4527
		Ethyl Ether	4538
		Heptane	4571
		Hexane	4559,4560
		Nonane	4580
		Octane	4576
		Propanol	4531
		Various Solvents	4619
		Water	1104
METHIONIC ACID	see Methanedisulfonic Acid		
METHIONINE C ₅ H ₁₁ NO ₂ S	.....	Acetic Acid	4778
dl-METHIONINE	.....	Water	1271
METHYLAMINE CH ₅ N	.....	Various Solvents	4640
		Water	1
METHYL CHLORIDE	see Methane, chloro—		
METHYLENE BLUE C ₁₆ H ₁₈ N ₃ ClS	.....	Pyridine	5615
		Water	1
METHYL ETHER	see Methane, methoxy—		
METHYL ORANGE C ₁₄ H ₁₄ N ₃ SO ₃ Na	.....	Pyridine	5600
		Water	1,231
METHYL SULFATE C ₂ H ₆ SO ₄	.....	Turpentine Oil	5131
		Water	1
MICHLER'S KETONE C ₁₇ H ₂₀ N ₂ O	.....	Ethanol	5020
		Pyridine	5617
		Quinoline	6251
		Mercury	2069
		Uranium Hexafluoride	6579
		Water	992
		Ethyl Ether	3595
		Various Solvents	6469
		Ethyl Ether	5499
		Various Solvents	6434-6438
		Water	1,1646
MOLYBDENUM Mo	.....	Various Solvents	6441
—, Fluoride MoF ₆	.....	Benzene	5954
—, Trioxide MoO ₃	.....	Chloroform	4354
MOLYBDOPHOSPHORIC ACID P ₂ O ₃ .20MoO ₃ .52H ₂ O	.....	Methanol	4597
MONOTROPITOSIDE C ₁₉ H ₂₆ O ₁₂ .H ₂ O	.....	Water	1691
MORPHINE C ₁₇ H ₁₉ NO ₃	.....	Chloroform	4354
		Methanol	4597
		Water	1691
		Ethanol	5041
		Ethyl Ether	5510
		Olive Oil	6468
		Sesame Oil	6467
		Water	1
		Chloroform	4354
		Ethanol	5042
MORPHINE			
—, Acetate	.....	
—, Diacetyl—	.....	
— —, hydrochloride	.....	
— —, Ethyl—	.....	
— —, hydrochloride	.....	

MORPHINE C₁₇H₁₉NO₃

—, hydrochloride	
—, Helianthate	
—, Hydrochloride	
—, Picrate	
—, Sulfate	
—, Tartrate	

MORPHOLINE C₄H₉NO

—, Diphenyl—	
—, phosphate	
—, Phenylmorpholido—	
—, phosphate	

MUSTARD GAS see Ethyl Sulfide, β , β' -dichloro—

MYRISTIC ACID see Tetradecanoic Acid

NAPHTHALENE C₁₀H₈

Methanol	4597
Water	1,1651,1691
Water	1
Various Solvents	6440
Various Solvents	6495
Various Solvents	6510
Water	1
Water	1691

Various Solvents	6419
Various Solvents	6405

Acenaphthene	6278
Acetic Acid	4788
Acetone	5191
Aniline	6004
Benzene	5877-5879
1-Butanol	5477,5478
2-Butanol	5480
Butyl Furoate	6272
Carbon Dioxide	4254,4255
Carbon Disulfide	4165
Carbon Tetrachloride	4090,4091
Chlorobenzene	5726
Chloroform	4319
Cyclohexanol	6034
p-Cymene	6276
Decahydronaphthalene	6277
Dibromoethane	4766,4767
Dichloroethane	4751,4752
Dimethylbenzene	6210,6211
1,2-Dimethylbenzene	6212
1,3-Dimethylbenzene	6213
1,4-Dimethylbenzene	6214
Ethanol	4954,4955
Ethylbenzene	6215
Ethylene	4743,4744
Ethyl Furoate	6159
Formic Acid	4445
Furfuryl Acetate	6160
Furfuryl Alcohol	5645
Hexane	6043
Hydrocarbon Biends	6283,6284
Indene	6260
Isoquinoline	6242
Methanol	4585,4586
Methylcyclohexanol	6170
Methyl Formate	4789
Methyl Furoate	5994
2-Methyl-1-propanol	5479
2-Methyl-2-propanol	5481
Nitrobenzene	5749
Perfluorobutoxybutane	6188
Perfluorotripropylamine	6235
Phenanthrene	6280
1-Propanol	5272,5273

NAPHTHALENE C₁₀H₈

2-Propanol 5274
 Propyl Furoate 6221
 Quinoline 6241
 Sulfur Dioxide 3788
 Tetrachloroethane 4695
 1,2,3,4-Tetrahydronaphthalene
 6275
 Toluene 6140-6143
 2,4,6-Trichloro-1,3,5-
 trinitrobenzene 5676
 2,4,6-Trinitro-1,3,5-
 trimethylbenzene 6269
 Various Acids 6282
 Various Solvents 6285
 Water 1,1688

NAPHTHALENE

—, 1-Chloro-2,4-dinitro —.

Ethanol 4952
 Methanol 4582
 Ethanol 4951
 Methanol 4581
 Sulfur Dioxide 3793

—, 1-Chloro-2,4,5-trinitro —.

trans Decahydro-
 naphthalene 6316

—, Decahydro —.

Dotriacontane 6318

—, cis Decahydro —.

Tetracosane 6317

—, 1,5-Dinitro —.

Acetone 5189

—, 1,8-Dinitro —.

Aniline 6002

Methanol 4583

—, 1-Nitro —.

Sulfuric Acid 3830

Acetone 5190

Aniline 6003

Methanol 4584

—, Picrate

Sulfuric Acid 3831

Diphenylamine 6274

Ethanol 4953

Formic Acid 4444

Benzene 5926

—, 1,2,3,4-Tetrahydro —.

1,2,3,4-Tetrahydro-
 naphthalene 6291

Water 1598

—, Trinitro —.

Glycol Diacetate 6024

Water 1

NAPHTHOIC ACID C₁₁H₈O₂

β-NAPHTHOIC ACID

—, Dihydro —.

Water 1610

Benzene 5880

2-NAPHTHOL C₁₀H₈O

Carbon Tetrachloride 4092

Ethanol 4956

Formic Acid 4446

Phenyl o-Hydroxy benzoate 6286

Water 1591-1593

1-NAPHTHOL-5-SULFONIC ACID C₁₀H₈SO₄

—, 6-Amino —.

Water 1

1-NAPHTHYLAMINE C₁₀H₉N

—, Benzene-1-sulfonate

Water 1366

—, 3-nitro —.

Water 1362

—, Helianthate

Water 1

2-NAPHTHYLAMINE C₁₀H₉N

—, Benzene-1-sulfonate

p-Cymene 6287

—, 3-nitro —.

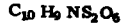
Water 1366

—, Helianthate

Water 1362

Water 1

2-NAPHTHYLAMINE-5,7-DISULFONIC ACID



2-NAPHTHYLAMINE-6,8-DISULFONIC ACID

1-NAPHTHYLAMINE-2-SULFONIC ACID $C_{10}H_9NSO_3$

1-NAPHTHYLAMINE-4-SULFONIC ACID

NARCEINE $C_{23}H_{27}NO_3$

—, Picrate

NARCOTINE $C_{20}H_{23}NO_7$

NARCOTINE

—, Picrate

dL-NARCOTINE

—, Picrate

NARINGIN $C_{27}H_{32}O_{14}$

NEODYMIUM Nd

—, Acetate $Nd(C_2H_3O_2)_3$

—, Benzene-1-sulfonate $Nd(C_6H_5SO_3)_3$

—, 3-nitro —.

—, Benzene-2-sulfonate

—, 1-bromo-4-nitro —.

—, Bromate $Nd(BrO_3)_3$

—, Camphorcarbonate $Nd(C_{11}H_{15}O_3)_3$

—, Chloride $NdCl_3$

—, Chromate $Nd_2(CrO_4)_3$

—, Cobalt Nitrate $Nd_3Co_3(NO_3)_5$

—, Glycolate $Nd(C_2H_3O_2)_3$

—, Hexa. antipyrine $Nd(C_{11}H_{12}N_2O_4)_6X_3$

—, perchlorate

—, Lactate $Nd(C_3H_5O_3)_3$

—, Magnesium Nitrate $Mg_9Nd_2(NO_3)_3$

—, Magnesium Nitrate $Mg_9Nd_2(NO_3)_{12}$

—, Manganese Nitrate $Mn_9Nd_2(NO_3)_3$

—, Molybdate $Nd_2(MoO_4)_3$

—, Nickel-Nitrate $Ni_4Nd_2(NO_3)_3$

—, Nitrate $Nd(NO_3)_3$

—, Oxalate $Nd_2(C_2O_4)_3$

—, Oxide Nd_2O_3

—, Pentachloride $NbCl_5$

—, Phosphate $Nd_2(R_2PO_4)_6$

—, dimethyl —.

—, Potassium Selenate $KNd(SeO_4)_2$

—, Potassium Sulfate $KNd(SO_4)_2$

—, Rubidium Sulfate $RbNd(SO_4)_2$

—, Selenate $Nd_2(SeO_4)_3$

—, Sodium Selenate $NaNd(SeO_4)_2$

—, Sulfate $Nd_2(SO_4)_3$

—, Tungstate $Nd_2(WO_4)_3$

—, Zinc Nitrate $Nd_2Zn_3(NO_3)_5$

Water	1
Water	1
Water	1595
Water	1596
Carbon Tetrachloride	4136,4137
Water	1
Various Solvents	6503
Acetone	5213
Aniline	6012
Benzene	5947
Carbon Tetrachloride	4128
Diethylamine	5545
Petroleum Ether	6473
Piperidine	5658
Pyridine	5629
Sesame Oil	6472
Trichloroethylene	4667
Water	1

Various Solvents	6501
Various Solvents	6502
Water	1659

Water	1
Water	1
Water	1
Water	1
Water	861
Water	863
Water	863
Water	867
Water	1
Water	863
Water	601
Water	863
Water	1
Water	863
Water	1,862
Water	1
Water	1
Titanium Tetrachloride	3397

Water	867
Water	1
Water	1
Water	863
Water	601
Water	863
Water	1
Water	863
Water	1,862
Water	1
Water	1
Titanium Tetrachloride	3397
Water	1
Water	1
Water	1
Water	1
Water	865
Water	1
Water	864,883
Water	866
Water	863

NEON Ne	Acetone	1858
	Benzene	1859,1860
	Cyclohexane	1861,1862
	Cyclohexanol	1863,1864
	Decane	1873
	2,3-Dimethylhexane	1869
	2,4-Dimethylhexane	1870
	Ethanol	1857
	Heptane	1866
	Hexane	1865
	Methanol	1856
	Methylcyclohexane	6563
	3-Methylheptane	1868
	Nonane	1872
	Octane	1867
	Perfluoromethylcyclohexane	6562
	Tetradecane	1874
	2,2,4-Trimethylpentane	1871
	Water	28-31
NEURINE PERCHLORATE $C_5H_{14}NO.ClO_4$	Water	1
NICKEL Ni	Mercury	2163
—, Acetate $NiC_4H_6O_4$	Acetic Acid	4008
—, Adipate $NiC_6H_8O_4$		
—, β -methyl—	Water	1
—, Ammonium Sulfate $(NH_4)_2Ni(SO_4)_2$	Water	562
—, Anthracene-1-sulfonate $Ni(C_{14}H_9SO_3)_2$	Water	1
—, Anthracene-2-sulfonate	Water	1
—, Benzeneselenate $Ni(C_6H_5SeO_3)_2$		
— —, 1,2-dimethyl—	Water	1
— —, 1,4-dimethyl—	Water	1
—, Benzene-1-sulfonate $Ni(C_6H_5SO_3)_2$	Water	1050
—, 2,4-dimethyl—	Water	1
—, Benzoate $Ni(C_7H_5O_2)_2$	Water	1
— —, 4-chloro—	Water	1
— —, 4-hydroxy—	Water	1
— —, 4-nitro—	Water	1
—, Bromate $Ni(BrO_3)_2$	Water	1
—, Bromide $NiBr_2$	Acetone	3999
	Methanol	3998
	Water	1040
—, Carbonate $NiCO_3$	Water	1
—, Cesium Sulfate $CS_2Ni(SO_4)_2$	Water	473
—, Chlorate $Ni(ClO_3)_2$	Water	1042
—, Chloride $NiCl_2$	Ethanol	3995,3996
	Glycol	3997
	Hydrazine	3994
	Water	1039
—, Cinnamate $Ni(C_9H_7O_2)_2$	Water	1
—, Citrate $Ni_3C_{12}H_{10}O_{14}$	Water	1
—, Cyanide $Ni(CN)_2$	Water	1
—, N,N-Diethylaminomethanethionothiolate $Ni(C_5H_{10}NS_2)_2$	Various Solvents	4009
—, Ethyl Xanthate $Ni(C_2H_5OCS_2)_2$	Water	214
—, Fluoride NiF_2	Bromine Trifluoride	2233
	Hydrogen Fluoride	3993
	Water	1038
—, Fumarate $NiC_4H_2O_4$	Water	1
—, Gluconate $Ni(C_6H_{11}O_7)_2$	Water	1
—, Helianthate $Ni(C_{14}H_{14}N_3SO_3)_2$	Water	1

NICKEL Ni

—, Hexa. antipyrine $Ni(C_{11}H_{12}N_2O)_6X_2$		
— —, perchlorate	Water	1
— —, tetrafluoroborate	Water	1
—, Hydroxide $Ni(OH)_2$	Water	1
—, Iodate $Ni(IO_3)_2$	Water	1043
—, Iodide NiI_2	Water	1041
—, Maleate $NiC_4H_2O_4$	Water	1
—, Naphthalene-1-sulfonate $Ni(C_{10}H_7SO_3)_2$		
— —, 5-chloro —	Water	1051
—, Naphthalene-2-sulfonate	Water	1053
— —, 6-hydroxy —	Water	1052
—, 2-Naphthylamine-5,7-disulfonate $NiC_{10}H_7NS_2O_6$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, Neodymium Nitrate $Nd_2N_3(NO_3)_5$	Water	863
—, Nitrate $Ni(NO_3)_2$	Glycol	4003
	Hydrazine	4002
	Water	1045
—, Nitroso- β -phenylhydroxylamine $Ni(C_6H_5N_2O_2)_2$	Water	1
—, Oxalate NiC_2O_4	Water	1
—, Pentacyanonitrososulfate $NiFe(CN)_5NO$	Water	1
—, Perchlorate $Ni(ClO_4)_2$	2-Ethoxyethanol	4000
	Furfural	4001
	Water	1044
—, Potassium Citrate $K_4Ni(C_6H_5O_7)_2$	Water	1
—, Potassium Sulfate $K_2Ni(SO_4)_2$	Water	1,349,350
—, Praseodymium Nitrate $Pr_2N_3(NO_3)_5$	Water	855
—, Rubidium Sulfate $Rb_2Ni(SO_4)_2$	Water	413
—, Samarium Nitrate $[Sm(NO_3)_6]Ni_3$	Nitric Acid	3344
—, Sulfate $NiSO_4$	Ethanol	4005,4006
	Glycol	4007
	Methanol	4004
	Water	1046-1048
—, Thiocyanate $Ni(CNS)_2$	Water	1
—, Triethylenediamine Thiosulfate $NiC_6H_{14}N_6O_3S_2$	Water	1049
NICOTINE $C_{10}H_{14}N_2$	Water	1604
NICOTINIC ACID see 3-Pyridinecarboxylic Acid		
NIOBIUM Nb		
—, Fluoride NbF_5	Bromine Trifluoride	2233
NITRIC ACID HNO_3	Water	957
NITROGEN N_2	Acetone	1792,6558
	Ammonia	1769
	Benzene	1801,1803
	Butane	1796
	1-Butanol	1797
	Carbon Disulfide	1778
	Carbon Tetrachloride	1779,1780
	Chlorobenzene	1800
	Cyclohexane	1805
	Ethanol	1788-1790
	Ethyl Ether	1798,1799
	Hexane	1806
	Hydrocarbon Blend	1814,1815
	Methanol	1782-1784
	Methyl Acetate	1793
	6-Methylheptane	1811
	2-Methylpropanoic Acid	1795
	Paraffin	1812
	Paraffin Wax	1813
	Perfluorodimethylcyclohexane	1809

NITROGEN N₂

Perfluoroheptane 1808
Perfluoromethyl-
cyclohexane 1807
Polystyrene 1810
2-Propanol 1794
Sulfur Dioxide 1773-1775
Various Solvents 1816
Water 15-21

NITROGEN

—, Oxideous N₂O

Acetic Acid 3557
Acetone 3561,3562
Aniline 3568
Benzaldehyde 3570
Benzene 3567
Bromoethane 3558
Carbon Tetrachloride 3554
Chlorobenzene 3566
Chloroform 3555
Cyclohexanol 3569
Ethanol 3559,3560
Methanol 3556
Methyl Acetate 3563
3-Methyl-1-butanol 3565
Oxygen 6559
Pentyl Acetate 3571
Pyridine 3564
Water 953-955

—, Oxide (Ic) NO

Benzene 3575
Carbon Tetrachloride 3572
Cyclohexane 3576
Ethanol 3573
Nitrobenzene 3574
Water 956
Butoxybutane 3589

—, Tetroxide N₂O₄

t-Butoxy-2-methyl-
propane 3590
1,2-Diethoxyethane 3588
Dinitrogen Trioxide 3578
1,3-Dioxane 3584
Isopropoxydimethylmethane 3587
Methyltetrahydrofuran 3585
Nitric Acid 3579,3580
Perfluortetrahydrofuran 3583
Propoxypropane 3586
Trioxane 3582

NITROGLYCERIN see Glycerol Trinitrate

NITRON C₂₀H₁₆N₄

Carbon Tetrachloride 4125
Chloroform 4373

NITRONIUM

—, Hexabromoiridate

Water 1057
Water 1057

—, Hexachloroiridate

NITROSYL CHLORIDE NOCl

Cyclohexane 3577
Acetone 5212

2-NONADECANONE C₁₉H₃₈O

Acetonitrile 4726
Benzene 5946
Carbon Tetrachloride 4124
Chloroform 4372
Cyclohexane 6031
Dioxane 5404
Ethanol 5043

2-NONADECANONE C ₁₉ H ₃₈ O	Ethyl Acetate	5403
	Hexane	6052
	Methanol	4606
	2-Propanol	5280
	Toluene	6156
NONANEDIOIC ACID C ₉ H ₁₆ O ₄	Benzene	5875
	Formic Acid	4443
	Water	1588
NONANEDIOIC ACID		
—, Ethyl ester	Water	1
NONANOIC ACID C ₉ H ₁₈ O ₂		
—, Ethyl ester	Water	1
2-NONANONE C ₉ H ₁₈ O	Acetone	5188
	Acetonitrile	4721
	Carbon Tetrachloride	4089
	Chloroform	4318
	Ethanol	4950
	Ethyl Acetate	5390
	Hexane	6042
	Methanol	4579
	2-Propanol	5271
	Toluene	6139
	Water	1589
	Various Solvents	6039
	Water	1412
5-NONANONE C ₉ H ₁₈ O	Ethanol	4995
NORLEUCINE C ₆ H ₁₃ NO ₂	Water	1
di-NORLEUCINE	Acetone	5209
NOVOCAINE C ₁₃ H ₂₀ N ₂ O ₂	Acetonitrile	4724
—, Hydrochloride	Benzene	5937
	1-Butanol	5504
9,12-OCTADECADIENOIC ACID C ₁₈ H ₃₂ O	2-Butanone	5374
	Carbon Tetrachloride	4120
	Chloroform	4364
	Cyclohexane	6029
	Ethanol	5033
	Ethyl Acetate	5400
	Hexane	6049
	Methanol	4602
	Nitroethane	4821
	2-Propanol	5278
	Ethanol	5036
	Methyl Formate	4797
	Various Solvents	6463
	Water	1
OCTADECANOIC ACID C ₁₈ H ₃₆ O ₂		
	Ethanol	5082
	Various Solvents	6515
OCTADECANOIC ACID	Ethanol	5086
—, Benzyl ester	Ethanol	5085
—, Hexadecyl ester	Ethanol	5084
—, Phenacyl ester	Ethanol	5098
— —, p-bromo —	Nitrobenzene	5752
— —, p-chloro —	Acetone	5210
OCTADECANOIC ANHYDRIDE C ₃₆ H ₇₀ O ₃	Acetonitrile	4725
cis-9,11,13-OCTADECATRIENOIC ACID C ₁₈ H ₃₂ O ₂	Benzene	5938
9-OCTADECENOIC ACID C ₁₈ H ₃₄ O ₂	1-Butanol	5505
	2-Butanone	5375
	2-Butenenitrile	5348

9-OCTADECENOIC ACID $C_{18}H_{34}O_2$	Butyl Acetate	6035
	Carbon Tetrachloride	4121
	Chlorobenzene	5728
	Chloroform	4365
	Cyclohexane	6030
	Dichloroethane	4758
	1,2-Dimethylbenzene	6220
	Dioxane	5402
	Ethanol	5035
	Ethyl Acetate	5401
	Ethyl Ether	5506
	Furfural	5564
	Hexane	6050
	Methanol	4603
	Nitrobenzene	5753
	Nitroethane	4822
	Nitromethane	4473
	Octadecanoic Acid	6460
	1-Propanol	5279
trans-9-OCTADECENOIC ACID $C_{18}H_{34}O_2$	Various Solvents	6461,6462
OCTADECYLAMINE $C_{18}H_{39}N$	Acetic Acid	4798
OCTANE C_8H_{18}	Phenol	5977
	Sulfur Dioxide	3787
	Water	1
OCTANEDIOIC ACID $C_8H_{14}O_4$	Ethanol	4943
	Formic Acid	4441
	Methanol	4575
	1-Propanol	5266
	Water	1565
OCTANEDIOIC ACID		
—, Ethyl ester	Water	1
OCTANE SULTONE $C_8H_{16}O_3S$	Various Solvents	6229
OCTANOIC ACID $C_8H_{16}O_2$		
—, Ethyl ester	Water	1
OCTANOL $C_8H_{18}O$	Water	1
OLEIC ACID see 9-Octadecenoic Acid		
ORTHANILIC ACID $C_6H_7NO_3S$	Water	1,187
—, 6-Bromo—	Water	1361
—, 4-Chloro—	Water	1
—, 4-Iodo—	Water	1344
—, 5-Iodo—	Water	1344
OSMIUM Os		
—, Tetroxide OsO_4	Carbon Tetrachloride	4011
	Water	1055
OXALIC ACID $C_2H_2O_4$	Ethanol	4697
	Ethyl Ether	4700-4702
	Formic Acid	4419
	Glycerol	4698
	Methanol	4526
	2-Methyl-1-propanol	4699
	1-Propanol	4774
	Water	1,1117,1118
OXALIC ACID		
—, Dimethyl ester	Camphene	5358
	Formic Acid	4423
	Pyridine	5356
	Water	1,1182,1183
OXYGEN O_2	Acetone	1834-1836
	Benzene	1842,1843
	Bismuth	1817

OXYGEN O ₂	1-Butanol	1838
	Carbon Tetrachloride	1822
	Chlorine	1819
	Chlorobenzene	1841
	Cyclohexanol	1844
	Dimethylbenzene	1846
	Ethanol	1830, 1831
	Ethyl Ether	1839, 1840
	Kerosene	1849
	Ligroin	1850
	Methanol	1824, 1825
	Methyl Acetate	1837
	6-Methylheptane	1847
	Paraffin	1851
	Paraffin Wax	1852
	Petrol	1848
	Sulfur Dioxide	1818
	Toluene	1845
	Various Solvents	1853, 1854
	Water	22-24
OZONE O ₃	Various Solvents	1855
	Water	1, 27
PALLADIUM Pd		
—, Chloride PdCl ₂	Hydrazine	4010
PALMITIC ACID see Hexadecanoic Acid		
PAPAVERINE C ₂₀ H ₂₁ NO ₄	Aniline	6011
	Carbon Tetrachloride	4126, 4127
	Diethylamine	5543
	Ethyl Ether	5511
	Pipindine	5657
	Pyridine	5628
	Quinoline	6255
PAPAVERINE		
—, Picrate	Acetone	5222
	Ethanol	5083
	Water	1
PARAFFIN	Heptane	6184
	Hexane	6055
	8-Methylnonane	6319
	Octane	6233
	Pentane	5664
	Various Solvents	6538
	Water	1403
PARALDEHYDE C ₆ H ₁₂ O ₃		
PELARGONIC ACID see Nonanoic Acid		
PENTAMETHYLENE GLYCOL see 1,5-Pentanediol		
PENTANE C ₅ H ₁₂	Water	1
—, 3,3-Bisethylsulfonyl—	Water	1
—, 2,4-Dimethyl—	Furfural	5561
—, 2-Methyl—	Furfural	5556
—, 2,2,4-Trimethyl—	Nitroethane	4820
	Perfluorotributylamine	6231
PENTANEDIOIC ACID see Glutaric Acid		
1,5-PENTANEDIOL C ₅ H ₁₂ O ₂	Benzene	5668
	Cyclohexane	5669
	Heptane	5670
2,4-PENTANEDIONE C ₅ H ₈ O ₂	Heavy Water	5646
	Water	1, 1242
1,2,3,4 -PENTANETETROL C ₅ H ₁₂ O ₄		
—, Tetranitrate	Acetone	5163, 5164
	Benzene	5649, 5650

1,2,3,4-PENTANETETROL $C_5H_{12}O_4$		
—, Tetranitrate	Ethanol	4861,4862
	Ethyl Acetate	5376
	Ethyl Ether	5416
	Toluene	5651
	Methanol	4539
— —, tetrahydroxy	Water	1
PENTANOIC ACID $C_5H_{10}O_2$	Water	1
—, Ethyl ester.	Ethanol	4895
—, 5-Ureido—.	Water	1,1272
1-PENTANOL $C_5H_{12}O$	Water	1568
—, 2,2,3-Trimethyl—.	Water	1274
2-PENTANOL $C_5H_{12}O$	Water	1513
—, 2,3-Dimethyl—.	Water	1513
—, 2,4-Dimethyl—.	Water	1415
—, 2-Methyl—.	Water	1415
—, 3-Methyl—.	Water	1415
—, 4-Methyl—.	Water	1415
3-PENTANOL $C_5H_{12}O$	Water	1274
—, 2,2-Dimethyl—.	Water	1513
—, 2,3-Dimethyl—.	Water	1513
—, 2,4-Dimethyl—.	Water	1513
—, 3-Ethyl—.	Water	1513
—, 2-Methyl—.	Water	1415
—, 3-Methyl—.	Water	1415
2-PENTANONE $C_5H_{10}O$	Water	1,1248-1250
—, 3-Methyl—.	Water	1395
—, 4-Methyl—.	Water	1392-1394
3-PENTANONE $C_5H_{10}O$	Water	1253-1256
—, 2,4-Dimethyl—.	Water	1506,1507
—, 2-Methyl—.	Water	1398
PENTENE C_5H_{10}	Aniline	5653
1-PENTEN-4-ol $C_5H_{10}O$	Water	1261
3-PENTEN-2-ol	Water	1260,1263
3-PENTEN-4-ol	Water	1262
4-PENTEN-1-ol $C_5H_{10}O$	Water	1264
4-PENTEN-3-ol $C_5H_{10}O$	Water	1265
—, 2-Methyl—.	Water	1384,1385
PEPTONE	Pyridine	5641
	Water	1
PERCHLORIC ACID $HClO_4$	Water	1001
PETROLEUM ETHER	Water	1
PHENACETIN see p-Acetophenetide		
PHENANTHRENE $C_{14}H_{10}$	Acenaphthene	6344
	Acetic Acid	4794
	Acetone	5200,5201
	Benzene	5916,5917
	Benzine	6395
	Carbon Disulfide	4171,4172
	Carbon Tetrachloride	4107,4108
	Chloroform	4344,4345
	Cyclohexane	6028
	Dihydroperfluorooctane	6189
	Ethanol	5001-5003
	Ethyl Ether	5494,5495
	Fluoranthene	6381
	Fluorene	6366
	Formic Acid	4451
	Heavy Naphtha	6389
	Hexane	6047
	Hydrocarbon Blends	6392,6393

PHENANTHRENE C ₁₄ H ₁₀	Methanol	4595
	Methyl Formate	4795
	Monohydroperfluoroheptane	6065
	Petroleum Light Fraction	6387
	Petroleum Solvent	6385,6386
	Pyridine	5609
	Sulfur Dioxide	3804
	Toluene	6152,6153
	Various Acids	6396
	Various Solvents	6399
	Water	1688
PHENANTHRENE		
—, Picrate	Ethanol	5044
p-PHENETIDIUM C ₈ H ₁₁ NO		
—, Benzeneulfonate	Water	1366
PHENETOLE C ₈ H ₁₀ O		
—, 2,4-Dinitro—	Various Solvents	6207
—, 4-Nitro—	Diphenylamine	6209
—, 2,4,6-Trinitro—	Various Solvents	6200
PHENOBARBITAL C ₁₆ H ₁₂ N ₂ O ₃	Benzene	5929
	Carbon Tetrachloride	4115
PHENOL C ₆ H ₆ O	Benzene	5764
	Heavy Water	5973
	Paraffin	5979
	Sulfur Dioxide	3772
	Water	1,1325-1330
PHENOL		
—, 2-Amino—	Benzene	5780
	Water	1355
—, 3-Amino—	Benzene	5779
	Water	1354
—, 4-Amino—	Benzene	5781
	Water	1356
—, Aniline	Water	1620
—, 2-Chloro—	Benzene	5732
	2-Methylpyridine	5734
	3-Methylpyridine	5735
	4-Methylpyridine	5736
	Water	1303
—, 3-Chloro—	Benzene	5731
	Water	1302
—, 4-Chloro—	Benzene	5733
	Water	1304
—, Dinitro—	Methanol	4548
—, 2,3-Dinitro—	Benzene	5712
	Water	1294
—, 2,4-Dinitro—	Benzene	5713
	Various Solvents	5718
	Water	1295
—, 2,5-Dinitro—	Benzene	5714
	Water	1296
—, 2,6-Dinitro—	Benzene	5715
	Various Solvents	5719
	Water	1297
—, 3,4-Dinitro—	Benzene	5716
	Water	1298
—, 3,5-Dinitro—	Benzene	5717
	Water	1299
—, 3,6-Dinitro—	Ethanol	4890
—, Hexahydro—	Water	1

PHENOL C_6H_6O	
—, o-Methoxy—	Various Solvents 6158
—, carbonate	Various Solvents 6411
—, 2-Methyl—	Ethanol 4918
	Water 1475-1477
—, 3-Methyl—	Water 1,1473,1474
—, 4-Methyl—	Water 1478,1479
—, Nitro—	Formic Acid 4427
—, 2-Nitro—	Acetone 5166
	Benzene 5756
	Bromobenzene 5729
	Dibromoethane 4764
	Ethanol 4875
	Ethyl Ether 5423
	Toluene 5760
	Various Solvents 5762
	Water 1,1314
—, 3-Nitro—	Acetone 5166
	Benzene 5755
	Ethanol 4874
	Ethyl Ether 5422
	Toluene 5759
	Water 1,1313
—, 4-Nitro—	Acetone 5167
	Benzene 5757,5758
	Bromobenzene 5730
	Dibromoethane 4765
	Ethanol 4876
	Ethyl Ether 5424
	Toluene 5761
	Various Solvents 5763
	Water 1,1315
—, 2-Phenyl—	Pyridine 5597
—, 3-Phenyl—	Pyridine 5596
—, 4-Phenyl—	Pyridine 5598
—, 2,4,6-Trinitro—	see Picric Acid
PHENOLPHTHALEIN $C_{20}H_{14}O_4$	Ethanol 5045
	Petroleum Ether 6470
	Pyridine 5625
	Quinoline 6252
	Various Solvents 6471
	Water 1
PHENOTHIAZINE $C_{12}H_9NS$	Diphenylamine 6341
	Sulfur Dioxide 3798
	Diphenylamine 6334
PHENOTOXIN $C_{12}H_6OS$	Water 1
PHENYLACETIC ACID see Acetic Acid, phenyl—	Benzene 5782
PHENYLARSONIC ACID $C_6H_5O_3As$	Benzene 5783
—, 1,2-Dimethyl—	Water 1,1370
PHENYLENEDIAMINE $C_6H_8N_2$	Benzene 5860
m-PHENYLENEDIAMINE $C_6H_8N_2$	Water 1552
—, N-Acetyl—	Benzene 5784
o-PHENYLENEDIAMINE $C_6H_8N_2$	Water 1371
—, N-Acetyl—	Benzene 5861
p-PHENYLENEDIAMINE $C_6H_8N_2$	Water 1553
—, N-Acetyl—	Benzene 5785
	Water 1,1372
	Benzene 5862
	Water 1554

m-PHENYLENEDIAMMONIUM

—, Benzene sulfonate	Water	1366
—, Hydrochloride	Pyridine	5619
— —, phenylenediazo—	Water	1

p-PHENYLENEDIAMMONIUM

—, Benzene sulfonate	Water	1366
PHLOROGLUCINOL C ₆ H ₆ O ₃	Cymene	5995
	Pyridine	5880
	Water	1

PHOSGENE COCl ₂	Benzene	4195
	Carbon Tetrachloride	4038
	Chlorobenzene	4192,4193
	Chloronaphthalene	4201
	Creosol	4200
	Dichloroethane	4191
	Dimethylbenzene	4198,4199
	Heavy Lubricating Oil	4204
	Kerosene	4202
	Nitrobenzene	4194
	Petroleum	4203
	Tetrachloroethane	4189,4190
	Toluene	4196,4197
	Trichloroethylene	4188
	Various Solvents	4205

PHOSPHORAMIDES PO(NH₂)₃

—, Tribenzyl—	Carbon Tetrachloride	4134
—, Tricyclohexyl—	Chloroform	4389
—, Trimorpholyl—	Carbon Tetrachloride	4122
—, Tri- <i>o</i> -tolyl—	Various Solvents	6365
—, Triphenyl—	Chloroform	4387
—, Triphenylhydrazyl—	Chloroform	4357
—, Tri- <i>p</i> -phenetyl—	Chloroform	4361
—, Tri- <i>p</i> -tolyl—	Chloroform	4391
	Chloroform	4388

PHOSPHORIC ACID

—, Ortho— H ₃ PO ₄	Ethyl Ether	3593
	Phenol	3594
	Water	1,962,963
—, Pyro— H ₄ P ₂ O ₇	Water	964
	Benzene	1982

PHOSPHORUS P

	Carbon Disulfide	1974,1975
	Carbon Tetrachloride	1976
	Dibromobenzene	1981
	Dibromoethane	1977
	Ethanol	1978
	Ethyl Ether	1980
	Glycerol	1979
	Heptane	1983
	Naphthalene	1984
	Phenanthrene	1985
	Phosphorus Trioxide	1972
	Various Solvents	1986

PHOSPHORUS

—, Heptasulfide P ₄ S ₇	Carbon Disulfide	3597
—, Pentasulfide P ₄ S ₁₀	Carbon Disulfide	3598
—, Selenide P ₄ Se ₃	Carbon Disulfide	3599

PHOSPHORUS

—, Trisulfide P_4S_3	Various Solvents	3596
o-PHTHALALDEHYDE $C_6H_6O_2$	Water	1516
—, 5-Methyl—.	Water	1528
p-PHTHALALDEHYDE $C_6H_6O_2$		
—, 5-Methyl—.	Water	1529
—, 6-Methyl—.	Water	1530
m-PHTHALALDEHYDIC ACID $C_8H_6O_3$	Benzene	5831
	Water	1517
o-PHTHALALDEHYDIC ACID $C_8H_6O_3$	Benzene	5832
	Water	1
p-PHTHALALDEHYDIC ACID $C_8H_6O_3$	Benzene	5833
	Water	1519
PHTHALANDIONE MONOXIDE $C_8H_5NO_3$	Benzene	5829
m-PHTHALIC ACID $C_8H_6O_4$	Water	1
—, 5-Nitro—.	Water	1515
o-PHTHALIC ACID $C_8H_6O_4$	Cymene	6193
	Various Alcohols	6194,6195
	Various Solvents	6196
	Water	1,1338,1339,1520
o-PHTHALIC ACID		
—, Dibutyl ester	Acid Dye Bright Green J	6426
	Blue Dye K for silk	
	Acetate	6421
	Cyamine Dye Green 5G	6423
	Scarlet Dye J for Silk	
	Acetate	6420
	Sudan Blue Dye U	6424
	Sudan Red Dye 7V	6425
	Sudan Yellow Dye U	6422
	Water	1515
—, 3-Nitro—.	Formic Acid	4437
p-PHTHALIC ACID $C_8H_6O_4$	Carbon Disulfide	4164
PHTHALIC ANHYDRIDE $C_8H_4O_3$	Formic Acid	4436
	Pyridine	5589
	Water	1514
PHTHALIMIDE $C_8H_5NO_2$	Pyridine	5590
	Water	1
—, N-Anilino—.	Benzene	5918
—, N-(N-Methylanilino)—.	Benzene	5923
PHTHALONIC ACID $C_9H_6O_5$	Chloroform	4314
	Water	1
PHYSOSTIGMINE $C_{15}H_{21}N_3O_2$		
—, o-Hydroxybenzoate	Various Solvents	6489
PICOLINIC ACID see 2-Pyridinecarboxylic Acid		
PICRAMIDE see Aniline, 2,4,6-trinitro—.		
PICRIC ACID $C_6H_3N_3O_7$	Ammonia	3519
	Benzene	5681
	Chloroform	4279
	Ethanol	4866,4867
	Ethyl Ether	5417,5418
	Formic Acid	4425
	Methanol	4544
	1-Pentanol	5665
	Petroleum Ether	5683
	1-Propanol	5249
	Sulfur Dioxide	3764
	Toluene	5682
	Various Solvents	5684,5685
	Water	1,1289-1292

PICROTOXIN $C_{30}H_{34}O_{13}$	Pyridine	5636
	Water	1
PILOCARPINE $C_{11}H_{16}N_2O_2$	Sesame Oil	6328
—, Hydrochloride	Various Solvents	6329
—, Nitrate	Various Solvents	6330
PIMELIC ACID see Heptanedioic Acid		
PIPERIDINE $C_5H_{11}N$	Water	1268
—, Methyl—	Water	1172
—, 2-Propyl—	Water	1
PIPERIDINIUM $C_{17}H_{19}NX$		
—, Bromide	Water	1
—, Chloride	Various Solvents	5662
—, α, α' -diphenyl—	Water	1
—, Iodide	Water	1
—, 1-Naphthol-7-sulfonate		
— —, 2,4-dinitro—	Various Solvents	6412
—, Sulfate	Water	1
PIPERINE $C_{17}H_{19}NO_3$	Ethanol	5019
	Pyridine	5616
	Quinoline	6250
	Trichloroethylene	4665
	Various Alcohols	6432
	Various Solvents	6433
	Water	1
PIPERONAL $C_8H_6O_3$	Carbon Tetrachloride	4081
	Chloroform	4309
	Mercury	2164
	Water	1
PLATINUM Pt	Water	565
—, Acetoacetate $Pt(C_2H_7O_2)_2$	Water	1
— Amminoplatinum (II) Nitrite $Pt_2NH_3(NO_2)_2$	Water	565
—, Bromide $PtBr_4$	Water	1
—, Chloride $PtCl_2$	Hydrazine	4012
—, Chloride $PtCl_4$	Water	1
—, Diacetylacetonate $PtC_{10}H_{14}O_4$	Benzene	4014
	Ethanol	4013
PLUTONIUM Pu		
—, Oxalate PuC_4O_8	Water	1069
POTASSIUM K	Ammonia	1940
	Potassium Hydroxide	1939
—, Acetate $C_2H_3O_2K$	Water	360
—, Aluminum Sulfate $KAl(SO_4)_2$	Water	343,344
—, Anthraquinone-1,5-disulfonate $C_{14}H_6O_8S_2K_2$	Water	373
—, Anthraquinone-1,6-disulfonate	Water	373
—, Anthraquinone-1,7-disulfonate	Water	373
—, Anthraquinone-1,8-disulfonate	Water	373
—, Anthraquinone-1-sulfonate $C_{14}H_7O_5SK$		
— —, 5-chloro—	Water	373
— —, 6-chloro—	Water	373
— —, 7-chloro—	Water	373
— —, 8-chloro—	Water	373
—, Arsenate, di—H. KH_2AsO_4	Water	1
—, Azide KN_3	Water	274
—, Barium Hexacyanoferrate $K_2BaFe(CN)_6$	Water	1
—, Benzenesulfonate $C_6H_5SO_3K$	Water	1
— —, 4-bromo-2-nitro—	Water	1
— —, 3-chloro—	Water	1
— —, 4-chloro—	Water	1
— —, 4-chloro-2-nitro—	Water	1
— —, 5-chloro-2-nitro—	Water	1
— —, 6-chloro-3-nitro—	Water	1
— —, 2,4-dinitro—	Water	1

POTASSIUM K

—, Benzenesulfonate $C_6H_5 SO_3K$	Water	1
— —, 2-nitro —	Water	1
— —, 3-nitro —	Water	1
— —, 4-nitro —	Water	1
—, Benzoate $C_7H_5 O_2K$	Water	368,369
— —, 2-hydroxy —	Water	370
—, Bromate $KBrO_3$	Water	262-264
—, Bromide KBr	Acetonitrile	2705
	Formic Acid	2703
	Methanol	2704
	Various Solvents	6575
	Water	252-255
—, Bromide. Mercury Cyanide $KBr.Hg(CN)_2$	Water	1
—, Butanoate $KC_4H_7O_2$	Water	1
—, Cadmium Bromide $KCdBr_2$	Water	341
—, Cadmium Chloride $KCdCl_2$	Water	338
—, Cadmium Chloride K_4CdCl_6	Water	337,339,340
—, Cadmium Sulfate $K_2Cd(SO_4)_2$	Water	342
—, Calcium Hexacyanoferrate $K_2CaFe(CN)_6$	Water	1
—, Carbonate K_2CO_3	Water	272,273
— —, mono — H.	Water	270,271
—, Caryophyllin $KC_{30}H_{48} O_4$	Ethanol	2528
	Methanol	2527
—, Chlorate $KClO_3$	Water	261
—, Chloride KCl	Acetonitrile	2705
	Formic Acid	2703
	Methanol	2704
	Water	247-251
—, Chloride. Mercury Cyanide $KCl.Hg(CN)_2$	Water	1
—, Chromate K_2CrO_4	Water	298-303
—, Chromium Sulfate $KCr(SO_4)_2$	Water	1
—, Citrate $C_6H_5 O_7K_3$	Water	367
—, Cobalt Citrate $KCoC_6H_5 O_7$	Water	1
—, Cobalt Citrate $K_4Co(C_6H_5 O_7)_2$	Water	1
—, Cobalt Malonate $K_2Co(C_3H_2O_4)_2$	Water	1
—, Cobalt Sulfate $K_2Co(SO_4)_2$	Water	1,348
—, Copper Citrate $K_4Cu(C_6H_5 O_7)_2$	Water	1
—, Copper Sulfate $K_2Cu(SO_4)_2$	Water	1,333
—, Cymenesulfonate $C_{10}H_{13} SO_3K$	Water	372
—, Dibromiodide $KIBr_2$	Water	1
—, Dichromate $K_2Cr_2O_7$	Water	304-308
—, Didymium Sulfate $KDi(SO_4)_2$	Water	1
—, Dipicrylamine $KC_{12}H_5 N_7 O_{12}$	Water	6545
—, Dithionate $K_2S_2O_6$	Water	294
—, Dodecamolybdochromate $K_2Cr_7Mo_{12}O_{42}$	Water	1
—, Dodecanoate $KC_{12}H_{23} O_2$	Water	1
—, Dodecawolframophosphate $K_3PO_4(WO_3)_{12}$	Water	1
—, Formate CHO_2K	Water	353
— —, hydrogenformate	Water	359
—, Fluoride KF	Acetone	2399
	Acetonitrile	2705
	Bromine Trifluoride	2233
	Ethanol	2398
	Hydrogen Fluoride	2395,2396
	Methanol	2397,2704
	1-Propanol	2400
	Sulfur Dioxide	2394
	Water	245
—, Fluoride hydrogenfluoride KHF_2	Water	246

POTASSIUM K

—, Gluconate $KC_6H_{11}O_7$	Water	1
—, Helianthate $KC_{14}H_{14}N_3SO_3$	Water	1
—, Hexabromoplatinate K_2PtBr_6	Water	1
—, Hexabromostannate K_4SnBr_6	Water	324
—, Hexachloroiridate K_2IrCl_6	Water	1
—, Hexachloroplatinate K_2PtCl_6	Water	330,331
—, Hexachlorostannate K_4SnCl_6	Water	322
—, Hexacyanochromate $K_3Cr(CN)_6$	Water	1
—, Hexacyanoferrate $K_4Fe(CN)_6$	Water	328,329
—, Hexacyanoferrate $K_3Fe(CN)_6$	Water	327
—, Hexafluogermanate K_2GeF_6	Water	1,346
—, Hexafluohafnate K_2HfF_6	Water	1
—, Hexafluophosphate KPF_6	Water	1,6544
—, Hexafluosilicate K_2SiF_6	Water	1,325
—, Hexafluothorate K_2ThF_6	Water	1
—, Hexafluotitanate K_2TiF_6	Water	1,345
—, Hexafluozirconate K_2ZrF_6	Water	1
—, Hexahydroxostannate $K_2Sn(OH)_6$	Water	1
—, Hexathiocyanatochromate $H_2Cr(CNS)_6$	Water	1
—, Hydroxide KOH	Ethanol	2393
	Methanol	2392
	Water	1,243,244
—, Hypophosphate $K_4P_2O_6$	Water	281
— —, mono-H, di-H and tri-H.	Water	281
— —, mono-H. tetrahydrogenhypophosphate	Water	281
—, Hypophosphite di-H. KH_2PO_2	Water	1
—, Iodate KIO_3	Water	265
— —, dihydrogeniodate	Water	1
— —, hydrogeniodate	Water	1
—, Iodide KI	Acetonitrile	2705
	Formic Acid	2703
	Methanol	2704
	Various Solvents	6576
	Water	256-259
—, Iodide. Mercury Cyanide $KI.Hg(CN)_2$	Water	1
—, Iodomercurate $KHgI_3$	Water	:
—, Iron Sulfate $K_2Fe(SO_4)_2$	Water	347
—, Lead Hexacyanocobaltate $KPbCo(CN)_6$	Water	1
—, Lead Hexacyanoferrate $KPbFe(CN)_6$	Water	1
—, Lithium Sulfate $Li_2K_2(SO_4)_2$	Water	77
—, Lithium Tartrate $LiK_2C_4H_4O_6$	Water	1
—, Magnesium Chromate $K_2Mg(CrO_4)_2$	Water	1
—, Magnesium Hexacyanoferrate $K_2MgFe(CN)_6$	Water	1
—, Magnesium Sulfate $K_2Mg(SO_4)_2$	Water	335
—, Manganese Vanadate $KMnV_5O_{14}$	Water	1
—, Metaperiodate KJO_4	Water	1
—, Methanedisulfonate $K_2CH_2O_6S_2$	Water	1
—, Molybdophosphate $K_3PO_4(MoO_3)_{11}$	Water	1
—, Naphthalene-1-Sulfonate $C_{10}H_7SO_3K$	Water	1
— —, 4-chloro —.	Water	1
— —, 5-chloro —.	Water	1
—, Naphthalene-2-Sulfonate	Water	1
—, 1-Naphthol-7-sulfonate $C_{10}H_7O_4SK$		
— —, 2,4-dinitro —.	Various Solvents	6273
—, 2-Naphthylamine-4,7-disulfonate $C_{10}H_7N_2S_2O_6K_2$	Water	1
—, 2-Naphthylamine-5,7-disulfonate		
— —, monopotassium	Water	371
—, 2-Naphthylamine-6,8-disulfonate		
— —, monopotassium	Water	371

POTASSIUM K

—, 2-Naphthylamine-1-sulfonate	$C_{10}H_9NO_3SK$		
—, 5-hydroxy —		Water	1
—, α -Naphthyl Sulfate	$KC_{10}H_7SO_4$	Water	1
—, β -Naphthyl Sulfate		Water	1
—, Neodymium Selenate	$KNd(SeO_4)_2$	Water	1
—, Neodymium Sulfate	$KNd(SO_4)_2$	Water	1
—, Nickel Citrate	$K_4Ni(C_6H_5O_7)_2$	Water	1
—, Nickel Sulfate	$K_2Ni(SO_4)_2$	Water	1,349,350
—, Nitrate	KNO_3	Water	278-280
—, Nitrite	KNO_2	Water	275-277
—, Oxalate	$C_2O_4K_2$	Water	1,355
—, hydrogentellurate	$K_2(H_6TeO_6 \cdot C_2O_4)$	Water	356
—, mono-H.	C_2HO_4K	Water	358
—, Pentaborate	$K_2B_{10}O_{16}$	Water	269
—, Pentachloroiodate	K_2IrCl_5	Water	1
—, Pentathionate	$K_2S_5O_6$	Water	297
—, Perchlorate	$KClO_4$	Water	266
—, Periodate	KIO_4	Water	267
—, Periodate	$K_4I_2O_9$	Water	268
—, Permanganate	$KMnO_4$	Deuterium Oxide	6574
		Water	316-318
—, Peroxyborate	KBO_3	Water	1
—, Peroxydisulfate	$K_2S_2O_8$	Water	293
—, Perrhenate	$KReO_4$	Water	319
—, Phenanthrene-2-sulfonate	$KC_{14}H_9SO_3$	Water	1
—, Phenanthrene-3-sulfonate		Water	1
—, Phenanthrene-10-sulfonate		Water	1
—, 3-chloro —		Water	1
—, Phosphate	K_3PO_4	Water	285
—, di-H.	KH_2PO_4	Water	283,284
—, di-H. trihydrogen phosphate	$KH_6(PO_4)_2$	Water	282
—, Phosphite, di-H.	KH_2PO_3	Water	1
—, Phthalate, mono-H.	$KC_8H_5O_4$	Water	1
—, Picrate	$KC_6H_2N_3O_7$	Water	1
—, Pyroselenite	$K_2Se_2O_5$	Water	314
—, Pyrosulfate	$K_2S_2O_5$	Water	292
—, d-Pyrotartrate		Water	203
—, di-Pyrotartrate	$C_5H_6O_6K_2$	Water	203
—, Rubidium Perchlorate	$KRb_2(ClO_4)_3$	Water	1
—, Ruthenium Nitrosylchloride	RuK	Water	1054
—, Selenate	K_2SeO_4	Water	311-313
—, Selenite	K_2SeO_3	Water	310
—, mono-H. dihydrogenselenite	$KH_3(SeO_3)_2$	Water	309
—, Sodium Sulfite			
—, mono-H.	$KNa_2H(SO_3)_2$	Water	1
—, Sodium Tartrate	$KNaC_4H_4O_6$	Water	1,202,203
—, Sodium Thio-sulfate	$KNaS_2O_3$	Water	1
—, Sulfate	K_2SO_4	Water	288-290
—, m-carboxyphenyl —	$KC_7H_5SO_6$	Water	1
—, mono-H.	$KHSO_4$	Water	287
—, ethyl —	$C_2H_5KSO_4$	Water	361,362
—, methyl —	CH_3KSO_4	Water	354
—, pentyl —	$C_5H_{11}KSO_4$	Water	366
—, phenyl —	$KC_6H_5SO_4$	Water	1
—, phenyl β -aminoethyl —	$KC_9H_{10}NSO_4$	Water	1
—, Sulfite	K_2SO_3	Water	286
—, Tartrate	$K_2C_4H_4O_6$	Water	1
—, mono-H.		Water	1,363-365
—, Tellurate	K_2TeO_4	Water	315

POTASSIUM K

—, Tetrachloroaurate KAuCl_4	Water	334
—, Tetrachlorostannate K_2SnCl_4	Water	321
—, Tetracyanomercurate $\text{K}_2\text{Hg}(\text{CN})_4$	Water	1
—, Tetracyanoplatinate $\text{K}_2\text{Pt}(\text{CN})_4$	Water	332
—, Tetracyanozincate $\text{K}_2\text{Zn}(\text{CN})_4$	Water	1
—, Tetrafluoroborate KBF_4	Water	1
—, Tetrathioantimonate K_3SbS_4	Water	326
—, Tetrathionate $\text{K}_2\text{S}_4\text{O}_6$	Water	296
—, Thiocyanate KCNS	Water	260
—, Thiosulfate $\text{K}_2\text{S}_2\text{O}_3$	Water	291
—, Tribromostannate KSnBr_3	Water	323
—, Trichlorostannate KSnCl_3	Water	320
—, Trifluoroberyllate KBeF_4	Water	1
—, Trioxalatocobaltate $\text{K}_3[\text{Co}(\text{C}_2\text{O}_4)_3]$	Water	357
—, Trithionate $\text{K}_2\text{S}_3\text{O}_6$	Water	295
—, Tungstate $\text{Pr}_2(\text{WO}_4)_3$	Water	1
—, Uranyl Butanoate $\text{KUO}_2(\text{C}_4\text{H}_7\text{O}_2)_3$	Water	1
—, Uranyl Carbonate $\text{K}_4\text{UO}_2(\text{CO}_3)_3$	Water	1
—, Uranyl Chloride $\text{UO}_2\text{K}_2\text{Cl}_2$	Water	351
—, Uranyl Nitrate $\text{UO}_2\text{K}(\text{NO}_3)_3$	Water	352
—, Uranyl Propanoate $\text{KUO}_2(\text{C}_3\text{H}_5\text{O}_2)_3$	Water	1
—, Uranyl Sulfate $\text{K}_2\text{UO}_2(\text{SO}_4)_2$	Water	1
—, Urate (acid) $\text{KC}_5\text{H}_3\text{N}_4\text{O}_3$	Water	1
—, Vanadate $\text{K}_3\text{V}_5\text{O}_{14}$	Water	1
—, Zinc Sulfate $\text{K}_2\text{Zn}(\text{SO}_4)_2$	Water	1,336
—, Zinc Vanadate $\text{KZnV}_5\text{O}_{14}$	Water	1

PRASEODYMIUM Pr

—, Acetate $\text{Pr}(\text{C}_2\text{H}_3\text{O}_2)_3$	Water	1
—, Benzene-1-sulfonate $\text{Pr}(\text{C}_6\text{H}_5\text{SO}_3)_3$	Water	859
—, 6-bromo-3-nitro—	Water	859
—, 3-chloro—	Water	859
—, 6-chloro-3-nitro—	Water	859
—, 3-nitro—	Water	859
—, Bromate $\text{Pr}(\text{BrO}_3)_3$	Water	853
—, Chloride PrCl_3	Pyridine	3337
—, Chromate $\text{Pr}(\text{ClO}_4)_3$	Water	1
—, Cobalt Nitrate $\text{Pr}_2\text{Co}_3(\text{NO}_3)_3$	Water	855
—, Glycolate $\text{Pr}_2(\text{C}_2\text{H}_3\text{O}_3)_3$	Water	1
—, Lactate $\text{Pr}(\text{C}_3\text{H}_5\text{O}_3)_3$	Water	1
—, Magnesium Nitrate $\text{Pr}_2\text{Mg}_3(\text{NO}_3)_3$	Water	855
—, Manganese Nitrate $\text{Pr}_2\text{Mn}_3(\text{NO}_3)_3$	Water	855,856
—, Molybdate $\text{Pr}_2(\text{MoO}_4)_3$	Water	1
—, Naphthalene-1-sulfonate $\text{Pr}_2(\text{C}_{10}\text{H}_7\text{SO}_3)_3$	Water	859
—, 5-nitro—	Water	859
—, 6-nitro—	Water	859
—, 7-nitro—	Water	859
—, Nickel Nitrate $\text{Pr}_2\text{Ni}_3(\text{NO}_3)_3$	Water	855
—, Nitrate $\text{Pr}(\text{NO}_3)_3$	Water	854
—, Nitrate $\text{Pr}(\text{NO}_3)_3$	Ethyl Ether	3338
—, Oxalate $\text{Pr}_2(\text{C}_2\text{O}_4)_3$	Water	1
—, Oxide Pr_2O_3	Water	1
—, Phosphate $\text{Pr}(\text{R}_2\text{PO}_4)_3$		
—, dimethyl—	Water	1
—, Selenate $\text{Pr}_2(\text{SeO}_4)_3$	Water	858
—, Sulfate $\text{Pr}_2(\text{SO}_4)_3$	Water	857,883
—, Zinc Nitrate $\text{Pr}_2\text{Zn}_3(\text{NO}_3)_3$	Water	855
PROCAINE $\text{C}_{13}\text{H}_{20}\text{N}_2\text{O}_2$	Sesame Oil	6377
—, Dichromate	Water	1658

PROCAINE $C_{15}H_{20}N_2O_2$		
—, Hydrochloride	Water	1
PROLINE $C_5H_9NO_2$		
—, Hydroxy	Acetic Acid	4777
	Butanoic Acid	5377
	Acetone	5157
PROPANE C_3H_8	N,N-Dimethylformamide	5234
	Ethanol	4843
	Hydrocarbon Blends	5244
	Methanol	4534
	2-Propanol	5243
	Water	1170
PROPANE		
—, 2-Amino—. see Isopropylamine		
—, 2,2-Bis(ethylsulfonyl)	Benzene	5827
	Various Solvents	6185,6186
	Water	1
—, Bromo—.	Water	1,1164
—, 2-Bromo—.	Water	1
—, Chloro—.	Water	1,1163
—, 2-Chloro—.	Water	1
—, 1-Chloro-2-methyl—.	Water	1
—, 1,3-Dibromo—.	Water	1
—, 1,2-Dichloro—.	Water	1
—, 1,3-Dichloro—.	Water	1
—, 1,3-Dicyano—.	Water	1241
—, 1-Ethoxy—.	Water	1279
—, 2-Ethoxy—.	Water	1280
—, 1-Iodo—.	Water	1,1165
—, 2-Isopropoxy—.	Water	1417,1418
—, 1-Methoxy—.	Water	1228
—, 1-Methoxy-1-methyl—.	Water	1277
—, 1-Methoxy-2-methyl—.	Water	1276
—, 2-Methoxy—.	Water	1229
—, 2-Methoxy-2-methyl—.	Water	1,1278
—, 2-Methyl—.	Ethanol	4858
	Methanol	4537
	2-Propanol	5248
—, Propoxy—.	Water	1416
PROPANEDIOIC ACID see Malonic Acid		
1,2-PROPANEDIOL $C_3H_8O_2$	Benzene	5285
—, Dihexadecanoate	Ethanol	5114
—, Dioctadecanoate	Ethanol	5114
—, Monohexadecanoate	Ethanol	5114
—, Monooctadecanoate	Ethanol	5114
1,3-PROPANEDIOL $C_3H_8O_2$	Benzene	5284
	Cyclohexane	5286
	Heptane	5287
—, Dihexadecanoate	Ethanol	5114
—, Dioctadecanoate	Ethanol	5114
—, Monohexadecanoate	Ethanol	5114
—, Monooctadecanoate	Ethanol	5114
PROPANENTRILE C_3H_5N	Water	1156
α -PROPANESULTONE $C_3H_6O_3S$		
—, α -Pentyl—.	Various Solvents	6229
PROPANOIC ACID $C_3H_6O_2$	Water	1159
—, Butyl ester	Water	1
—, Ethyl ester	Water	1
—, Methyl ester	Water	1,1202
—, Pentyl ester	Water	1

PROPANOIC ACID $C_3H_6O_2$	
—, Propyl ester	Water 1
—, 2-Amino-2-methyl—	Water 1216
—, Iodo—	Water 1
—, 2-Methyl—	Water 1200,1201
—, 3-Phenyl—	Benzene 5871
	Various Solvents 6270,6271
	Water 1576,1577
—, 3-Phenyl-2,3-dibromo—	Carbon Tetrachloride 4085
	Petroleum Ether 6267
—, Phosphono—	Water 1
—, 3-Ureido—	Ethanol 4856
	Water 1
1-PROPANOL C_3H_8O	Benzene 5251
	Carbon Dioxide 4228
	Various Solvents 5282
1-PROPANOL	
—, 2,2-Dimethyl—	Water 1274
—, 2-Methyl—	Water 1222-1225
—, Propoxy—	Water 1419
2-PROPANOL C_3H_8O	Various Solvents 5283
—, 2-Methyl—	Various Solvents 5533
PROPENAL C_3H_4O	Water 1152
PROPENE see Propylene	
2-PROPENE-1-ONE C_3H_4O	
—, 1,3-diphenyl-2-bromo-3-methoxy—	Ethanol 5012
	Ligroin 6418
	Formic Acid 4431
	Water 1
1,2,3-PROPENETRICARBOXYLIC ACID $C_6H_6O_6$	
PROPENOIC ACID $C_3H_4O_2$	
—, Trichloro—	Water 1150
PROPIOLIC ACID see Propynoic Acid	
PROPIONALDEHYDE C_3H_6O	Water 1
—, 2-Methyl—	Water 1
PROPYLAMINE C_3H_9N	Various Solvents 5321
	Water 1
—, 2-Methyl—	Glycol 5124
PROPYLENE C_3H_6	Benzene Heads 5153
	Cracked Benzene 5245
	Dichloroethane 4749
	Dimethylbenzene 5152
	Heavy Solvent 5155
	Kerosine 5154
	Nitrogen 1791
	Oxygen 1832,1833
	Water 1158
PROPYLENE	
—, 2-Methyl—	Ethanol 4850
—, 3-(2-Propenoxy)—	Water 1375
PROPYLENE GLYCOL see 1,2-Propanediol	
1-PROPYNE C_3H_4	
—, 1-Phenyl-3,3-diphenyl-3-methoxy—	Various Solvents 6486
—, 1,3,3-Triphenyl-3-ethoxy—	Various Solvents 6493
—, 1,3,3-Triphenyl-3-propoxy—	Various Solvents 6498
PROPYNOIC ACID $C_3H_2O_2$	Water 1151
—, Phenyl—	Various Solvents 6237
PSEUDOCUMENE C_9H_{12}	
—, Trichloro—	Benzene 5869
PSEUDOCUMIDINE $C_9H_{13}N$	Water 1586
PURPURIN $C_{14}H_8O_5$	Ethanol 5115

PUTRESCINE

—, 2,4-Dinitro-1-naphthol-7-sulfonate $C_{14}H_{13}N_4O_8S$

PYRAMIDON see Antipyrine, dimethylamino—.

PYRENE $C_{16}H_{10}$

PYRIDINE C_5H_5N

PYRIDINE

—, 2,3-Dimethyl—

—, 2,4-Dimethyl—

—, 2,6-Dimethyl—

—, 3,4-Dimethyl—

—, 3,5-Dimethyl—

—, 3-Ethyl—

—, 4-Ethyl—

—, α -Methyl—.

— —, helianthate

—, 2-Sulfanilamino— see Sulfapyridine

—, 2,4,6-Trimethyl—

2-PYRIDINECARBOXYLIC ACID $C_6H_5NO_2$

3-PYRIDINECARBOXYLIC ACID $C_6H_5NO_2$

3-PYRIDINECARBOXYLIC ACID

—, Hydrochloride

4-PYRIDINECARBOXYLIC ACID $C_6H_5NO_2$

PYRIDINIUM C_5H_5NX

—, Hexafluorophosphate

—, Tetrafluoromanganate

PYROCATECHOL $C_6H_6O_2$

—, Arsenate

PYROGALLOL $C_6H_6O_3$

PYRONE $C_5H_4O_2$

—, Dimethyl—

1,2-PYRONE $C_5H_4O_2$

—, 4,6-Dimethyl—

PYROTARTARIC ACID $C_3H_4O_4$

Various Solvents 6404

Ethanol 5011

Toluene 6154

Water 1,1688

Iodine Chloride 3907

Various Sugars 5643

Water 1239,1240

Water 1484

Water 1485

Carbon Tetrachloride 4080

Chloroform 4308

Tetrabromomethane 4144

Tribromomethane 4408

Tri-iodomethane 4410

Water 1486

Water 1487

Water 1488,1489

Water 1490

Water 1

Water 1562

Pyrazinecarboxylic Acid 5573

3-Pyridinecarboxylic Acid 5739

Ethanol 4872

Pyrazinecarboxylic Acid 5571

5-Thiazolecarboxylic Acid 5327

Water 1311

Water 1343

Pyrazinecarboxylic Acid 5572

2-Pyridinecarboxylic Acid 5740

3-Pyridinecarboxylic Acid 5738

Water 1312

Water 1

Acetic Acid 3933

Ethanol 3934

Acetone 5170

Benzene 5767

Carbon Tetrachloride 40

Chloroform 4284

Ethanol 4882

Ethyl Ether 5427

Ethanol 5025

Ethanol 4886

Ethyl Ether 54

Water 1

Carbon Tetrachloride 4079

Chloroform 4307

Water 1480

Alcohols 5648

Water 1

PYRROLE C ₄ H ₅ N	
—, Phenyl—	Sulfur Dioxide 3789
—, 2,3,4,5-Tetraiodo—	Various Solvents 5325
2-PYRROLECARBOXYLIC ACID C ₅ H ₅ NO ₂	Furancarboxylic Acid 5569
	2-Thiophenecarboxylic Acid 5566
2-PYRROLIDINECARBOXYLIC ACID C ₅ H ₉ NO ₂	
—, Hydroxy—	Acetic Acid 4777
	Butanolic Acid 5377
QUERCETIN C ₁₅ H ₁₀ O ₇	Various Solvents 6408
QUERCITRIN C ₂₁ H ₂₀ O ₁₁	Various Solvents 6481
QUINHYDRONE C ₁₂ H ₁₀ O ₄	Water 1
QUINIDINE C ₂₀ H ₂₄ N ₂ O ₂	Benzene 5950,5951
	Carbon Tetrachloride 4130
	Chloroform 4375,4376
	Ethanol 5049,5050
	Ethyl Acetate 5406
	Ethyl Ether 5513
	Methanol 4608
	Petroleum Ether 6476
	Various Solvents 6478
	Water 1
QUINIDINE	
—, Hydrobromide	Water 1694
—, Hydrochloride	Water 1694
—, Hydroiodide	Water 1694
—, Salicylate	Water 1694
—, Sulfate	Various Solvents 6517
	Water 1694
—, Tannate	Water 1694
—, Tartrate	Water 1694
— —, mono—H.	Water 1694
QUININE C ₂₀ H ₂₄ N ₂ O ₂	Acetone 5214
	Aniline 6013
	Benzene 5948,5949
	Carbon Tetrachloride 4129
	Chloroform 4374,4378
	Diethylamine 5545
	Ethanol 5046-5048
	Ethyl Acetate 5405
	Ethyl Ether 5512,5514
	Glycerol 5312,5313,5316
	Methanol 4607
	Petroleum Ether 6474
	Piperidine 5659
	Pyridine 5630
	Quinoline 6253
	Sesame Oil 6475
	Various Solvents 6477
	Water 1,1692
QUININE	
—, Acetate	Carbon Tetrachloride 4131
	Water 1693
— —, trichloro—	Water 1
—, Anisole	Water 1693
—, Arsenate	Water 1693
—, Benzoate	Water 1693
— —, o-hydroxy—	Chloroform 4378
	Ethanol 5054
	Ethyl Ether 5514

QUININE C₂₀H₂₄N₂O₂

—, Benzoate	Glycerol	5316
— —, o-hydroxy—	Water	1653,1692,1693
—, Chlorosulfonate	Water	1693
—, Chromate	Water	1693
—, Citrate	Ethyl Acetate	4131
	Water	1693
—, Dihydrobromide	Water	1693
—, Dihydrochloride	Chloroform	4377
	Ethanol	5051
	Water	1693
—, Formate	Carbon Tetrachloride	4131
—, Glycerophosphate	Ethanol	5105
	Water	1,1693
—, Guaiacol	Water	1693
—, Helianthate	Water	1
—, Hexabromoiridate	Water	1057
—, Hexachloroiridate	Water	1057
—, Hexacyanoferrate	Water	1693
—, Hydrate	Chloroform	4378
	Ethanol	5054
	Ethyl Ether	5514
	Glycerol	5316
—, Hydrobromide	Ethanol	5054
	Ethyl Ether	5514
	Glycerol	5316
	Water	1653,1692,1693
—, Hydrochloride	Ethanol	5054
	Ethyl Ether	5514
	Glycerol	5316
	Water	1653,1692,1693
—, Hydrochloride Sulfate	Ethanol	5052
—, Hydroiodide	Water	1693
—, Hypophosphite	Water	1,1693
—, Iodobismuthate	Acetone	5215
—, Lactate	Carbon Tetrachloride	4131
	Chloroform	4379
	Ethyl Acetate	5407
	Water	1653,1693
—, Malate	Ethyl Acetate	5407
—, Nitrate	Water	1693
—, Oxalate	Water	1693
—, Pentanoate	Water	1653,1693
—, Phenolsulfonate	Water	1693
—, Phosphate	Water	1693
—, Picrate	Water	1693
—, Propanoate	Carbon Tetrachloride	4131
—, Quinate	Water	1693
—, Succinate	Ethyl Acetate	5407
—, Sulfate	Chloroform	4378,4379
	Ethanol	5054
	Ethyl Acetate	5407
	Ethyl Ether	5514
	Glycerol	5315,5316
	Various Solvents	6518
	Water	1653,1692,1693
— —, mono-H.	Water	1693
— —, phenyl—.	Water	1693

QUININE $C_{20}H_{24}N_2O_2$		
—, Tannate	Ethanol	5053
	Water	1693
—, Tartrate	Ethyl Acetate	5407
	Water	1693
QUINIZARIN $C_{14}H_8O_4$	Water	1
QUINOLINE C_9H_7N	Diphenylamine	6247
	Water	1569
—, N-Ethyl Iodide	Chloroform	4323
	Water	1
—, Hellanthate	Water	1
—, Tetrafluoromanganate	Acetic Acid	3935
	Ethanol	3936
8-QUINOLINOL $C_{10}H_9NO$	Water	1594
QUINONE $C_6H_4O_2$	Heavy Water	5701
	Water	1
—, 2,5-Dimethyl—	Quinoline	6202
QUINONE CHLORIMIDE		
—, 2,6-Dibromo—	Water	1
QUINONE OXIME $C_6H_5NO_2$		
—, 2,6-Dibromo—	Water	1
RADON Rn	Acetone	1927
	Aniline	1931
	Benzene	1930
	Carbon Disulfide	1924
	Chloroform	1925
	Ethanol	1926
	Ethyl Acetate	1928
	Ethyl Ether	1929
	Hexane	1932
	Toluene	1933
	Various Solvents	1934,6570
	Water	39,40
RAFFINOSE $C_{18}H_{32}O_6$	Ethanol	5034
	Water	1,1648
RESORCINOL $C_6H_6O_2$	Acetic Acid	4781
	Acetone	5171
	Benzene	5768,5769
	1-Bromonaphthalene	5982
	Carbon Tetrachloride	4061
	Chloroform	4283
	Ethanol	4883-4885
	Ethyl Carbamate	5238
	Nitrobenzene	5741
	Various Acids	5983
	Various Alcohols	5984
	Water	1,1333-1335
—, 2,4,6-Trinitro—	Glycol Diacetate	5686
1-RHAMNOSE $C_6H_{12}O_5 \cdot H_2O$	1-Butanol	5436
	2-Butanol	5438
	Ethanol	4892
	Methanol	4555
	2-Methyl-1-propanol	5437
	2-Methyl-2-propanol	5439
	1-Propanol	5255
	2-Propanol	5256
	2-Propen-1-ol	5176
RHODIUM Rh		
Chloropentamminerhodium $[Rh(NH_3)_5Cl]X_2$		
—, Chloride	Water	1

RHODIUM Rh

Hexaminerhodium $Rh(NH_3)_6X_3$

—, Chloride	Water	1
—, Nitrate	Water	1
—, Sulfate	Water	1
RICININE $C_8H_5N_3O_2$	Various Solvents	6206
ROSANILINE $C_{20}H_{23}N_3O$	Pyridine	5627
	Water	1
p-ROSANILINE $C_{19}H_{21}N_3O$		
—, Triphenyl	Various Solvents	6516
ROSOLIC ACID $C_{19}H_{24}O_3$	Pyridine	5626
	Water	1
ROTENONE $C_{23}H_{22}O_6$	Various Solvents	6494
RUBIDIUM Rb		
—, Acetate $C_2H_3O_2Rb$	Water	418
—, Azide RbN_3	Water	1
—, Benzenesulfonate $Rb(C_6H_5SO_3)$		
— —, 4-bromo-2-nitro—	Water	419
— —, 4-chloro-2-nitro—	Water	419
— —, 5-chloro-2-nitro—	Water	419
— —, 6-chloro-3-nitro—	Water	419
— —, 2,4-dinitro—	Water	419
— —, 2-nitro—	Water	419
— —, 3-nitro—	Water	419
— —, 4-nitro—	Water	419
—, Benzoate $C_7H_5O_2Rb$	Water	420
— —, hydroxy—	Water	422
— —, 2-hydroxy—	Water	421
—, Bromate $RbBrO_3$	Water	392
—, Bromide $RbBr$	Acetone	2591
	Acetonitrile	2705
	Ammonia	2590
	Ethyl Carbamate	2592
	Formic Acid	2703
	Methanol	2704
	Water	1,390
—, Carbonate Rb_2CO_3	Ethanol	2601
— —, mono—H.	Water	1
—, Chlorate $RbClO_3$	Water	1,391
—, Chloride $RbCl$	Acetone	2588
	Acetonitrile	2705
	Ammonia	2582
	Ethanol	2589
	Formic Acid	2703
	Hydrazine	2583
	Methanol	2704, 2589
	Pentanol	2589
	Propanol	2589
	Selenium Oxychloride	2586
	Sulfur Dioxide	2584, 2585
	Water	1,389
—, Cobalt Sulfate $CoRb_2(SO_4)_2$	Water	412
—, Dibromiodide $RbIBr_2$	Carbon Tetrachloride	2593
	Water	1
—, Dichromate $Rb_2C_2O_7$	Water	1
—, Dodecawolframosilicate $Rb_8SiW_{12}O_{42}$	Water	1
—, Fluoride RbF	Acetone	2581
	Water	1
—, Formate CHO_2Rb	Water	416

RUBIDIUM Rb

—, Hexachloroiridate	Rb_2IrCl_6	Water	1
—, Hexachloroiridate	$Rb_2IrCl_6 \cdot H_2O$	Water	1
—, Hexachlorothallate	Rb_2TlCl_6	Water	1
—, Hexafluophosphate	$RbPF_6$	Water	1
—, Hexafluosilicate	Rb_2SiF_6	Water	1
—, Hexafluotitanate	Rb_2TiF_6	Water	1
—, Hexanitrocobaltate	$Rb_2Co(NO_2)_6$	Water	1
—, Hydroxide	$RbOH$	Water	1
—, Iodate	$RbIO_3$	Water	1
—, Iodide	RbI	Acetone	2595,2596
		Acetonitrile	2705
		Ammonia	2594
		Ethyl Carbamate	2597
		Formic Acid	2703
		Methanol	2704
		Various Solvents	2598
		Water	1
—, Methanedisulfonate	$Rb_2CH_2O_6S_2$	Water	1
—, chloro —		Water	1
—, Neodymium Sulfate	$RbNd(SO_4)_2$	Water	1
—, Oxalate Hydrogentellurate	$(C_2O_4H_6TeO_6)Rb_2$	Water	416
—, Paramolybdate	$(Rb_2O)_5(MoO_3)_{12}$	Water	1
—, Pentachloroiridate	$Rb_2IrCl_5 \cdot H_2O$	Water	1
—, Perchlorate	$RbClO_4$	Various Solvents	2599,2600
		Water	1,393
—, Periodate	$RbIO_4$	Water	1
—, Permanganate	$RbMnO_4$	Water	1
—, Picrate	$RbC_6H_2O(NO_2)_3$	Water	1
—, Potassium Nitroschloride	RuK_2C_15NO	Water	1054
—, Potassium Perchlorate	$KRb_3(ClO_4)_3$	Water	1
—, Pyrosulfite	$Rb_2S_2O_5$	Sulfur Dioxide	2603
—, Ruthenium Nitrosylchloride	$RuRb_2C_15NO$	Water	1054
—, dihydrate		Water	1054
—, Selenate	Rb_2SeO_4	Water	1
—, Succinate	$Rb_2C_4H_4O_4$		
—, tetrahydroxy —		Water	1
—, Sulfate	Rb_2SO_4	Sulfuric Acid	2602
—, Tartrate, mono — H.		Water	1
—, Tetrafluoborate	$RbBF_4$	Water	1
—, Tetraphenylborate	$RbC_{24}H_{20}B$	Acetone	2605
		Ethanol	2604
		Ethyl Ether	2606
—, Uranyl Chloride	$RbUO_2Cl_3$	Water	1
—, Uranyl Nitrate	$UO_2Rb(NO_3)_3$	Water	415
RUTHENIUM Ru			
—, Ammonium Nitrosylchloride	$Ru(NH_4)_2C_15NO$	Water	1054
—, Cesium Nitrosylchloride	$RuCs_2C_15NO$	Water	1054
—, dihydrate		Water	1054
—, Potassium Nitrosylchloride	RuK_2C_15NO	Water	1054
—, Rubidium Nitrosylchloride	$RuRb_2C_15NO$	Water	1054
—, dihydrate		Water	1054
SACCHARINE $C_7H_5NO_3S$			
		Ethanol	4901
		Trichloroethylene	4659
		Water	1
SALICIN $C_{13}H_{18}O_7$			
		Various Solvents	6376
SALICYLALDEHYDE $C_7H_7O_2$			
		Benzene	5811
		Water	1451
—, 5-Methyl —		Benzene	5841
		Water	1528

SALICYLIC ACID $C_7H_7O_3$	Benzene	5815-5818
	Benzine	6107
	1-Butanol	5457
	Carbon Tetrachloride	4077
	Chloroform	4303
	Cymene	6104
	Dichloroethylene	4694
	Ethanol	4909
	Glycerol	5294
	Heptane	6102
	Methanol	4565
	Trichloroethylene	4660
	Various Alcohols	6106
	Various Oils	6108
	Various Solvents	6109-6111
SALICYLIC ACID	Water	1
—, Methyl ester	Benzene	5905
—, Phenyl ester	Benzine	6373
	Camphor	6311
	Carbon Tetrachloride	4101
	Ethyl Carbamate	5242
	Pyridine	5604
	Thymol	6301
	Various Solvents	6372
—, Diiodo —.	Water	1
—, 3-Methyl —.	Benzene	5844
	Heptane	6174
	Water	1533
—, 4-Methyl —.	Benzene	5845
	Heptane	6175
	Water	1534
—, 5-Methyl —.	Benzene	5846
—, 5-Nitro —.	Water	1444
SAMARIUM Sm		
—, Acetate $Sm(C_2H_3O_2)_3$	Water	1
—, Benzenesulfonate $Sm(C_6H_5SO_3)_3$		
—, bromonitro —.	Water	1
—, 3-nitro —.	Water	1
—, Bromate $Sm(BrO_3)_3$	Water	871
—, Chloride $SmCl_3$	Pyridine	3342
	Water	870
—, Chromate $Sm(CrO_4)_3$	Water	1
—, Cobalt Nitrate $[Sm(NO_3)_6]Co_3$	Nitric Acid	3344
—, Glycolate $Sm(C_2H_3O_3)_3$	Water	1
—, Lactate $Sm(C_3H_5O_3)_3$	Water	1
—, Magnesium Nitrate $[Sm(NO_3)_6]Mg_3$	Nitric Acid	3344
—, Manganese Nitrate $[Sm(NO_3)_6]Mn_3$	Nitric Acid	3344
—, Nickel Nitrate $[Sm(NO_3)_6]Ni_3$	Nitric Acid	3344
—, Oxalate $Sm_2(C_2O_4)_3$	Water	1
—, Phosphate $Sm_2(R_2PO_4)_6$		
—, dimethyl —.	Water	1
—, Sulfate $Sm_2(SO_4)_3$	Hydrazine	3343
	Water	1,883
—, Zinc Nitrate $[Sm(NO_3)_6]Zn_3$	Nitric Acid	3344
SANTONIN $C_{15}H_{19}O_3$	Pyridine	5613
	Various Solvents	6413,6414
	Water	1
SARCOSINE $C_3H_7NO_2$	Water	1
SEBACIC ACID see Decanedioic Acid		

SELENIC ACID H_2SeO_4	Water	991
SELENIOS ACID H_2SeO_3	Water	990
SELENIUM Se	Carbon Disulfide	2067
	Diiodomethane	2068
	Various Solvents	3841
	Water	989
—, Dioxide SeO_2		
—, 3-Nitrophenyldimethyl —. $SeC_8H_{11}NO_7R$		
— —, picrate	Water	1
—, 4-Nitrophenyldimethyl —.		
— —, picrate	Water	1
dl-SERINE $C_3H_7NO_3$	Acetic Acid	4773
	Water	1169
SILICON Si	Lead	1965
	Silver	1963
	Zinc	1964
Cyclotetra siloxane R_4SiO_4		
—, Tetradimethyl —	P erfluoroheptane	6064
	P erfluoromethylcyclohexane	6059
—, Hexaiodide Si_2I_6	Carbon Disulfide	3395
—, Hydride SiH_4	Clyclohexanol	3381
—, Tetrachloride $SiCl_4$	Azobenzene	3393
	Ethanol	3385
	Ethyl Acetoacetate	3388
	Ethyl Malonate	3390
	Methoxybenzene	3389
	Naphthalene	3391
	Phenoxybenzene	3392
	1-Propanol	3386
	Sulfur Dioxide	3384
	Various Solvents	3382
—, Tetrafluoride SiF_4	Carbon Disulfide	3396
—, Tetraiodide SiI_4	Water	1
SILICOTUNGSTIC ACID $H_6SiW_{12}O_{42}$	Mercury	1945-1947
SILVER Ag	Silver Chloride	1944
	Sulfur Dioxide	2657
—, Acetate $AgC_2H_3O_2$	Various Solvents	2658
	Water	1,445
— —, chloro —.	Water	1
— —, phenyl —.	Various Solvents	2668
	Water	1
—, Adipate $Ag_2C_6H_8O_4$		
— —, β -methyl —	Water	1
—, Anthracene Sulfonate $AgC_{14}H_8SO_3$	Water	1
—, Arsenate Ag_3AsO_4	Water	1
—, Arsenite Ag_3AsO_3	Water	1
—, Benzoate $C_7H_5O_2Ag$	Various Solvents	2665
	Water	1
— —, 4-chloro —.	Various Solvents	2663
	Water	1
— —, 2-hydroxy —.	Various Solvents	2666
	Water	1
— —, 4-hydroxy —.	Various Solvents	2667
	Water	1
— —, methoxy —.	Water	1
— —, 4-nitro —.	Various Solvents	2664
	Water	1
—, Bromate $AgBrO_3$	Water	1,432
—, Bromide $AgBr$	Ammonia	2618, 2619
	3-Butenoic Acid	2623
	2-Buten-1-ol	2624, 2625

SILVER Ag

—, Bromide AgBr	3-Buten-2-ol	2626
	Ethanol	2621
	Methanol	2620
	2-Methyl-2-buten-1-ol	2628
	1-Penten-3-ol	2627
	Phenol	2629
	2-Propen-1-ol	2622
	Water	1,428
—, Butanoate C ₄ H ₇ O ₂ Ag	Various Solvents	2659
	Water	447
— —, 2-ethyl —	Water	457,458
— —, 2-methyl —	Water	452,453
— —, 3-methyl —	Various Solvents	2660
	Water	455
	Various Solvents	2670
—, Carbonate Ag ₂ CO ₃	Water	1
—, Chlorate AgClO ₃	Water	1
—, Chloride AgCl	Ammonia	2610-2612
	Ethanol	2615
	Methanol	2614
	Pyridine	2616
	Sulfur Dioxide	2613
	Various Solvents	2617
	Water	1,426
— —, allylthiourea C ₄ H ₇ N ₂ S AgCl	Water	427
— —, 3-thiourea AgCl.(CH ₄ N ₂ S) ₃	Water	1
— —, 5-thiourea AgCl.(CH ₄ N ₂ S) ₅	Water	1
—, Chlorite AgClO ₂	Water	431
—, Chromate Ag ₂ CrO ₄	Water	1,440,441
—, Cinnamate AgC ₉ H ₇ O ₂	Water	1
—, Citrate Ag ₃ C ₆ H ₅ O ₇	Water	1
—, Cyanate AgCNO	Water	1
—, Dichromate Ag ₂ C ₂ O ₇	Water	1
—, Dicyanamide AgC ₂ N ₃	Water	1
—, Dicyanohallate AgTl(CN) ₂	Water	1
—, Diethylthiothionocarbamate C ₅ H ₁₀ NS ₂ Ag	Various Solvents	2661
—, Difluoride AgF ₂	Hydrogen Fluoride	2609
—, Dodecanoate C ₁₂ H ₂₅ O ₂ Ag	Various Solvents	2671
—, Fluometaphosphate Ag ₂ PO ₃ F	Water	1
—, Fluoride AgF	Bromine Trifluoride	2233
	Hydrogen Fluoride	2607,2608
	Water	424,425
—, Fulminate Ag ₂ C ₂ N ₂ O ₂	Water	1
—, Fumarate Ag ₂ C ₄ H ₂ O ₄	Water	1
—, Helianthate AgC ₁₄ H ₁₄ N ₃ SO ₃	Water	1
—, Heptanoate C ₇ H ₁₃ O ₂ Ag	Water	459,460
—, Hexa.antipyrine Ag(C ₁₁ H ₁₂ N ₂ O) ₆		
— —, perchlorate	Water	1
—, Hexacyanoferrate Ag ₆ Fe(CN) ₆	Water	1
—, Hexadecanoate C ₁₆ H ₃₁ O ₂ Ag	Various Solvents	2673,2674
	Water	1
—, Hexafluogermanate Ag ₂ GeF ₆	Water	1,443
—, Hexanoate AgC ₆ H ₁₁ O ₂	Water	1,456
—, Iodate AgIO ₃	Water	1,433
—, Iodide AgI	Ammonia	2630,2631
	Ethanol	2634
	Methanol	2633
	Sulfur Dioxide	2632
	Water	1,430

SILVER Ag

—, Malate $Ag_2C_4H_4O_5$	Water	1
—, Maleate $Ag_2C_4H_2O_4$	Water	1
—, Metaborate $AgBO_2$	Water	1
—, Methanedisulfonate $Ag_2CH_2O_6S_2$	Water	1
—, Molybdate Ag_2MoO_4	Water	6546
—, Naphthalene-1-sulfonate $AgC_{10}H_7SO_3$		
—, 5-chloro—	Water	1
—, Naphthalene-2-sulfonate	Water	1
—, α -Naphthoate $AgC_{11}H_7O_2$	Water	1
—, Nitrate $AgNO_3$	Acetic Acid	2645
	Acetone	2647
	Acetonitrile	2644
	Ammonia	2641
	Benzene	2650
	Benzonitrile	2652
	Ethanol	2646
	Hydrazine	2642
	Methanol	2643
	Phenol	2651
	Pyridine	2648,2649
	Various Solvents	2653,2654
	Water	437,438
—, Nitrite $AgNO_2$	Acetonitrile	2640
	Water	436
—, Nitroso- β -phenylhydroxylamine $AgC_6H_5N_2O_2$	Water	1
—, Nonanoate $C_9H_{17}O_2Ag$	Various Solvents	2669
—, Octadecanoate $C_{18}H_{35}O_2Ag$	Various Solvents	2675,2676
	Water	1
—, Oxalate $Ag_2C_2O_4$	Water	1,444
—, Oxide Ag_2O	Water	423
—, Pentanoate $AgC_5H_9O_2$	Water	1,454
—, 4-oxo—	Water	449
—, 2-propyl—	Water	1
—, Perchlorate $AgClO_4$	Benzene	2639
	2-Ethoxyethanol	2636
	Furfural	2637
	Pyridine	2638
	Toluene	6577
	Water	434,435
—, Perrhenate $AgReO_4$	Water	1
—, Phenanthrenesulfonate $AgC_{14}H_9SO_3$	Water	1
—, Phenoxide C_6H_5OAg		
—, 2,5-dinitro—	Various Solvents	2662
—, Phosphate Ag_3PO_4	Water	1
—, Propanoate $C_3H_5O_2Ag$	Water	446
—, 2,2-dimethyl—	Water	450,451
—, 2-methyl—	Water	448
—, Salicylate $C_7H_5O_3Ag$	Various Solvents	2666
	Water	1
—, Selenate Ag_2SeO_4	Water	442
—, Selenide Ag_2Se	Ammonium Hydroxide	2655
—, Selenite $AgRSeO_3$		
—, dimethylphenyl—	Water	1
—, Selenocyanate $AgSeCn$	Water	1
—, Succinate $Ag_2C_4H_4O_4$	Water	1
—, Sulfate Ag_2SO_4	Water	1,439
—, Tartrate $Ag_2C_4H_4O_6$	Water	1
—, Telluride Ag_2Te	Ammonium Hydroxide	2656
—, Tetradecanoate $C_{14}H_{27}O_2Ag$	Various Solvents	2672

SODIUM Na

—, Bromide NaBr	
—, Butanoate C ₄ H ₇ O ₂ Na	
—, Cacodylate NaC ₂ H ₆ O ₂ As	
—, Cadmium Bromide NaCdBr ₃	
—, Cadmium Iodide NaCdI ₃	
—, Cadmium Iodide Na ₂ CdI ₄	
—, Cadmium Sulfate Na ₂ Cd(SO ₄) ₂	
—, Camphorcarbonate C ₁₁ H ₁₅ O ₃ Na	
—, Carbonate Na ₂ CO ₃	
—, mono-H.	
—, Cesium Sulfate, NaCsSO ₄	
—, Chlorate NaClO ₃	
—, Chloride NaCl	
—, Cholanate C ₂₁ H ₃₉ O ₂ Na	
—, Chromate Na ₂ CrO ₄	
—, Cinnamate NaC ₉ H ₇ O ₂	
—, Citrate C ₆ H ₇ O ₇ Na	
—, Cyanate NaCNO	
—, Cyanide NaCN	
—, Cymenesulfonate C ₁₀ H ₁₃ SO ₃ Na	
—, Decanesulfonate C ₁₀ H ₂₁ SO ₃ Na	
—, Decanoate C ₁₀ H ₁₉ O ₂ Na	

Formic Acid	2703
Hydrazine	2270
Methanol	2273,2274,2704
Propanol	2279
Sulfur Dioxide	2271,2272
Water	102
Acetone	2374
Butanoic Acid	2375
Methanol	2373
Water	1
Ethanol	2353
Ethyl Ether	2354
Water	1
Water	1
Ethanol	2355
Ethyl Ether	2356
Water	189
Various Solvents	2385
Water	121,122
Water	119,120
Water	1
Water	108-111
Acetic Acid	2252
Acetone	2257
Acetonitrile	2705
Alcohols	2266,2267
Aluminum Bromide	2241
Ammonia	2242,2243
Butanol	2262,2263
Ethanol	2253-2255
Ethyl N-Ethylcarbamate	2265
Formic Acid	2703
Glycol	2256
Heavy Water	2238
Hydrazine	2245
Hydrogen Peroxide	2239
Hydroxylamine	2244
Methanol	2249-2251,2704
2-Methyl-1-propanol	2264
Potassium Chloride	2240
1-Propanol	2258-2260
2-Propanol	2261
Selenium Oxychloride	2248
Sulfur Dioxide	2238,2246,2247
Water	95-101
Water	240
Methanol	2347
Water	1,170,171
Water	1
Ethanol	2379
Benzene	2304
Ethanol	2303
Methanol	2302
Sulfur Dioxide	2301
Water	105
Water	225
Water	226,242
Glycol	2389
Propylene Glycol	2390

SODIUM Na

—, Dichromate $\text{Na}_2\text{Cr}_2\text{O}_7$	Ethanol	2348
	Water	1,173,174
—, Dicyanoargentate $\text{NaAg}(\text{CN})_2$	Water	1
—, Diethylbarbiturate $\text{C}_8\text{H}_{11}\text{N}_2\text{O}_3\text{Na}$	Water	222
—, Diphenyl-bis- α -naphthylaminesulfonate (Congo Red)	Water	1
—, Dithionate $\text{Na}_2\text{S}_2\text{O}_6$	Water	168,169
—, Dithionite $\text{Na}_2\text{S}_2\text{O}_4$	Water	158
—, Dodecanesulfonate $\text{C}_{12}\text{H}_{25}\text{SO}_3\text{Na}$	Water	228,242
—, Dodecanesulfate $\text{C}_{12}\text{H}_{25}\text{SO}_4\text{Na}$	Water	229
—, Dodecanitrorhodonate $\text{Na}_6\text{Rh}_2(\text{NO}_2)_{12}$	Water	1
—, Dodecanoate $\text{C}_{12}\text{H}_{23}\text{O}_2\text{Na}$	Glycol	2389
	Propylene Glycol	2390
	Water	227
—, Ennefluozirconate Na_9ZrF_9	Water	1
—, Fluoride NaF	Acetone	2236
	Acetonitrile	2705
	Ammonia	2230
	Bromine Trifluoride	2233
	Butanol	2237
	Ethanol	2235
	Hydrogen Fluoride	2232
	Hydrogen Peroxide	2229
	Methanol	2234,2704
	Sulfur Dioxide	2231
	Water	94
—, Fluoride Phosphate $\text{Na}_3\text{PO}_4\cdot\text{NaF}$	Water	1
—, Formate CHO_2Na	Acetic Acid	2359
	Methanol	2358
	Water	195-197
—, Fumarate $\text{Na}_2\text{C}_4\text{H}_2\text{O}_4$	Water	1
—, Fumarate, mono-H.	Water	1
—, Gluconate $\text{NaC}_6\text{H}_{11}\text{O}_7$	Water	1
—, Glycerophosphate $\text{Na}_2\text{PO}_4\cdot\text{C}_3\text{H}_5(\text{OH})_2$	Glycerol	2370
	Water	1
—, Hexachloroiridate Na_7IrCl_6	Water	193
—, Hexacyanoferrate $\text{Na}_4\text{Fe}(\text{CN})_6$	Water	187
—, Hexadecanesulfate $\text{C}_{16}\text{H}_{33}\text{SO}_4\text{Na}$	Water	237
—, Hexadecanesulfonate $\text{C}_{16}\text{H}_{33}\text{SO}_3\text{Na}$	Water	238,242
—, Hexadecanoate $\text{C}_{16}\text{H}_{31}\text{O}_2\text{Na}$	Glycol	2389
	Hexadecanoic Acid	2388
	Propylene Glycol	2390
	Water	1,236
—, Hexafluoaluminate Na_3AlF_6	Water	1
—, Hexafluogermanate Na_2GeF_6	Water	194
—, Hexafluosilicate Na_2SiF_6	Water	186
—, Hexafluotitanate Na_2TiF_6	Ethanol	2352
	Water	1
—, Hexahydroxostannate $\text{Na}_6\text{Sn}(\text{OH})_6$	Water	124,125
—, Hexanoate $\text{C}_6\text{H}_{11}\text{O}_2\text{Na}$	Glycol	2389
	Propylene Glycol	2390
—, Hydroxide NaOH	Ammonia	2226
	Ethanol	2228
	Methanol	2227
	Water	1,92,93
—, Hypochlorite NaClO	Water	107
—, Hypophosphate $\text{Na}_4\text{P}_2\text{O}_6$	Water	1,143
—, di-H.	Water	1,141
—, mono-H.	Water	1,142
—, tri-H.	Water	140

SODIUM Na

—, Hypophosphite Na_3PO_2	Water	1
—, di-H.	Water	113
—, Iodate NaIO_3	Acetamide	2288
—, Iodide NaI	Acetone	2291-2294
	Acetonitrile	2705
	Alcohols	2298, 2299
	Ammonia	2283
	Benzyl Alcohol	2297
	2-Butanone	2296
	Ethanol	2289, 2290
	Formic Acid	2703
	Hydrazine	2284
	Methanol	2287, 2704
	2-Propenol	2295
	Sulfur Dioxide	2285, 2286
	Various Solvents	2300
—, Iodide NaI	Water	103, 104
—, Iodide. Mercury cyanide NaI.Hg(CN)_2	Water	1
—, Lithium Sulfate $\text{Li}_2\text{Na}_2(\text{SO}_4)_2$	Water	76
—, Lithium Tartrate $\text{LiNaC}_4\text{H}_4\text{O}_6$	Water	1
—, Maleate $\text{Na}_2\text{C}_4\text{H}_2\text{O}_4$	Water	1
—, mono-H.	Water	1
—, Metaborate NaB_2O_4	Water	1
—, Metagermanate Na_2GeO_3	Water	123
—, Metavanadate NaVO_3	Water	149
—, Methanedisulfonate $\text{Na}_2\text{CH}_2\text{O}_6\text{S}_2$	Water	1
—, chloro-	Water	1
—, Methenesulfonate $\text{CH}_3\text{SO}_3\text{Na}$		
—, hydroxy-	Glycerol	2361
	Methanol	2360
—, Molybdate Na_2MoO_4	Water	182
—, Naphthalenesulfonate $\text{C}_{10}\text{H}_7\text{SO}_3\text{Na}$	Methanol	2384
—, 10-chloro-	Water	241
—, Naphthalene-1-sulfonate	Water	224
—, Naphthalene-2-sulfonate	Water	241
—, 2-Naphthylamine-5,7-disulfonate $\text{C}_{10}\text{H}_7\text{N}(\text{SO}_3)_2\text{Na}_2$	Water	241
—, mono-H.	Water	241
—, 2-Naphthylamine-6,8-disulfonate	Water	241
—, mono-H.	Water	241
—, Neodymium Selenate $\text{NaNd}(\text{SeO}_4)_2$	Water	1
—, Nitrate NaNO_3	Water	1, 128-130
—, Nitrite NaNO_2	Water	127
—, Octadecanesulfonate $\text{C}_{18}\text{H}_{37}\text{SO}_3\text{Na}$	Water	239, 242
—, Octadecanoate $\text{C}_{18}\text{H}_{35}\text{O}_2\text{Na}$	Glycol	2389
	Propylene Glycol	2390
—, 9-Octadecenoate $\text{C}_{18}\text{H}_{33}\text{O}_2\text{Na}$	Water	1
—, Octanesulfonate $\text{C}_8\text{H}_{17}\text{SO}_3\text{Na}$	Water	242
—, Octanoate $\text{C}_8\text{H}_{15}\text{O}_2\text{Na}$	Glycol	2389
	Propylene Glycol	2390
—, Oxalate $\text{C}_2\text{H}_4\text{Na}_2$	Formic Acid	2362
	Water	200
—, Oxide Chromate $\text{Na}_2\text{CrO}_4.\text{Na}_2\text{O}$	Water	172
—, Paramolybdate $\text{Na}_{10}\text{Mo}_{12}\text{O}_{41}$	Water	1
—, Paratungstate $\text{Na}_{10}\text{W}_{12}\text{O}_{41}$	Water	184, 185
—, Pentaborate $\text{Na}_2\text{B}_{10}\text{O}_{16}$	Water	118
—, Pentanoate $\text{C}_5\text{H}_9\text{O}_2\text{Na}$	Glycol	2389
	Propylene Glycol	2390
—, Perchlorate NaClO_4	Water	114, 115

SODIUM Na

—, Periodate NaIO_4	Water	116
—, Perrhenate NaReO_4	Ethanol	2349
—, 2-Phenanthrenesulfonate $\text{C}_{14}\text{H}_9\text{SO}_3\text{Na}$	Water	241
—, 3-Phenanthrenesulfonate	Water	241
—, 10-Phenanthrenesulfonate	Water	241
—, Phenolsulfonate $\text{C}_6\text{H}_5\text{OSO}_3\text{Na}$	Water	1,241
—, Phenoxide $\text{C}_6\text{H}_5\text{ONa}$		
— —, 4-nitro—	Water	208
—, Phosphate Na_3PO_4	Water	138, 139
— —, di—H.	Water	132, 133
— —, di—H. trihydrogenphosphate	Water	134
— —, mono—H.	Water	135-137
— —, tri—H.	Water	144
— —, methyl—	Water	1
—, Phosphite Na_3PO_3		
— —, di—H.	Water	1
— —, mono—H.	Water	131
—, Picrate $\text{NaC}_6\text{H}_2\text{N}_3\text{O}_7$	Water	1
—, Potassium Tartrate $\text{C}_4\text{H}_4\text{O}_6\text{NaK}$	Acetone	2372
—, Propanoate $\text{C}_3\text{H}_5\text{O}_2\text{Na}$	Water	1,202, 203
	Glycol	2389
	Methanol	2369
	Propylene Glycol	2390
—, 3-Pyridinecarboxylate $\text{C}_6\text{H}_4\text{NO}_2\text{Na}$	Water	207
—, Pyroantimonate $\text{Na}_4\text{Sb}_2\text{O}_7$		
— —, di—H.	Water	152
—, Pyrophosphate $\text{Na}_4\text{P}_2\text{O}_7$	Water	147, 148
— —, di—H.	Water	145, 146
— —, mono—H.	Water	1
—, Pyroselenite $\text{Na}_2\text{S}_2\text{O}_5$	Water	181
—, Pyrosulfite $\text{Na}_2\text{S}_2\text{O}_5$	Water	159
—, Salicylate $\text{NaC}_7\text{H}_5\text{O}_3$	Methanol	2381
	1-Propanol	2382
	Water	1,216
—, Selenate Na_2SeO_4	Water	179, 180
—, Selenite Na_2SeO_3	Water	178
— —, mono—H. dihydrogenselenite	Water	177
—, Succinate $\text{C}_4\text{H}_4\text{O}_4\text{Na}_2$	Methanol	2371
	Water	201
— —, mono—H.	Water	204
—, Sulfate Na_2SO_4	Ethanol	2342
	Methanol	2341
	2-Propanol	2343
	Sulfuric Acid	2340
	Water	160-165
— —, mono—H.	Ethanol	2345
	Formic Acid	2344
	Water	1
— —, phenyl	Ethanol	2378
— —, phenyl- β -aminoethyl—	Water	1
—, Sulfathiazole $\text{C}_9\text{H}_8\text{N}_3\text{S}_2\text{O}_2\text{Na} \cdot 6\text{H}_2\text{O}$	Water	223
—, Sulfide Na_2S	Water	153, 154
—, Sulfite Na_2SO_3	Water	1,155-157
—, Tellurate Na_2TeO_4	Water	1
—, Tetraborate $\text{Na}_2\text{B}_4\text{O}_7$	Water	117
—, Tetrachloraurate NaAuCl_4	Water	188
—, Tetrachromate $\text{Na}_2\text{Cr}_4\text{O}_{13}$	Water	176
—, Tetradecanesulfate $\text{C}_{14}\text{H}_{29}\text{SO}_4\text{Na}$	Water	234
—, Tetradecanesulfonate $\text{C}_{14}\text{H}_{29}\text{SO}_3\text{Na}$	Water	233, 242

SODIUM Na

—, Tetradecanoate $C_{14}H_{27}O_2Na$	Glycol	2389
	Propylene Glycol	2390
	Water	232
—, Tetraethoxyborate $(RO)_4BNa$	Ethanol	2383
—, Tetrafluoberyllate Na_2BeF_4	Water	190
—, Tetrafluoborate $NaBF_4$	Ethanol	235 1
	Methanol	2350
—, Tetraisopropoxyborate $(RO)_4BNa$	2-Propanol	2386
	Tetrahydrofuran	2387
	Methanol	2376
—, Tetramethoxyborate $(RO)_4BNa$	Water	1
—, Tetramolybdate $Na_2Mo_4O_{13}$	Water	151
—, Tetrathioantimonate Na_3SbS_4	Ethanol	2357
—, Thiocarbonate Na_2CS_3	Water	106
—, Thiocyanate $NaCNS$	Ethanol	2346
—, Thiosulfate $Na_2S_2O_3$	Water	166, 167
—, p-Toluenesulfonate $C_7H_7SO_3Na$	Water	219
—, Trichromate $Na_2Cr_3O_{10}$	Water	175
—, Trifluoberyllate $NaBeF_3$	Water	1
—, Trimolybdate $Na_2Mo_3O_{10}$	Water	1
—, Tungstate Na_2WO_4	Water	183
—, Uranyl Chromate $Na_2UO_2(CrO_4)_2$	Water	1
—, Urate $NaC_5H_3N_4O_3$	Water	1
SOLANINE $C_52H_93NO_{18}$	Water	1
SPARTEINE $C_{15}H_{26}N_2$	Water	1644
—, Sulfate	Ethanol	5009
	Water	1

STEARIC ACID see Octadecanoic Acid

STRONTIUM Sr

—, Acetate	Acetic Acid	3028
	Methanol	3027
	Water	741
—, Ammonium Sulfate $(NH_4)_2Sr(SO_4)_2$	Water	545
—, Anthracene-1-sulfonate $Sr(C_{14}H_9SO_3)_2$	Water	748
—, Anthraquinone-1,5-disulfonate $C_{14}H_6S_2P_8Sr$	Water	746
—, Anthraquinone-1,8-disulfonate	Water	746
—, Anthraquinone-2,6-disulfonate	Water	746
—, Anthraquinone-2,7-disulfonate	Water	746
—, Anthraquinone-1-sulfonate $Sr(C_{14}H_7SO_3)_2$	Water	746
—, Anthraquinone-2-sulfonate	Water	746
—, Azide SrN_6	Water	1
—, Benzenesulfonate $Sr(C_6H_5SO_3)_2$	Water	748
—, Benzoate $Sr(C_7H_5O_2)_2$	Water	744, 745
—, 2-bromo—	Acetone	3031
—, 2-chloro—	Acetone	3031
—, 4-chloro—	Water	745
—, 2-hydroxy—	Water	1
—, 4-hydroxy—	Water	745
—, 2-iodo—	Acetone	3031
—, 4-methoxy—	Water	745
—, 4-nitro—	Water	745
—, Bromate $Sr(BrO_3)_2$	Water	1
—, Bromide $SrBr_2$	Acetone	3008
	Ammonia	3004
	Ethanol	3006, 3007
	Methanol	3005
	4-Hydroxy-4-Methyl-2-Pentanone	3010
	3-Methyl-1-Butanol	3009

STRONTIUM Sr

—, Bromide SrBr ₂	Water	718,719
—, Cacodylate SrC ₄ H ₁₂ O ₄ As ₂	Ethanol	3030
	Methanol	3029
	Water	742
—, Carbonate SrCO ₃	Water	1
—, Chlorate Sr(ClO ₃) ₂	Water	1
—, Chloride SrCl ₂	Acetic Acid	3002
	Deuterium Oxide	2998
	Ethanol	3003
	Formic Acid	3000
	Hydrazine	2999
	Methanol	3001
	Water	715-717
—, Chromate SrCrO ₄	Water	729
—, Cinnamate Sr(C ₉ H ₇ O ₂) ₂	Water	1
—, Citrate Sr ₃ (C ₆ H ₅ O ₇) ₂	Water	743
—, Dithionate SrS ₂ O ₆	Water	727
—, Fluometaphosphate SrPO ₃ F	Water	1
—, Fluoride SrF ₂	Hydrogen Fluoride	2997
	Water	1,714
—, Formate (CHO ₂) ₂ Sr	Water	732,733
—, Fumarate SrC ₄ H ₂ O ₄	Water	1
—, Glycerophosphate SrC ₃ H ₇ O ₂ PO ₄	Water	1,735
—, Glycolphosphate SrC ₂ H ₅ OPO ₄	Water	1,735
—, Helianthate Sr(C ₁₄ H ₁₄ N ₅ SO ₃) ₂	Water	1
—, Hexa. antipyrine Sr(C ₁₁ H ₁₂ N ₂ O) ₆ X ₂		
— —, tetrafluoroborate	Water	1
—, Hydroxide Sr(OH) ₂	Water	713
—, Iodate Sr(IO ₃) ₂	Water	1
—, Iodide SrI ₂	Ammonia	3011
	Ethanol	3013
	4-Methyl-2-pentanone	3015
	4-Methyl-3-penten-2-one	3014
	Sulfur Dioxide	3012
	Water	720
—, Iodide. Mercury Cyanide SrI ₂ Hg(CN) ₂	Water	1
—, Malate C ₄ H ₄ O ₅ Sr	Water	737,738
—, Malonate C ₃ H ₂ O ₄ Sr	Water	734
—, Methanedisulfonate SrCH ₂ O ₆ S ₂	Water	1
—, Molybdate SrMoO ₄	Water	1
—, Naphthalene-1-sulfonate Sr(C ₁₀ H ₇ SO ₃) ₂		
— —, 5-chloro-	Water	748
—, Naphthalene-2-sulfonate		
— —, 6-hydroxy-	Water	748
—, 2-Naphthylamine-5,7-disulfonate C ₁₀ H ₇ N(SO ₃) ₂ Sr	Water	748
—, 2-Naphthylamine-6,8-disulfonate	Water	748
—, Nitrate Sr(NO ₃) ₂	Ammonia	3018
	2-Butoxyethanol	3025
	Ethanol	3017,3020
	2-Ethoxyethanol	3023
	Hydrazine	3019
	2-Methoxyethanol	3022
	2-Propanol	3021
	Pyridine	3024
	Water	722,723
—, Nitrite Sr(NO ₂) ₂ H ₂ O	Water	1,721
—, Oxalate SrC ₂ O ₄	Water	1,730,731
—, Oxide SrO	Strontium Chloride	2996
	Water	712

STRONTIUM Sr

—, Perchlorate $Sr(ClO_4)_2$

—, Permanganate $Sr(MnO_4)_2$

—, Phosphate RPO_4Sr

— —, allyl—.

— —, ethyl—.

— —, isobutyl—.

— —, isopropyl—.

— —, methyl—.

— —, propyl—.

—, Salicylate $Sr(C_7H_5O_3)_2$

—, Succinate $SrC_4H_4O_4$

—, Sulfate $SrSO_4$

—, Tartrate $C_4H_4O_6Sr.3H_2O$

—, Tetrathionate SrS_4O_6

—, Thiosulfate SrS_2O_3

—, Tungstate SrW_2O_7

STRYCHNINE $C_{21}H_{22}N_2O_2$

Various Solvents 3016

Water 1

Water 1

Water 747

Water 747

Water 747

Water 747

Water 747

Water 747

Water 1

Water 1,736

Formic Acid 3026

Water 724,725

Water 739,740

Water 728

Water 726

Water 1

Acetone 5216

Aniline 6014

Benzene 5952,5953

Carbon Tetrachloride 4132,4133

Chloroform 4383

p-Cymene 6300

Diethylamine 5546

Ethanol 5060,5061

Ethyl Acetate 5408

Ethyl Ether 5515-5517

Glycerol 5317

Methanol 4609

Olive Oil 6485

1-Pentanol 5667

Petroleum Ether 6483

Piperidine 5660

Pyridine 5631,5632

Sesame Oil 6484

Water 1

STRYCHNINE

—, Acetate

— —, trichloro—.

—, Arsenate

—, Benzoate

— —, 2-amino—.

— —, 3-amino—.

— —, 4-amino—.

— —, 2-bromo—.

— —, 3-bromo—.

— —, 4-bromo—.

— —, 2-chloro—.

— —, 3-chloro—.

— —, 4-chloro—.

— —, 2,4-dinitro—.

— —, 3,5-dinitro—.

— —, 2-iodo—.

— —, 4-iodo—.

— —, 2-methyl—.

— —, 3-methyl—.

— —, 4-methyl—.

Water 1

Chloroform 4386

Water 1

Water 1671

Water 1673

Water 1673

Water 1673

Water 1667

Water 1667

Water 1667

Water 1666

Water 1666

Water 1666

Water 1666

Water 1664

Water 1668

Water 1668

Water 1674

Water 1674

Water 1674

STRYCHNINE $C_{21}H_{22}N_2O_2$	
—, Benzoate	
— —, 2-nitro —	Water 1670
— —, 3-nitro —	Water 1670
— —, 4-nitro —	Water 1670
— —, 2,4,6-trinitro —	Water 1661
—, Carboxyethanesulfonate	Water 1
—, Formate	Ethanol 5066
	Water 1654
—, Helianthate	Water 1
—, Hexabromoiridate	Water 1057
—, Hexachloroiridate	Water 1057
—, Hydrobromide	Ethanol 5063
	Water 1
—, Hydrochloride	Chloroform 4384
	Ethanol 5062
	Water 1
—, Hydroiodide	Water 1
—, Nitrate	Chloroform 4385
	Ethanol 5064,5065
	Methanol 4610
	Water 1
—, Oxalate	Water 1
—, Perchlorate	Water 1
—, Salicylate	
— —, dilodo —	Water 1662
— —, 3,5-dinitro —	Water 1665
— —, iodo —	Water 1669
—, Sulfate	Chloroform 4396-4398
	Ethanol 5 103,5 104
	Methanol 4615
	Water 1
—, Tartrate	Water 1,1656,1657
SUBERIC ACID see Octanedioic Acid	
SUCCINAMIC ACID $C_4H_7NO_3$	
—, Ethyl Xanthates	Water 1497
SUCCINAMIDE $C_4H_8N_2O_2$	Water 1
SUCCINIC ACID $C_4H_6O_4$	Acetone 5161
	p-Cymene 5359
	Ethanol 4847,4848
	Ethyl Ether 5355
	Formic Acid 4422
	Methanol 4535
	2-Methyl-1-propanol 5354
	1-Propanol 5246
	Various Solvents 5360
	Water 1,1179,1180
SUCCINIC ACID	
—, Bromo —	Alcohols 5345
—, Chloro —	Ethyl Ether 5344
	Water 1176
—, Diethyl —	Water 1
—, Methyl —	Alcohols 5648
	Water 1
SUCCINIMIDE $C_4H_5NO_2$	Ethanol 4846
	Water 1177
SUCCINOCHLORIMIDE $C_4H_4NO_2Cl$	Various Solvents 5342
SUCCINONITRILE $C_4H_4N_2$	Water 1175
SUCROSE $C_{12}H_{22}O_{11}$	Hydrogen Peroxide 6361
	Trichloroethylene 4663
	Water 1,1626-1634

SULFAGUANIDINE $C_7H_{10}N_4SO_2$	Water	1496
—, N ⁴ -Acetyl—	Water	1585
SULFAMETHYLTHIAZOLE $C_{10}H_{11}N_3S_2O_2$	Water	1582
—, N ⁴ -Acetyl—	Water	1616
SULFAMIC ACID H_3NSO_3	Various Solvents	6582
SULFAMILAMIDE $C_6H_8N_2SO_2$	Water	1373, 1374
—, N ¹ -Acetyl—	Water	1556
—, N ⁴ -Acetyl—	Water	1557
SULFANILIC ACID $C_6H_7NSO_3$	Ammonia	3524
	Water	1, 1357, 1358
—, 2-Iodo—	Water	1344
—, 3-Iodo—	Water	1344
SULFAPYRIDINE $C_{11}H_{11}N_3SO_2$	Water	1611
—, N ⁴ -Acetyl—	Water	1635
SULFATHIAZOLE $C_9H_9N_3S_2O_2$	Water	1575
—, N ⁴ -Acetyl—	Water	1612
SULFONAL see Propane, 2,2-bis(ethylsulfonyl)		
SULFONIUM		
—, Hexachloroplatinate $(RS)_2PtCl_6$		
— —, dimethylethyl—	Water	1679
— —, methyldiethyl—	Water	1679
— —, triethyl—	Water	1679
— —, trimethyl—	Water	1679
—, Iodide R_3SI		
— —, triethyl—	Chloroform	4290
	Water	1
—, Picrate		
— —, 3-nitrophenyldimethyl—	Water	1
— —, 4-nitrophenyldimethyl—	Water	1
SULFUR S	Ammonia	1991
	Aniline	2038
	Benzene	2030-2035
	Benzine	2059
	Benzoyl Chloride	2041
	1-Butanol	2022
	Carbon Disulfide	1997, 1998
	Carbon Tetrachloride	1999, 2000
	Chloroform	2001-2003
	Dibromoethane	2015
	Dibutyl Phthalate	2056
	p-Dichlorobenzene	2028
	Dichloroethane	2013-2014
	Dichloroethylene	2011
	Dimethylbenzene	2049-2051
	Ethanol	2016-2018
	Ethyl Ether	2023, 2024
	Glycerol	2019
	Heptane	2048
	Hexane	2040
	Hydrazine	1992
	Hydrogen Trisulfide	1994
	Iodomethane	2005
	Lanolin	2060
	Linseed Oil	2062
	Methanol	2006
	2-Naphthol	2054
	Nicotine	2055
	Oil of Turpentine	2063
	Olive Oil	2064
	Pentachloroethane	2010

SULFUR S	1-Pentanol	2027
	Phenol	2036,2037
	Phosphorus	1973
	Pyridine	2025,2026
	Quinoline	2053
	Rubber	2061
	Selenium Monochloride	1996
	Sulfur Monochloride	1995
	Tetrachloroethane	2012
	Tetrachloroethylene	2007
	Tin Tetrachloride	1990
	Toluene	2042,2044,2045
	Tribromomethane	2004
	Trichloroethylene	2008,2009
	Triphenylmethane	2057,2058
	Various Solvents	2065
SULFUR DIOXIDE SO ₂	Acetic Acid	3755,3756
	Acetic Anhydride	3761
	Acetone	3758,3759
	Animal Fat	3817
	Benzene	3770,3771
	Bone Oil	3823
	Butane	3762
	Camphor	3792
	Carbon Tetrachloride	3750
	Castor Oil	3821
	Chlorobenzene	3767
	Colza Oil	3822
	Decahydronaphthalene	3794
	Decane	3796
	Dicumylmethane	3813
	Ditolylmethane	3807
	Dodecane	3799
	Dotriacontane	3814
	Ethanol	3757
	Formic Acid	3752
	Glycerol Trioctadecanoate	3815
	Hexane	3780
	Isopropylbenzene	3810
	Linseed Oil	3819
	Methanol	3754
	Methyl Acetate	3760
	2-Methylpyridine	3775
	3-Methylpyridine	3776
	4-Methylpyridine	3777
	Nitrobenzene	3768
	o-Nitrotoluene	3783
	trans-9-octadecanoic Acid	3811
	Olive Oil	3820
	Petroleum	3816
	Pyridine	3763
	Rubber	3818
	Sulfuric Acid	3748
	Sulfuryl Chloride	3747
	Tetradecane	3806
	Toluene	3784,3785
	Water	1,973-981
SULFURIC ACID H ₂ SO ₄	Carbon Dioxide	3829
	Water	982

SULFUR NITRIDE S_4N_4	Benzene	3835
	Carbon Disulfide	3833
	Ethanol	3834
SULFUR TRIOXIDE SO_3	Sulfuryl Chloride	3824
TANNIN see m-Digallic Acid		
TANTALUM Ta		
—, Bromide $TaBr_5$	Bromoethane	3737
	Carbon Tetrachloride	3736
	Bromoethane	3733
	Carbon Disulfide	3730
	Carbon Tetrachloride	3731
	Chloroform	3732
	Ethylenediamine	3734
	Nitrobenzene	3735
	Titanium Tetrachloride	3398
	Water	1215
	Water	1600
TARTARAMIDE $C_4H_6N_2O_4$	Alcohols	5363
—, d-Monophenyl—	Ethanol	4849
TARTARIC ACID $C_4H_6O_6$	Ethyl Ether	5362
	Various Solvents	5364
	Water	1185,1186
TARTARIC ACID		
—, 2-methylpropyl ester	Ethanol	4976
TARTRAMINIC ACID $C_4H_7NO_5$		
—, p-Ethoxyphenyl—	Water	1600
—, p-Hydroxyphenyl—	Water	1600
—, d-Phenyl—	Water	1600
TAURINE $C_2H_7NO_3S$	Water	1149
TELLURIC ACID H_2TeO_4	Water	993
TELLURIUM Te	Dichloromethane	2071
—, Hexafluogermanate $TeGeF_6$	Water	916
TERBIUM Tb		
—, Bromate $Tb(BrO_3)_3$	Water	876
—, Phosphate $(R_2PO_4)_3Tb$		
— —, dimethyl—	Water	877
—, Sulfate $Tb_2(SO_4)_3 \cdot 8H_2O$	Water	1
α - TERPINEOL $C_{10}H_{18}O$	Water	1
—, Hydrate	Ethanol	4964
	Water	1
β - TERPINEOL $C_{10}H_{18}O$	Water	1
TETRADECANOIC ACID $C_{14}H_{28}O_2$	Various Alcohols	6406
—, Phenacyl ester	Ethanol	5071
— —, p-bromo—	Ethanol	5070
— —, p-chloro—	Ethanol	5069
TETRALIN see Naphthalene, 1,2,3,4-tetrahydro—		
TETRAMETHYLENE GLYCOL $C_4H_{10}O_2$	Benzene	5534
	Cyclohexane	5535
	Heptane	5536
	Water	1
TETRONAL $C_9H_{20}S_2O_4$	Carbon Disulfide	4163
TETRYL $C_7H_6N_5O_6$	Carbon Tetrachloride	4074
	Chloroform	4300
	Ethanol	4904
	Ethyl Ether	5452
	Glycol Diacetate	6022
	Water	1446

THALLIUM Tl	Thallium Chloride	2070
—, Acetate $TlC_2H_3O_2$	Sulfur Dioxide	3361
—, Aluminum Sulfate $Tl_2Al_2(SO_4)_4$	Water	833
—, Azide TlN_3	Water	896
—, Bromate $TlBrO_3$	Water	1
—, Bromide $TlBr$	Sulfur Dioxide	3351
	Water	889
—, Carbonate Tl_2CO_3	Sulfur Dioxide	3356
	Water	895
—, Chlorate $TlClO_3$	Water	1,893
—, Chloride $TlCl$	Methanol	3350
	Sulfur Dioxide	3348
	Water	885-888
—, Chromate Tl_2CrO_4	Water	1
—, Chromium Sulfate $TlCr(SO_4)_2$	Water	1
—, Copper Sulfate $CuTl_2(SO_4)_2$	Water	1
—, Cyanide $TlCN$	Sulfur Dioxide	3353
	Water	1
—, Dodecanoate $C_{12}H_{23}O_2Tl$	Acetone	3365
	Ethyl Ether	3364
—, Eicosanoate $C_{20}H_{39}O_2Tl$	Acetone	3379
	Ethyl Ether	3378, 3380
—, Ethoxide TlC_2H_5O	Ethanol	3362
—, Fluoride TlF	Hydrogen Fluoride	3346
	Water	1
—, Hexachloroplatinate Tl_2PtCl_6	Water	909
—, Hexacyanocobaltate $Tl_3Co(CN)_6$	Water	908
—, Hexacyanoferrate $Tl_4Fe(CN)_6$	Water	1
—, Hexadecanoate $C_{16}H_{31}O_2Tl$	Acetone	3370
	Ethanol	3369
	Ethyl Ether	3371
	Water	912
—, Hydroxide $TlOH$	Water	884
—, Hypophosphite Tl_3PO_2		
—, dl-H.	Water	899
—, Iodate $TlIO_3$	Water	1
—, Iodide TlI	Sulfur Dioxide	3352
	Water	1, 890, 891
—, Iron Sulfate $TlFe(SO_4)_2$	Water	1
—, Metavanadate $TlVO_3$	Water	900
—, Methanedisulfonate $Tl_2CH_2S_2O_6$	Water	1
—, chloro —.	Water	1
—, Methoxide $TlCH_3O$	Benzene	3360
	Methanol	3359
—, Nickel Sulfate $Tl_2Ni(SO_4)_2$	Water	1
—, Nitrate $TlNO_3$	Water	898
—, Nitrite $TlNO_2$	Water	897
—, Octadecanoate $C_{18}H_{35}O_2Tl$	Acetone	3376
	Ethanol	3375
	Ethyl Ether	3377
	Water	914
—, 9-Octadecenoate $C_{18}H_{33}O_2Tl$	Acetone	3373
	Ethanol	3372
	Ethyl Ether	3374
	Water	913
—, Oxalate $Tl_2C_2O_4$	Water	1
—, Perchlorate $TlClO_4$	Sulfur Dioxide	3355
	Water	1,894

THALLIUM Tl

—, Perrhenate $TlReO_4$

—, Phosphate Tl_3PO_4

—, Picrate $C_6H_2(NO_2)_3OTl$

—, Pyrovanadate $Tl_4V_2O_7$

—, Selenate Tl_2SeO_4

—, Sulfate Tl_2SO_4

—, Tetradecanoate $C_{14}H_{27}O_2Tl$

—, Thiocyanate $TlCNS$

—, Thorium Sulfate $Th_2Tl_2(SO_4)_3$

—, Trichromate $Tl_2Cr_2O_{10}$

—, Tricyanozincate $TlZn(CN)_3$

—, Trifluoride TlF_3

—, Vanadate Tl_3VO_4

—, Vanadate $Tl_{12}V_8O_{26}$

—, Vanadium Sulfate $TlV(SO_4)_2$

—, Zinc Sulfate $ZnTl_2(SO_4)_2$

THEBAINE $C_{19}H_{12}NO_3$

—, Picrate

THEOBROMINE $C_7H_8N_4O_2$

THEOPHYLLINE $C_7H_8N_4O_2$

THIOPHENE C_4H_4S

2-THIOPHENECARBOXYLIC ACID $C_5H_4O_2S$

—, 5-Methyl—

THIOPHOSPHORAMIDES $PS(NH_2)_3$

—, Tricyclohexyl—

—, Trimorpholyl—

—, Tripiperidyl—

THIOUREA CH_4N_2S

THIOUREA

—, Ditolyl —

—, N-Phenyl—

—, N-2-Propenyl—

—, N-2-Propenyl-N-phenyl—

Water	907
Water	1
Methanol	3363
Water	911
Water	900
Water	906
Sulfur Dioxide	3358
Water	1,901-905
Water	1
Sulfur Dioxide	3357
Water	1
Acetone	3367
Ethanol	3366
Ethyl Ether	3368
Sulfur Dioxide	3354
Water	892
Water	910
Water	1
Water	703
Hydrogen Fluoride	3347
Water	900
Water	900
Water	1
Water	1
Various Solvents	6464
Acetone	5221
Ethanol	5081
Water	1
Various Solvents	6157,6161
Ethanol	4919
Water	1
Benzene	5331
Cyclohexane	5332
1,3-Dimethylbenzene	5334
1,4-Dioxane	5329
Ethylbenzene	5335
Pyridine	5330
Toluene	5333
Furancarboxylic Acid	5565
5-Thiazolecarboxylic Acid	5326
5-Bromo-2-thiophene-carboxylic Acid	5549
Carbon Tetrachloride	4123
Chloroform	4366,4367
Various Solvents	6364
Carbon Tetrachloride	4114
Chloroform	4353
Ammonia	3512,3513
Ethanol	4620
Methanol	4520
Pyridine	4621
Water	6550
Carbon Tetrachloride	4113
Chloroform	4352
Water	1
Water	1
Acetic Acid	4790

THIOUREA

—, N-2-Propenyl-N'-phenyl—	Acetic Anhydride	5352
	Chloroform	6583
	Dibromobenzene	5699
	Diphenylamine	6292
	Ethanol	4957
	Methanol	4587
	o-Nitroaniline	5996
	Nitrobenzene	5750
	Paraldehyde	6036
	Trichloroacetic Acid	4669

THORIUM Th

—, Aluminum Sulfate $AlThSO_4$	Water	1
—, Benzenesulfonate $Th(C_6H_5SO_3)_4$		
—, 3-nitro—	Water	1
—, Fluoride ThF_4	Bromine Trifluoride	2233
	Hydrogen Fluoride	4015
	Water	1
—, Hexa.antipyrine $Th(C_{11}H_{12}N_2O)_6X_4$		
—, perchlorate	Water	1
—, Hippurate $Th(C_9H_8NO_3)_4$	Water	1
—, Hydroxide $Th(OH)_2$		
—, bisdichloroacetate	Water	1061
—, bismonochloroacetate	Water	1061
—, bistrichloroacetate	Water	1061
—, Nitrate $Th(NO_3)_4$	Ethyl Ether	4016
	Various Solvents	4017
	Water	1058
—, Picrate $Th(C_6H_2N_3O_7)_4$	Water	1
—, Selenate $Th(SeO_4)_2$	Water	1
—, Sulfate $Th(SO_4)_2$	Methanol	4018
	Water	1,1059,1060

THULIUM Tu

—, Benzene-2-sulfonate $Tu(C_6H_5SO_3)_3$		
—, 1-bromo-4-nitro—		
THYMOL $C_{10}H_{14}O$	Water	880
	Arachis Oil	6302
	Castor Oil	6304
	Cod Liver Oil	6307
	Cotton Seed Oil	6308
	Ethanol	4960
	Linseed Oil	6305
	Olive Oil	6306
	Vaseline Oil	6303
	Water	1,1602,1603

TIN Sn

—, Chloride $SnCl_2$	Tin Bromide	1967
	Tin Chloride	1966
	Acetone	3410
	Ethyl Acetate	3411,3412
	Formic Acid	3409
	Water	1
	Various Solvents	3442
—, Diethythiothionocarbamate $Sn(C_5H_{10}NS_2)_4$	Water	1
—, Dinitroso-β-phenylhydroxylamine $Sn(C_6H_5N_2O_2)_2$	Water	1
—, Hydroxide $Sn(OH)_2$	Water	917
—, Iodide SnI_2	Formic Acid	3441
—, Oxalate SnC_2O_4		
Propyldiethyltin		
—, Fluoride	Benzene	3440
	Ethanol	3439
	Methanol	3438
	Water	918

TIN Sn			
—, Sulfate SnSO_4	Water		1
—, Tetrabromide SnBr_4	Boron Bromide		3257
	Sulfur Dioxide	3425,3426	
—, Tetrachloride SnCl_4	Azobenzene		3423
	Dinitrobenzene		3417
	Methoxybenzene		3420
	o-Nitromethoxybenzene		3419
	Phenoxybenzene		3422
	Selenium Oxychloride		3414
	Sulfur Dioxide		3413
—, Tetraiodide SnI_4	Benzene		3432
	Boron Bromide		3258
	Carbon Disulfide		3428
	Carbon Tetrachloride		3429
	Chloroform		3430
	Di-iodomethane		3431
	Heptane		3434
	Hexane		3433
	2-Methylheptane		3436
	Octane		3435
	Silicon Tetrachloride		3383
	Various Solvents		3437
—, Tetranitroso- β -phenylhydroxylamine $\text{Sn}(\text{C}_6\text{H}_5\text{N}_2\text{O}_2)_4$	Water		1
Triethyltin RSnF_x			
—, Difluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18
—, Fluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18
Triisooamyltin RSnF			
—, Fluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18
Triisobutyltin RSnF			
—, Fluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18
Trimethyltin RSnF_x			
—, Difluoride	Ethanol		3439
	Methanol		3438
	Water		9 18
—, Fluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18
Tripropyltin RSnF_x			
—, Difluoride	Ethanol		3439
	Methanol		3438
	Water		9 18
—, Fluoride	Benzene		3440
	Ethanol		3439
	Methanol		3438
	Water		9 18

TITANIUM Ti	
—, Tetrabromide $TiBr_4$	Sulfur Dioxide 3402
—, Tetrachloride $TiCl_4$	Naphthalene 3401
	Selenium Oxychloride 3400
	Sulfur Dioxide 3399
TOLIDINIUM $(C_7H_8N)_2X$	
—, m-Nitrobenzenesulfonate	Water 1362
o-TOLIDINIUM $(C_7H_8N)_2X_2$	
—, Benzenesulfonate	Water 1366
TOLUALDEHYDES see Benzaldehyde, methyl—.	
TOLUENE C_7H_8	
	Ethanol 4917
	Ethylbenzene 6138
	Sulfur 2043
	Water 1,1469,1470,1688
TOLUENE C_7H_8	
—, Dinitro —.	Sulfur Dioxide 3781
—, 2,4-Dinitro —.	Various Solvents 6118
—, Hexahydro —.	Furfural 5560
	o-Toluidine 6162
—, Nitro —.	Water 1462
—, 2-Nitro —.	Water 1
—, 3-Nitro —.	Water 1
—, 4-Nitro —.	Perfluorobutoxybutane 6128
	Perfluorotripropylamine 6129
	Water 1
—, Pentabromo —.	Ethanol 4899
	Methanol 4562
—, Pentachloro —.	Benzene 5790
—, Perfluorohexahydro —.	Benzene 5788
	Carbon Tetrachloride 4068,4069
	Chlorobenzene 5721
	Chloroform 4295
	Toluene 6058
	Various Solvents 6060
—, 2,4,6-Trinitro —.	Acetone 5181
	Aniline 6001
	Benzene 5805
	Carbon Disulfide 4162
	Carbon Tetrachloride 4073
	Chloroform 4299
	2,4-Dinitrotoluene 6085
	Ethanol 4902,4903
	Ethyl Ether 5451
	Pyridine 5584
	Toluene 6086
	Water 1,1445
TOLUENEDIAZONIUM	
—, Hexafluophosphate $C_7H_7N_2PF_6$	Water 1
m-TOLUENESULFONAMIDE	Water 1
o-TOLUENESULFONAMIDE $C_7H_7NO_2S$	Water 1
p-TOLUENESULFONAMIDE	Water 1
TOLUENE-2-SULFONIC ACID $C_7H_6SO_3$	Water 1481
TOLUENE-4-SULFONIC ACID	Water 1482
TOLUIC ACID	Various Solvents 6203,6204
m-TOLUIC ACID	Chlorobenzene 5723
	o-Chlorotoluene 6121
	p-Chlorotoluene 6124
	Dimethylbenzene 6201
	Water 1,1525
—, 2-Hydroxy —.	Benzene 5844
	Heptane 6174
	Water 1533

m-TOLUIC ACID			
—, 4-Hydroxy —	.....	Benzene	5848
		Heptane	6178
		Water	1537
		Water	1535
—, 6-Hydroxy —	.....	Benzene	5836
—, 2-Nitro —	.....	Water	1521
		Benzene	5837
—, 6-Nitro —	.....	Toluene	6133
		Water	1522
o-TOLUIC ACID	.....	Chlorobenzene	5724
		o-Chlorotoluene	6122
		p-Chlorotoluene	6125
		Dimethylbenzene	6201
		Formic Acid	4439
		3-Methyl-2-thiophene- carboxylic Acid	5985
		Water	1,1526
p-TOLUIC ACID	.....	5-Bromo-2-thiophene- carboxylic Acid	5551
		Chlorobenzene	5725
		o-Chlorotoluene	6123
		p-Chlorotoluene	6126
		Dimethylbenzene	6201
		5-Methyl-2-thiophene- carboxylic Acid	5986
		Water	1,1527
—, 2-Hydroxy —	.....	Benzene	5845
		Heptane	6175
		Water	1534
—, 3-Hydroxy —	.....	Benzene	5847
		Heptane	6177
		Water	1536
m-TOLUIDINE	.....	Various Solvents	6163
o-TOLUIDINE C ₇ H ₉ N	.....	Sulfur	2046
		Various Solvents	6164
		Water	1,1491
p-TOLUIDINE C ₇ H ₉ N	.....	Acetic Acid	4784
		Ammonia	3532
		Ethanol	4920,4921
		Various Solvents	6165
		Water	1492,1493
m-TOLUIDINIUM C ₇ H ₉ NX		Water	1366
—, Benzenesulfonate	.....	Water	1362
—, 3-nitro —	.....	Water	1
—, Helianthate	.....	
o-TOLUIDINIUM C ₇ H ₉ NX			
—, Acetate			
—, trichloro —	.....	Water	1570
—, Benzenesulfonate	.....	Water	1366
—, 3-nitro	.....	Water	1362
—, Helianthate	.....	Water	1
p-TOLUIDINIUM C ₇ H ₉ NX			
—, Acetate			
—, trichloro —	.....	Water	1570
—, Benzenesulfonate	.....	Water	1366
—, 3-nitro —	.....	Water	1362
—, 4-nitro —	.....	Water	1366
TRIAMYLOSE C ₁₈ H ₃₀ O ₁₅	.....	Water	1
TRIAZOTHIONTHIOCYANATE C ₂ N ₄ S ₂	.....	Various Solvents	4768
TRIBUTYLAMINE C ₁₂ H ₂₇ N			
—, Perfluoro —	.....	n-Hexane	6044
		Methylcyclohexane	6168
		6-Methylheptane	6230

TRICAPRIN see Glycerol Tridecanoate

2-TRIDECANONE $C_{13}H_{26}O$	Acetone	5197
	Acetonitrile	4722
	Benzene	5909
	Carbon Tetrachloride	4102
	Chloroform	4338
	Cyclohexane	6027
	Dioxane	5395
	Ethanol	4996
	Ethyl Acetate	5394
	Hexane	6046
	Methanol	4594
	2-Propanol	5276
	Toluene	6149
TRIETHYLAMINE $C_6H_{15}N$	Ammonia	3528
	Water	1425, 1426

TRILAURIN see Glycerol Tridodecanoate

α -TRIMETHYLENE C_3H_6		
—, Trisulfide Dioxide	Water	1
—, Trisulfoxide	Water	1
β -TRIMETHYLENE		
—, Trisulfide Dioxide	Water	1
—, Trisulfoxide	Water	1

TRIMETHYLENEDIAMMONIUM DIPERCHLORATE

$C_3H_{12}(NClO_4)_2$		
—, Di(trimethyl)—	Water	499
TRIMETHYLENE GLYCOL $C_3H_8O_2$	Benzene	5284
	Cyclohexane	5286

—, Dihexadecanoate	Heptane	5287
—, Dioctadecanoate	Ethanol	5114
—, Mono-hexadecanoate	Ethanol	5114
—, Mono-octadecanoate	Ethanol	5114
TRIMETHYLENE OXIDE C_3H_6O	Ethanol	5114

—, 2,2-Dimethyl—	Water	1259
------------------------	-------	------

TRIMETHYLENETRIAMINE $C_3H_9N_3$

—, Trinitro—	Acetone	5156
	Benzene	5232
	Carbon Tetrachloride	4056
	Ethanol	4841
	Ethyl Acetate	5230
	Methanol	4532
	3-Methyl-1-butanol	5231
	Toluene	5233
	Acetic Acid	4775

TRIMETHYL PHOSPHATE $C_3H_9PO_4$

TRIMYRISTIN see Glycerol Tritetradecanoate

TRIONAL $C_8H_{18}S_2O_4$	Petroleum Ether	6231
	Water	1

TRIPHENYLAMINE $C_{18}H_{15}N$	Carbon Disulfide	4173
	Ethanol	5024
	Methanol	4598
	Water	1, 1688

TRIPHENYLENE $C_{18}H_{12}$

TRISTEARIN see Glycerol Trioctadecanoate

α -sym-TRITHIANE $C_3H_3S_3$		
—, 2,4,6-Trimethyl—	Various Solvents	6032
—, Triphenyl—	Various Solvents	6479

β -sym-TRITHIANE $C_3H_3S_3$

—, 2,4,6-Trimethyl—	Various Solvents	6033
—, Triphenyl—	Various Solvents	6480
TROPIC ACID $C_9H_{10}O_3$	Water	1

TRYPTOPHAN $C_{11}H_{12}N_2O_2$	Acetic Acid	4792
	Butanoic Acid	5391
	Water	1
1-TRYPTOPHAN	Water	1615
TUNGSTEN W		
—, Fluoride WF_6	Uranium Hexafluoride	6579
TURPENTINE OIL	Ethanol	5116,5117
TYRAMINE $C_8H_{11}NO$		
—, 2,4-Dinitro-1-naphthol-7-sulfonate	Various Alcohols	6456
TYROSINE $C_9H_{11}NO_3$	Water	1
1-TYROSINE	Water	1581
UNDECANEDIOIC ACID $C_{11}H_{20}O_4$	Benzene	5889
URANIUM U		
—, Helianthate $U(C_{14}H_{14}N_3SO_3)_2$	Water	1
—, Hexafluoride UF_6	Bromine	4023
	Bromine Pentafluoride	4022
	Bromine Trifluoride	4021
	Chlorine Trifluoride	4020
	Hydrogen Fluoride	4019
—, Sulfate $U(SO_4)_2$	Water	1062
URANYL UO_2		
—, Acetate $UO_2(C_2H_3O_2)_2$	Acetone	4029
	Methanol	4028
—, Ammonium Carbonate $UO_2(NH_4)_4(CO_3)_3$	Water	1
—, Ammonium Chloride $(NH_4)_2UO_2Cl_4$	Water	1,567
— —, tetraethyl—	Water	1
— —, tetramethyl—	Water	1
—, Ammonium Nitrate $UO_2NH_4(NO_3)_3$	Water	566
—, Ammonium Propanoate $NH_4UO_2(C_3H_5O_2)_3$	Water	1
—, Butanoate $UO_2(C_4H_7O_2)_2$	Water	1
—, Camphorcarbonate $(C_{11}H_{15}O_3)_2UO_2$	Various Solvents	4030
—, Cesium Chloride $CsUO_2Cl_3$	Water	1
—, Chloride UO_2Cl_2	Water	1
—, Fluoride UO_2F_2	Uranium Hexafluoride	6579
—, Fluorides UO_2RF		
— —, diethylanilinium	Water	1068
— —, pyridinium	Water	1068
— —, quinolinium	Water	1068
— —, tetraethylammonium	Water	1068
— —, tetramethylammonium	Water	1068
— —, triethylsulfonium	Water	1068
— —, trimethyl-p-toluidinium	Water	1068
—, Formate $UO_2(HCO_2)_2$	Water	1
—, Iodate $UO_2(IO_3)_2$	Water	1063
—, Nitrate $UO_2(NO_3)_2$	Acetone	4025
	Ethanol	4024
	Ethyl Ether	4026
—, Oxalate $UO_2C_2O_4 \cdot 3H_2O$	Water	1064-1066
—, Penta.antipyrine $UO_2(C_4H_{12}N_2O)_5 \cdot X$	Water	1,1067
— —, perchlorate	Water	1
—, Pentanoate $UO_2(C_5H_9O_2)_2$	Water	1
—, Potassium Butanoate $KUO_2(C_4H_7O_2)_3$	Water	1
—, Potassium Carbonate $K_4UO_2(CO_3)_2$	Water	1
—, Potassium Chloride UO_2KCl_3	Water	351
—, Potassium Nitrate $UO_2K(NO_3)_3$	Water	352
—, Potassium Propanoate $KUO_2(C_3H_5O_2)_3$	Water	1
—, Potassium Sulfate $K_2UO_2(SO_4)_2$	Water	1
—, Propanoate $UO_2(C_3H_5O_2)_2$	Water	1
— —, 2-methyl—	Water	1

URANYL UO₂

—, Rubidium Chloride RbUO ₂ Cl ₃	Water	1
—, Rubidium Nitrate UO ₂ Rb(NO ₃) ₃	Water	415
—, Sodium Chromate Na ₂ UO ₂ (CrO ₄) ₂	Water	1
—, Sulfate UO ₂ SO ₄	Various Solvents	4027

UREA CH₄N₂O

	Acetic Acid	4622,4623
	Ammonia	3511
	1,3-Benzenediol	4634
	1,4-Benzenediol	4633
	Butanoic Acid	4629
	Dodecanoic Acid	4637
	Ethanol	4624-4626
	Ethyl Ether	4630
	Formic Acid	4417,4418
	Glycerol	4628
	Nonanoic Acid	4636
	Pentanoic Acid	4632
	Propanoic Acid	4627
	Pyridine	4631
	Various Solvents	4638
	Water	1106-1109

UREA

—, N-Benzyl —.	Various Solvents	6225
—, N,N-Diphenyl —.	Ethanol	4994
	Pyridine	5605
	Quinoline	6249
	Water	1
—, N,N'-Diphenyldiethyl —.	Various Solvents	6443
—, N,N-Diphenyl —.	Various Solvents	6378
—, N-Ethyl —.	Ethanol	4844
	Quinoline	5320
—, N,N'-Phenylmethyl —.	Various Solvents	6224
—, N-o-Tolyl —.	Various Solvents	6222
—, N-p-Tolyl —.	Various Solvents	6223
—, Phosphate	Ethanol	4639
	Methanol	4521-4524,4525
	Water	1110

UREIDES

Butanoylurea

—, 2-bromomethyl —.	Water	1379
—, 2-bromo-2-methyl —.	Water	1379
—, 3-bromo-3-methyl —.	Water	1379
—, 4-bromo-2-methyl —.	Water	1379

Pentanoylurea

—, 2-bromo —.	Water	1379
—, 2-bromo-2-ethyl —.	Water	1
—, 3-bromo —.	Water	1379
—, 4-bromo —.	Water	1379

Propenylurea

—, 3-bromo-2-2-dimethyl —.	Water	1379
---------------------------------	-------	------

URETHANE see Carbamic Acid, ethyl ester

URIC ACID C ₅ H ₄ N ₄ O ₃	Ethanol	4860
	Formic Acid	4424
	Pyridine	5575
	Quinoline	5576
	Water	1,1238,1350

URIC ACID

—, 3,7-Dimethyl —.	Water	1350
—, α-Methyl	Water	1350
—, β-Methyl	Water	1350

URIC ACID $C_5H_4N_4O_3$		
—, δ -Methyl	Water	1350
—, ρ -Methyl	Water	1350
URONIUM CH_4N_2OX		
—, Butanoate		
—, 2-bromomethyl —.	Water	1413
—, 2-bromo-2-methyl —.	Water	1413
—, 2-bromo-3-methyl —.	Water	1413
—, 3-bromo-2,2-dimethyl —.	Water	1413
—, 3-bromo-3-methyl —.	Water	1413
—, 4-bromo-2-methyl —.	Water	1413
—, 2,4-Dinitro-1-naphthol-7-sulfonate	Various Solvents	6322
—, methyl	Various Alcohols	6357
—, Perchlorate		
—, guanyl —.	Water	1
URSON $C_{30}H_{48}O_3$	Ethanol	5092
	Ethyl Ether	5519
	Butanoic Acid	5378
VALINE $C_5H_{11}NO_2$	Water	1269
dl-VALINE		
VANADIUM V		
—, Ammonium Sulfate $(NH_4)_2V_2(SO_4)_4$	Water	1
—, Cesium Sulfate $Cs_2V_2(SO_4)_4$	Water	472
—, Fluoride VF_5	Uranium Hexafluoride	6579
—, Pentoxide V_2O_5	Water	1
—, Rubidium Sulfate $RbV(SO_4)_2$	Water	414
VANADYL VO		
—, Fluoride VOF_3	Uranium Hexafluoride	6579
VANILLIN $C_8H_8O_2$	Ethanol	4934
	Pyridine	5591
	Quinoline	6205
	Water	1,1537
	Sesame Oil	6507
	Various Solvents	6508
	Water	1
VERATRINE $C_{32}H_{49}NO_9$		
VERONAL see Barbital		
WATER H_2O	Acetic Anhydride	1178
	Benzene 1318,1321-1323,1676	
	Benzine	1676
	Blend of Hydrocarbons 1684-1686	
	Butyl Acetate	1400
	Butyl Butanoate	1567
	Butylene	1190
	Butyl Propanoate	1508
	Carbon Dioxide	1073-1080
	Carbon Disulfide	1676
	Carbon Tetrachloride	1083,1676
	Chlorobenzene	1301
	Chloroform	1676
	Cyclohexanol	1380
	1,2-Dichloroethane	1131
	Dimethoxytetraglycol	1687
	Dimethylacetamide	1687
	Dimethylbenzene	1549
	Ethylbenzene	1551
	Glycerol	1687
	Glycol	1687
	Hexamethylenediamine	1687
	Kerosene	1682
	β , β' -Oxydibutanenitrile	1563
	Paraffin Oil	1683

YTTRIUM Y

—, Bromide	YBr ₃	.....
—, Chloride	YCl ₃	.....
—, Glycolate	Y(C ₂ H ₃ O ₃) ₃	.....
—, Hexa.antipyrine	Y(C ₁₁ H ₁₃ N ₂ O ₆) ₆ X ₃	.....
—, Iodide	.....	.....
—, perchlorate	.....	.....
—, Iodate	Y(IO ₃) ₃	.....
—, Lactate	Y(C ₃ H ₅ O ₃) ₃	.....
—, Nitrate	Y(NO ₃) ₃	.....
—, Oxalate	Y(C ₂ O ₄) ₃	.....
—, Oxide	Y ₂ O ₃	.....
—, Phosphate	Y ₂ (R ₂ PO ₄) ₆	.....
—, dimethyl —	.....	.....
—, Sulfate	Y ₂ (SO ₄) ₃	.....
ZINC Zn	.....	.....

—, Acetate	Zn(C ₂ H ₃ O ₂) ₂	.....
—, Ammonium Phosphate	NH ₄ ZnPO ₄	.....
—, Ammonium Sulfate	(NH ₄) ₂ Zn(SO ₄) ₂	.....
—, Anthracene-1-sulfonate	Zn(C ₁₄ H ₆ SO ₃) ₂	.....
—, Anthracene-2-sulfonate	.....	.....
—, Arsenate	Zn ₃ (AsO ₄) ₂	.....
—, Arsenite	Zn ₃ (AsO ₃) ₂	.....
—, Benzenesulphonate	Zn(C ₆ H ₅ SO ₃) ₂	.....
—, Benzoate	Zn(C ₇ H ₅ O ₂) ₂	.....
—, 4-chloro —	.....	.....
—, 4-hydroxy —	.....	.....
—, 4-methoxy —	.....	.....
—, 4-nitro	.....	.....
—, Bromide	ZnBr ₂	.....
—, Cacodylate	Zn[(CH ₃) ₂ AsO ₂] ₂	.....
—, Camphorcarbonate	Zn(C ₁₁ H ₁₅ O ₃) ₂	.....
—, Carbonate	ZnCO ₃	.....
—, Cesium Sulfate	CsZn(SO ₄) ₂	.....
—, Chlorate	Zn(ClO ₃) ₂	.....
—, Chloride	ZnCl ₂	.....
—, 2-thiourea	ZnCl ₂ ·2(NH ₂) ₂ CS	.....
—, Cinnamate	Zn(C ₉ H ₇ O ₂) ₂	.....
—, Cyanide	Zn(CN) ₂	.....
—, Diethylthiothionocarbamate	Zn(C ₅ H ₁₀ NS ₂) ₂	.....
—, Dodecanoate	Zn(C ₁₂ H ₂₃ O ₂) ₂	.....
—, Ethyl Xanthate	Zn(C ₂ H ₅ OCS ₂) ₂	.....
—, Fluoride	ZnF ₂	.....

Water	836
Ethanol	3318
Pyridine	3319
Water	834,835
Water	1
Water	1
Water	1
Water	1
Ethanol	3320
Water	837
Water	1
Water	1
Water	1,839
Water	1,838,883
Indium	1952
Milk	1954
Zinc Chloride	1950
Zinc Iodide	1951
Acetic Acid	2988
Hydrazine	2986
Methanol	2987
Water	1
Water	1
Water	543,544
Water	1
Water	1
Formic Acid (95%)	2981
Formic Acid (95%)	2980
Water	708
Various Solvents	2990
Water	1,709
Water	1
Water	1
Water	1
Water	1
Acetone	2970
Pyridine	2971
Water	696
Water	706
Various Solvents	2991
Water	1
Water	473
Water	698
Acetic Acid	2965
Acetone	2966
Glycerol	2967
Hydrazine	2962
Pyridine	2968
Selenium Oxochloride	2964
Sulfur Dioxide	2963
Water	695
Water	1
Water	1
Water	1
Various Solvents	2989
Toluene	2992
Water	214
Hydrogen Fluoride	2961

ZINC Zn

—, Fluoride ZnF_2	Water	1
—, Formate $Zn(CHO_2)_2$	Water	705
—, Fumarate $ZnC_4H_2O_4$	Water	1
—, Gluconate $Zn(C_6H_{11}O_7)_2$	Water	1
—, Helianthate $Zn(C_{14}H_{14}N_3SO_3)_2$	Water	1
—, Hexa.antipyrine $Zn(C_{11}H_{12}N_2O)_6X_2$		
— —, perchlorate	Water	1
—, Iodate $Zn(IO_3)_2$	Water	1
—, Iodide ZnI_2	Ammonia	2972
	Glycerol	2974
	Pyridine	2975
	Sulfur Dioxide	2973
	Water	697
—, Lanthanum Nitrate $Zn_3La_2(NO_3)_{12}$	Water	1
—, Naphthalene-1-sulfonate $Zn(C_{10}H_7SO_3)_2$	Water	1
— —, 5-chloro —	Water	1
—, Naphthalene-2-Sulfonate $Zn(C_{10}H_7SO_3)_2$	Water	1,710
— —, 6-hydroxy —	Water	1
—, 2-Naphthylamine-5,7-disulfonate $ZnC_{10}H_7NS_2O_6$	Water	1
—, 2-Naphthylamine-6,8-disulfonate	Water	1
—, Neodymium Nitrate $Nd_2Zn_3(NO_3)_8$	Water	863
—, Nitrate $Zn(NO_3)_2$	Ammonia	2979
	Water	699,670
—, Nitroso- β -Phenyl-hydroxylamine $Zn(C_6H_5N_2O_2)_2$	Water	1
—, Octadecanoate $Zn(C_{18}H_{35}O_2)_2$	Dodecanoic Acid	2994
	Octadecanol	2995
	Toluene	2993
—, Oxalate ZnC_2O_4	Water	1
	Water	704
—, Oxide ZnO	Water	1
—, Perchlorate $Zn(ClO_4)_2$	2-Ethoxyethanol	2997
	Furfural	2978
—, 2-Phenanthrenesulfonate $Zn(C_{14}H_9SO_3)_2$	Water	711
—, 3-Phenanthrenesulfonate	Water	711
—, 10-Phenanthrenesulfonate	Water	711
—, Phenolsulfonate $Zn(C_6H_5SO_4)_2$	Water	1
—, Potassium Sulfate $K_2Zn(SO_4)_2$	Water	1,336
—, Potassium Vanadate $KZnV_5O_{14}$	Water	1
—, Praseodymium Nitrate $Pr_2Zn_3(NO_3)_8$	Water	855
—, Rubidium Sulfate $Rb_2Zn(SO_4)_2$	Water	413
—, Samarium Nitrate $[Sm(NO_3)_6]Zn_3$	Nitric Acid	3344
—, Sulfate $ZnSO_4$	Ethanol	2984
	Glycerol	2985
	Methanol	2982,2983
	Water	701,702
—, Sulfite $ZnSO_3$	Water	1
—, Tartrate $C_4H_4O_6Zn$	Water	707
—, Tetrachloride $ZnCl_4$	Sulfur Dioxide	2969
—, Tetrafluoborate $Zn(C_{11}H_{12}N_2O)_6(BF_4)_2$	Water	1
—, Tetrathiocyanatomercuriate $ZnHg(CNS)_4$	Water	1
—, Thallium Sulfate $ZnTl_2(SO_4)_2$	Water	1
—, Thiocyanate $Zn(CNS)_2$	Sulfur Dioxide	2976
	Water	1

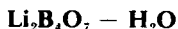
ZIRCONIUM Zr

—, Ammonium Heptafluoride $Zr(NH_4)_7F_7$	Water	555
—, Ammonium Hexafluoride $Zr(NH_4)_6F_6$	Water	554
—, Fluoride ZrF_4	Bromine Trifluoride	2233
	Hydrogen Fluoride	3408
—, Nitrate $Zr(NO_3)_4$	Water	1

ADDITIONAL TABLES

No. 6541

LITHIUM TETRABORATE—WATER

REBURN, W. T., GALE, W. A. *J. Phys. Chem.* **59**, 20 (1955)

Solubility of Lithium Tetraborate, Wt. %	t
2.20	0
2.55	10
2.81	20
3.01	30
3.26	40
3.76	60
4.35	80
5.17	100

No. 6542

LITHIUM-TANTALUM OXIDE—WATER

LAPITSKII, A. V., STEPANOV, B. A., PCHELKINA, M. A. *Zh. obshch. khim* **25**, (1868)

Solubility of Lithium-Tantalum oxide, g/l	t
0.0121	0
0.0247	25
0.0540	50
0.0897	75
0.1200	100

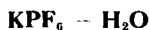
No. 6543

LITHIUM NIOBIUM OXIDE—WATER

LAPITSKII, A. V., SHISHKINA, L. N., PCHELKINA, M. A., STEPANOV, B. A.
Zh. obshch. khim **25**, 1863 (1955)

Solubility of Lithium-Niobium Oxide, g/l	t
0.034	0
0.042	25
0.064	50
0.089	75
0.109	100

No. 6544 POTASSIUM HEXAFLUOPHOSPHATE—WATER



SARMOUSAKIS J. N., *Low M. Y. J. Am. Chem. Soc.* **77**, 6518 (1955)

Solubility of Potassium Hexafluophosphate, Wt. %	t
3.56	0
4.24	4.5
5.27	10.5
6.40	16.2
7.30	20.2
8.35	25
9.69	30
11.15	35
12.85	40
14.82	45
16.48	50
18.22	55
20.29	60
22.49	65
24.61	70
27.29	75
29.38	80
31.96	85
34.03	90
35.88	95
38.30	100

No. 6545 POTASSIUM DIPICRYLAMINE—WATER

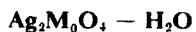


KIELLAND, J., *Ber.* **71**, 220 (1938)

Solubility of Potassium Dipicrylamine g/l	t
0.956	15
1.195	25
1.482	35
1.769	45

No. 6546

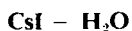
SILVER MOLYBDATE—WATER

RICCI, J. E., LINKE, W. F. *J. Am. Chem. Soc.* 73, 3661 (1951)

Solubility of Silver Molybdate, Wt. %	t
0.00260	10
0.00386	25
0.00416	30
0.00468	35
0.00519	40
0.00569	45
0.00823	60
0.00974	70

No. 6547

CESIUM IODIDE—WATER

BRIGGS, T. R., HUBARD, S. S. *J. Phys. Chem.* 45, 806 (1941)

Solubility of Cesium Iodide, Wt. %	t
8.76	-1.2
18.75	-2.7
27.45	-4.0
27.69	4.0
30.60	0.0
31.41	1.4
36.90	9.3
39.8	14.0
40.3	15.0
41.13	18.0
43.32	19.4
47.94	22.8
46.1	25.0
46.9	25.0
49.98	32.0
50.05	32.4
51.48	35.6
55.54	45.9
60.43	59.3
60.0	61.0
60.75	61.3
65.24	77.7
67.16	88.0
70.25	102.8
71.48	109.1

No. 6548 **CALCIUM HYDROGENMALEATE—WATER**



WEISS, J. M., DOWNS, C. R. *J. Am. Chem. Soc.* **45**, 1005, 2348 (1923)

Solubility of Calcium Hydrogenmalcate, Wt. %	t
17.41	25
29.52	40
48.66	60

No. 6549 **HYDROGEN SELENIDE—WATER**



MC-AMIS, FELSING *J. Am. Chem. Soc.* **47**, 2633 (1925)

Solubility of Hydrogen Selenide, g/l	t
7.93	14.6
7.78	15.0
6.82	25.0
6.70	25.0
5.93	35.0

No. 6550 **THIOUREA—WATER**

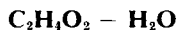


SEIDELL, A. *Solubility*, New-York 1940

Solubility of Thiourea, Wt. %	t
3.0	—5
4.7	0
8.0	10
12.0	20
14.2	25
16.7	30
23.5	40
32.5	50
41.5	60
50.5	70
58.0	80
64.5	90
70.5	100
80.7	120
89.2	140
95.5	160
100.0	180

No. 6551

ACETIC ACID—WATER

SEIDELL, A. *Solubility*, New-York 1940

Mutual Solubility, Wt. %		t
Acetic Acid	Water	
0	100	0
15.2	84.8	-5
28.5	71.5	-10
40.0	60.0	-15
49.2	50.8	-20
57.0	43.0	-25
60.0	40.0	-26.7
62.5	37.5	-25
67.0	33.0	-20
72.3	27.7	-15
77.5	22.5	-10
82.2	17.7	-5
87.0	13.0	0
91.8	8.2	5
95.8	4.2	10
100	0	16.6

No. 6552

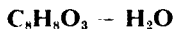
PENTANITROPHENYLETHANE—WATER

DESVERGNES, L. *Moniteur Scientifique* [S], 16, 201 (1926)

Solubility of Pentanitrophenylethane, Wt. %	t
0.007	27
0.017	50
0.095	100

No. 6553

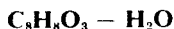
d AND l MANDELIC ACIDS—WATER

KORTIUM, G. *Ber.* 64, 1506 (1931)CAMPBELL, A. N., GARROW, F. *Trans. Farad. Soc.* 26, 560 (1930)

Acid	Solubility of Mandelic Acid, Wt. %	t
d—Mandelic Acid	6.77	15
l—Mandelic Acid	6.75	15
d—Mandelic Acid	10.2	25
l—Mandelic Acid	9.98	25

No. 6554

MANDELIC ACID (ACTIVE)—WATER

TIMMERMANS, J., MOTINK, K. *Bull. Soc. chim. (Belg.)* 41, 399 (1932)

Solubility of Mandelic Acid, Wt. %	t
1.80	-0.24
3.56	-0.46
4.62	-0.60
5.27	-0.67
5.43	-0.70
6.66	-0.84
7.40	-0.93

MESITYLENE DIHYDROGENHYPOPHOSPHITE—WATER

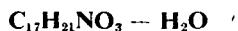
No. 6555

CREIGHTON, H. J. M. *J. Phys. Chem.* 30, 1209 (1926)

Solubility of Mesitylene Dihydrogenhypophosphite, Wt. %	t
0.489	1.0
0.299	25
0.324	35
0.385	45
0.525	65
0.700	85

p-TOLYLETHYLAMMONIUM MANDELATES—WATER

No. 6556



INGERSOL, A. W., BABCOCK, S. H., BURNS, F. B. *J. Am. chem. Soc.* **55**, 411 (1933)

25°

Name of the Substance	Solubility of Tolyethylammonium Mandelates, Wt. %
dl- α -p-Tolyethylammonium-dl. Mandelate	4.66
d- α -Tolyethylammonium l Mandelate	4.92
d- α -Tolyethylammonium α Mandelate	6.65

No. 6557

HYDROGEN—DIBORANE



HU, J. H., MACWOOD, G. E. *J. Phys. Chem.* **60**, 1484 (1956)

Solubility of Hydrogen Mol. %	t	R	Solubility of Diborane Mol. %	t	R
0.2590	-157.67	8.77	0.2458	-127.25	5.48
0.2969	-160.82	10.14	0.4152	-127.50	9.13
0.3365	-160.73	11.45	0.9307	-126.97	20.66
0.4435	-159.34	15.14	1.1338	-126.41	32.44
0.6182	-158.65	21.00	1.8326	-127.15	41.91
0.6285	-159.70	21.41	0.1954	-114.73	4.04
0.7501	-160.50	26.61	0.5106	-114.84	9.94
0.8694	-160.31	34.13	0.7634	-114.86	14.95
0.9667	-161.08	41.98	1.0854	-115.01	21.23
0.2330	-149.33	6.74	1.4541	-114.83	28.21
0.4842	-149.21	14.42	1.7622	-114.81	34.13
0.6841	-149.24	19.98	2.1377	-113.90	41.49
0.8469	-148.92	25.58	0.4337	-103.61	7.79
1.1180	-148.70	34.06	0.8427	-103.30	14.60
1.3554	-148.93	42.12	1.2433	-103.28	21.41
0.2834	-138.22	7.03	1.7083	-103.19	28.74
0.5381	-138.23	13.56	2.1139	-103.47	35.82
0.8230	-138.03	20.59	2.4527	-103.45	41.98
1.3073	-138.21	33.74	0.4900	-91.60	8.31
1.6129	-138.21	42.46	0.8921	-91.48	14.09
			1.3143	-91.74	20.12
			1.7661	-91.61	26.88
			2.3572	-91.61	35.82
			2.7194	-91.43	41.69

No. 6558

NITROGEN—ACETONE

HORINTI, J. *Papers Inst. Phys. Chem. Res. (Tokyo)* 17, 125 (1931)

Solubility of Nitrogen Acetone, cm ³ /cm ³	t
0.0967	-78.1
0.1081	-60.3
0.1211	-40.75
0.1376	-20.2
0.1553	0.0
0.1747	20.0
0.1790	25.0
0.1946	40.1

No. 6559

DINITROGEN OXIDE—OXYGEN

DIN, F., GOLDMAN, K. *Trans. Farad. Soc.* 55, N 2, 239 (1959)

Solubility of Dinitro Oxide, Mol. %	t
0.00153	-198
0.00183	-197
0.00217	-196
0.00256	-195
0.00301	-194
0.00353	-193
0.00412	-192
0.00479	-191
0.00555	-190
0.00641	-189
0.00738	-188
0.00847	-187
0.00969	-186
0.01105	-185
0.01256	-184
0.01423	-183
0.01608	-182
0.01813	-181
0.02039	-180
0.02287	-179

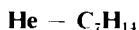
No. 6560 HELIUM—PERFLUOROMETHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Helium, Mol. %	t
0.0705	16.0
0.0785	30.0
0.0823	43.1

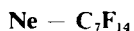
No. 6561 HELIUM—METHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Helium, Mol. %	t
0.0146	16.0
0.0168	30.0
0.0207	43.1

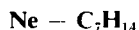
No. 6562 NEON—PERFLUOROMETHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Neon, Mol. %	t
0.108	16.0
0.115	30.0
0.122	43.1

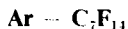
No. 6563 NEON—METHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Neon, Mol. %	t
0.0211	16.0
0.0234	30.0
0.0282	43.1

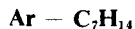
No. 6564 ARGON—PERFLUOROMETHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Argon, Mol. %	t
0.462	16.0
0.434	30.0
0.427	43.1

No. 6565 ARGON—METHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Argon, Mol. %	t
0.186	16.0
0.183	30.0
0.179	43.1

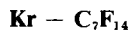
No. 6566 KRYPTON—METHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Krypton, Mol. %	t
0.614	16.0
0.556	30.0
0.502	43.1

No. 6567 KRYPTON—PERFLUOROMETHYLCYCLOHEXANE



CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Krypton, Mol. %	t
0.906	16.0
0.808	30.0
0.777	43.1

XENON—PERFLUOROMETHYLCYCLOHEXANE

No. 6568

Xe C₆F₁₁

CLEVER, H. L., SAYLOR, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Xenon, Mol. %	t
1.86	16.0
1.61	30.0
1.43	43.1

No. 6569

XENON—METHYLCYCLOHEXANE

Xe C₇H₁₄

CLEVER, H. L., SAYLER, J. H., GROSS, P. M. *J. Phys. Chem.* **62**, 1, 89 (1958)

Solubility of Xenon, Mol. %	t
2.50	16.0
2.18	30.0
1.85	43.1

No. 6570

RADON—VARIOUS SOLVENTS

Rn ———

NUSSBAUM, E., HURSH, J. B. *J. Phys. Chem.* **62**, 1, 81 (1958)

Solvent		Solubility of Radon cm ³ /cm ³ of the Solvent	t
Name	Formula		
Formic acid	CH ₂ O ₂	1.05	25
Formic Acid	CH ₂ O ₂	0.96	37
Formic Acid	CH ₂ O ₂	0.95	50
Acetic Acid	C ₂ H ₄ O ₂	4.43	25
Acetic Acid	C ₂ H ₄ O ₂	3.53	37
Acetic Acid	C ₂ H ₄ O ₂	3.30	50
Propanoic Acid	C ₃ H ₆ O ₂	6.52	25
Propanoic Acid	C ₃ H ₆ O ₂	5.23	37
Propanoic Acid	C ₃ H ₆ O ₂	5.47	50
Butanoic Acid	C ₄ H ₈ O ₂	7.52	25
Butanoic Acid	C ₄ H ₈ O ₂	6.82	37
Butanoic Acid	C ₄ H ₈ O ₂	5.99	50

Rn ——— (cont.)

Solvent		Solubility of Radon cm ³ /cm ³ of the Solvent	t
Name	Formula		
Pentanoic Acid	C ₅ H ₁₀ O ₂	8.64	25
Pentanoic Acid	C ₅ H ₁₀ O ₂	6.82	37
Pentanoic Acid	C ₅ H ₁₀ O ₂	6.06	50
Hexanoic Acid	C ₆ H ₁₂ O ₂	9.03	25
Hexanoic Acid	C ₆ H ₁₂ O ₂	7.23	37
Hexanoic Acid	C ₆ H ₁₂ O ₂	6.16	50
Heptanoic Acid	C ₇ H ₁₄ O ₂	8.75	25
Heptanoic Acid	C ₇ H ₁₄ O ₂	7.15	37
Heptanoic Acid	C ₇ H ₁₄ O ₂	6.38	50
Octanoic Acid	C ₈ H ₁₆ O ₂	9.03	25
Octanoic Acid	C ₈ H ₁₆ O ₂	6.89	37
Octanoic Acid	C ₈ H ₁₆ O ₂	6.16	50
Nonanoic Acid	C ₉ H ₁₈ O ₂	8.32	25
Nonanoic Acid	C ₉ H ₁₈ O ₂	6.89	37
Nonanoic Acid	C ₉ H ₁₈ O ₂	6.00	50
n-Decanoic Acid	C ₁₀ H ₂₀ O ₂	7.13	37
Undecanoic Acid	C ₁₁ H ₂₂ O ₂	6.88	37
Dodecanoic Acid	C ₁₂ H ₂₄ O ₂	5.93	37
Tridecanoic Acid	C ₁₃ H ₂₆ O ₂	5.95	37
Propenoic Acid	C ₃ H ₄ O ₂	5.01	37
9-Octadecenoic Acid	C ₁₈ H ₃₄ O ₂	8.10	25
9-Octadecenoic Acid	C ₁₈ H ₃₄ O ₂	6.72	37
9-Octadecenoic Acid	C ₁₈ H ₃₄ O ₂	5.86	50
9, 12-Octadecadienoic Acid	C ₁₈ H ₃₂ O ₂	7.96	25
9, 12-Octadecadienoic Acid	C ₁₈ H ₃₂ O ₂	6.32	37
Glycerol Triacetate	C ₉ H ₁₄ O ₆	3.42	25
Glycerol Triacetate	C ₉ H ₁₄ O ₆	2.88	37
Glycerol Tributanoate	C ₁₅ H ₂₆ O ₆	6.42	25
Glycerol Tributanoate	C ₁₅ H ₂₆ O ₆	5.01	37
Glycerol Trihexanoate	C ₂₁ H ₃₈ O ₆	7.25	25
Glycerol Trihexanoate	C ₂₁ H ₃₈ O ₆	6.10	37
Glycerol Trihexanoate	C ₂₁ H ₃₈ O ₆	5.17	50
Glycerol Trioctanoate	C ₂₇ H ₅₀ O ₆	7.55	25
Glycerol Trioctanoate	C ₂₇ H ₅₀ O ₆	6.12	37
Glycerol Trioctanoate	C ₂₇ H ₅₀ O ₆	5.63	50
Olive Oil		7.70	25
Olive Oil		6.25	37
Butter		5.91	37
Animal Fat		5.85	37
Human Fat		6.33	37

No. 6571

LANTHANUM—MERCURY

La Hg

PARKS, G., CAMPANELLA, J. L. *J. Phys. Chem.* **40**, 333 (1936)

Solubility of Lanthanum, Wt. %	t
0.00552	0.0
0.00907	12.5
0.00960	25.0
0.0134	37.5

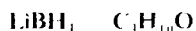
No. 6572

IODINE—PERFLUOROHEPTANE

I₂ C₇F₁₅GLEW, D. H., HILDEBRAND, J. H. *J. Phys. Chem.* **60**, 616 (1956)

Solubility of Iodine in Perfluoroheptane, Mol. %	t
0.001599	11.57
0.001776	10.10
0.002535	5.13
0.003599	0.03
0.005078	4.85
0.007154	9.82
0.009929	14.95
0.01360	19.94
0.01826	24.88
0.02370	29.94
0.03146	35.03
0.04145	40.01
0.05360	44.99
0.06890	49.94
0.08679	55.01
0.1119	60.10
0.1390	65.03

No. 6573 LITHIUM BOROHYDRIDE—ETHYL ETHER

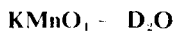


KOLSKI, T. L., MOORE, H. B., ROHL, L. E., MARTIN, K. Y., SCHAEFER, G. W.
J. Am. Chem. Soc. **80**, N 3, 549 (1958)

Solubility of Lithium Borohydride, Wt. %	t
4.10	25.0
2.27	15.0
1.50	5.3
1.26	0.0
0.72	-23
0.55	-34
0.46	-45
0.41	-63
0.28	-78
0.20	-112

POTASSIUM PERMANGANATE—DEUTERIUM OXIDE

No. 6574



NOONAM, E. C. *J. Am. Chem. Soc.* **70**, 2916 (1948)

Solubility of Potassium Permanganate, Wt. %	t
2.26	5
3.49	15
5.11	25
7.24	35

No. 6575 POTASSIUM BROMIDE—VARIOUS SOLVENTS

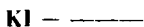


ISBIN, H. S., KOBE, K. A. *J. Am. Chem. Soc.* **67**, 464 (1945)

t = 25

Solvent		Solubility of Potassium Bromide, Wt. %
Name	Formula	
Ethylenediamine	$\text{C}_2\text{H}_8\text{N}_2$	0.77
2-Aminoethanol	$\text{C}_2\text{H}_7\text{NO}$	3.17
Ethyleneglycol	$\text{C}_2\text{H}_6\text{O}_2$	13.42

No. 6576 POTASSIUM IODIDE—VARIOUS SOLVENTS

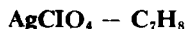


ISHIN, N. S., KOBE, K. A. *J. Am. Chem. Soc.* **67**, 464 (1945)

t — 25

Solvent		Solubility of Potassium Iodide, Wt. %
Name	Formula	
Ethylenediamine	$C_2H_8N_2$	42.83
2-Aminoethanol	C_2H_7NO	29.73
Ethyleneglycol	$C_2H_6O_2$	33.29

No. 6577 SILVER PERCHLORATE—TOLUENE



HILL, A. E., MILLER, F. W. *J. Am. Chem. Soc.* **47**, 2702 (1925)

Solubility of Silver Perchlorate, Wt. %	t	d_4^t
0.00	-75.3	0.854
6.01	-24.1	0.920
26.41	0.0	1.129
42.00	16.0	1.375
42.89	16.5	1.388
44.11	18	1.417
50.30	25	1.523
52.68	50	1.576
54.60	75	1.665

No. 6578 CESIUM BROMIDE—METHANOL



PAVLOPOULOS, T., STREHLOW, H. *Z. Phys. Chem.* **202**, 478 (1954)

Solubility of Cesium Bromide, Wt. %	t	d_4^t
2.12	18	0.806
2.20	25	0.801

METAL FLUORIDES—URANIUM HEXAFLUORIDE

No. 6579

XF — UF₆

MEARS, W. H., TOWNEND, R. V., BROADLY, R. D., TURISSINI, A. D., STAHE, R. F.,
Ind. Eng. Chem. **50**, N 12, 1771 (1958)

t = 70

Fluoride		Solubility of Fluoride in Uranium Hexafluoride Wt. %
Name	Formula	
Vanadyl Fluoride	VOF ₃	0.6
Vanadium Fluoride	VF ₅	> 10
Molybdenum Fluoride	MoF ₆	22.5 ^{x/}
Tungsten Fluoride	WF ₆	> 30
Uranyl Fluoride	UO ₂ F ₂	< 0.1
Antimony Fluoride	SbF ₅	> 40

^{x/} at 38°

No. 6580

INDIUM BROMIDE—VARIOUS SOLVENTS

InBr₃ — ———

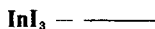
ENSSLIN, F., LESSMANN, O. *Z. anorg. Chem.* **254**, 92 (1947)

t = 20

Solvent		Solubility of Indium Bromide, Wt. %	d ₄ ²⁰
Name	Formula		
Benzene	C ₆ H ₆	0.48	0.883
1-2-Dichloroethylene	C ₂ H ₂ Cl ₂	2.31	1.269
Ethylene Glycol	C ₂ H ₆ O ₂	61.59	2.137
Glycerol	C ₃ H ₈ O ₃	7.00	1.205
Ethyl Acetate	C ₄ H ₈ O ₂	60.00	1.680
Pentyl Acetate	C ₇ H ₁₄ O ₂	56.16	1.550
Chloroform	CHCl ₃	3.10	1.497
Methanol	CH ₄ O	74.08	2.014
Ethanol	C ₂ H ₆ O	73.31	2.215
Pentanol	C ₅ H ₁₂ O	49.37	1.352
Acetone	C ₃ H ₆ O	72.33	1.902
Ethyl Ether	C ₄ H ₁₀ O	71.44	1.807
Carbon Tetrachloride	CCl ₄	Insoluble	—
Petroleum Ether	—	Insoluble	—

No. 6581

INDIUM IODIDE—VARIOUS SOLVENTS

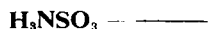
ENSSLIN, F., LESSMANN, O. *Z. anorg. Chem.* **254**, 92 (1947)

t — 20

Solvent		Solubility of Indium Bromide, Wt. %	d_4^{20}
Name	Formula		
Petroleum Ether	—	0.41	0.723
Benzene	C_6H_6	6.27	0.929
Chloroform	CHCl_3	8.98	1.558
Methanol	CH_3O	86.64	2.706
Ethanol	$\text{C}_2\text{H}_5\text{O}$	84.37	2.687
Pentanol	$\text{C}_5\text{H}_{12}\text{O}$	58.29	1.566
Ethylene Glycol	$\text{C}_2\text{H}_4\text{O}_2$	72.77	2.4603
Glycerol	$\text{C}_3\text{H}_8\text{O}_3$	10.85	1.249
Ethyl Acetate	$\text{C}_4\text{H}_8\text{O}_2$	78.35	2.351
Pentyl Acetate	$\text{C}_7\text{H}_{14}\text{O}_2$	73.75	2.096
Acetone	$\text{C}_3\text{H}_6\text{O}$	74.94	2.288
Ethyl Ether	$\text{C}_4\text{H}_{10}\text{O}$	85.50	2.248

No. 6582

SULFAMIC ACID—VARIOUS SOLVENTS

CUPERY, M. E. *Ind. Eng. Chem.* **30**, 627 (1938)

t — 25

Solvent		Solubility of Sulfamic Acid, Wt. %
Name	Formula	
Methanol	CH_3O	4.12
Ethanol + 2% Benzene	$\text{C}_2\text{H}_5\text{O} + \text{C}_6\text{H}_6$	1.67
Acetone	$\text{C}_3\text{H}_6\text{O}$	0.40
Ethyl Ether	$\text{C}_4\text{H}_{10}\text{O}$	0.009
Formamide	CH_3NO	16.67

N-PROPENYL-N¹-PHENYLTHIOUREA—CHLOROFORM

No. 6583



SHSHOKIN, V. P. *Izv. inst-a. fiz. khim. (Leningrad)* 4, 195 (1928)

Mutual Solubility. Mol. %		t
Propenylphenylthiourea	Chloroform	
19.85	80.15	46.7
28.56	71.44	58.0
36.86	63.14	66.5
47.46	52.54	75.0
62.76	37.24	85.0
67.26	32.74	86.0
78.36	21.64	90.8
100.0	0.00	99.1

No. 6584

METHANE—ACETALDEHYDE



TSIKLIS, D. S., SHVARTS, Ta. D. *GIAP Proceedings No. 9.* p. 25 (1959)

Mutual Solubility, Mol. %		t	R	Mutual Solubility, Mol. %		t	R
Methane	Acetaldehyde			Methane	Acetaldehyde		
2.2	97.8	1	10	92.0	8.0	20	10
95.35	4.65		10	4.6	95.4		20
4.9	95.1		20	93.5	6.5		20
96.7	3.30		20	6.7	93.3		30
7.0	93.0		30	94.6	5.4		30
97.5	2.50		30	8.6	91.4		40
9.1	90.9		40	95.58	4.42		40
97.92	2.08		40	10.6	89.4		50
11.1	88.9		50	96.25	3.75		50
98.16	1.84		50	12.3	87.7		60
13.0	87.0		60	96.6	3.4		60
98.30	1.70		60	14.1	85.9		70
14.7	85.3		70	96.83	3.17		70
98.38	1.62		70	15.6	84.4		80
16.2	83.8		80	96.87	3.13		80
98.41	1.59		80	17.2	82.8		90
18.2	81.8	90	96.90	3.10	90		
98.44	1.56	90	2.0	98.0	40	10	
2.15	97.85	20	10	4.0		96.0	20
89.3	10.7		40	20		11.2	88.8	60
5.9	94.1	30		94.78		5.22	60
90.95	9.05	30	12.7	87.3		70	
7.7	92.3	40	94.82	5.18		70	
92.50	7.50	40	14.1	85.9		80	
9.4	90.6	50	94.95	5.05		80	
93.78	6.22	50	15.5	84.5		90	
			94.98	5.02		90	
			95.00	5.00		100	
			95.03	4.97		110	

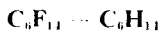
Name of Oil	Characteristics of Oil			Volume ratios of initial alcohol and oil	Solubility. Wt. %			
	d_4^{20}	n_D^{25}	Acidity mg.conc./g.		of Oil in Alcohol layer		of Alcohol in the Oil layer	
					A	B	A	B
Almond (Oil)	0.9112	1.4701	0.60	3 : 1	5.03	1.14	14.99	8.06
				1 : 1	5.67	2.16	13.89	8.33
				1 : 3	6.93	6.11	14.70	8.15
Apricot	0.9126	1.4701	0.10	3 : 1	4.35	1.69	15.23	8.30
				1 : 1	5.34	2.69	15.09	8.39
				1 : 3	6.33	5.81	14.62	7.75
Wood	0.9346	1.5162	7.80	3 : 1	8.72	1.41	13.38	7.80
				1 : 1	10.72	—	14.27	—
				1 : 3	—	—	—	—
Cod Liver (Oil)	0.9199	1.4772	1.0	3 : 1	4.66	1.27	12.49	7.33
				1 : 1	5.01	2.11	12.49	8.08
				1 : 3	6.55	5.25	11.90	7.08
Vegetable (Oil)	0.9110	1.4707	3.98	3 : 1	7.57	0.23	14.36	7.52
				1 : 1	10.90	1.94	15.45	7.70
				1 : 3	—	7.25	—	8.35
Linseed (Oil)	0.9251	1.4781	1.95	3 : 1	9.78	2.22	18.29	9.84
				1 : 1	11.99	4.24	19.52	9.76
				1 : 3	15.86	10.30	17.26	9.68
Neat's-foot Oil	0.8937	1.4684	6.11	3 : 1	9.43	2.98	15.22	10.64
				1 : 1	14.32	6.22	17.83	10.98
				1 : 3	—	11.70	19.45	10.33
Olive (Oil)	0.9085	1.4677	1.03	3 : 1	5.22	1.53	15.15	8.31
				1 : 1	6.51	3.26	15.59	8.59
				1 : 3	7.62	6.38	16.17	7.83
Peach (Oil)	0.9100	1.4701	0.29	3 : 1	4.16	—	14.00	—
				1 : 1	4.79	—	13.98	—
				1 : 3	4.06	—	13.71	—
Peanut (Oil)	0.9099	1.4695	0.48	3 : 1	4.53	—	15.91	8.74
				1 : 1	4.92	—	14.46	9.11
				1 : 3	—	—	14.46	11.57
Poppy Seed Oil	0.9177	1.4735	1.01	3 : 1	7.16	1.83	16.67	9.05
				1 : 1	8.70	3.11	17.28	9.23
				1 : 3	10.00	7.05	15.53	8.71
Rape Oil	0.9085	1.4705	0.78	3 : 1	3.46	1.40	13.75	8.57
				1 : 1	4.20	2.56	13.61	8.67
				1 : 3	5.77	6.27	13.46	7.74
Sesame Oil	0.9178	1.4719	0.24	3 : 1	5.16	1.93	14.47	16.54
				1 : 1	5.86	3.43	14.07	9.31
				1 : 3	7.85	7.15	13.40	8.27

Name of Oil	Characteristics of Oil			Volume ratios of initial and oil	Solubility. Wt. %			
	d_4^{24}	n_{25}^{25}	Acidity mg.conc./g.		of Oil in Alcohol layer		of Alcohol in the Oil layer	
					A	B	A	B
Soyabean Oil	0.9163	1.4735	0.29	3 : 1	6.08	1.09	15.35	8.23
				1 : 1	6.79	2.60	15.08	7.88
				1 : 3	6.14	4.56	14.72	7.35
Sunflower Seed Oil	0.9241	1.4809	2.09	3 : 1	8.61	0.51	15.24	7.02
				1 : 1	11.86	1.83	16.16	7.51
				1 : 3	13.61	6.99	16.49	6.64
Nut Oil	0.9186	1.4757	7.39	3 : 1	8.29	—	18.98	9.57
				1 : 1	11.50	1.17	21.33	10.52
				1 : 3	—	5.69	20.43	10.60
Whale Fat	0.9145	1.4748	2.10	3 : 1	4.74	—	13.09	7.68
				1 : 1	4.92	2.65	13.45	7.41
				1 : 3	7.57	3.20	13.09	7.50

Remark: A—Data on the mutual solubility for absolute alcohol.

B—For a 90% aqueous solution of alcohol.

Mutual Solubility, Wt. %		t
Glycerol	Hydroxybenzaldehyde	
94.64	5.36	91.5
81.70	18.30	148.5
73.46	26.54	165.5
58.18	41.82	175.5
51.68	48.32	176.5
47.78	52.22	176.6
41.33	58.67	176.5
22.98	77.02	170.5
8.62	91.38	143.5
4.40	95.60	106.5

BEDFORD, R. G., DUNLAP, R. D. *J. Am. Chem. Soc.* **80**, N 1, 282 (1958)

Mutual Solubility, Mol. %		t
Perfluorohexane	Hexane	
8.47	91.53	5.90
13.73	86.27	15.93
17.78	82.22	19.45
32.51	67.49	22.60
41.35	58.65	22.51
48.54	51.46	21.92
54.27	45.73	20.95
57.95	42.05	19.49
61.37	38.63	17.97
66.63	33.37	14.89
80.68	19.32	-1.58
89.94	10.06	-23.58