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(Original designation BM-30)

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S.C. Iverl. Co.  
of N.J.

Translation of Technical Oil Mission Microfilm Reel #1  
Beg 2148 - 30/4/48  
Report by Dr. Feiler

THE SOLUBILITY OF CARBON DIOXIDE, SULFUR  
MOXIDE AND HYDROGEN SULFIDE IN ORGANIC LIQUIDS.

NITROGEN DIVISION/HYDROCARBON RESEARCH, OPPAU  
September 1, 1948

Translation by D. W. Mason  
April 11, 1948

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THE SOLUBILITY OF CARBON DIOXIDE, SULFUR  
DIOXIDE AND HYDROGEN SULFIDE IN ORGANIC LIQUIDS.

Contents

- I. Introduction
- II. Gases used.
- III. Solvents used.
- IV. Apparatus, experimental methods and expression  
of results.
- V. Experimental results.
- VI. Summary.
- VII. Tables.

## I. INTRODUCTION

Carbon dioxide, sulfur dioxide, and hydrogen sulfide, alone or as constituents of technical gas mixtures, frequently come in contact with organic liquids. Thus, it is important to know the solubility relationships concerned. Moreover, it was of interest to study these relationships from the standpoint of the possibility of separating these gases from one another or from other gas mixtures by simple washing with organic liquids. Systematic investigation in this direction appears to be important, since much experience has generally shown that carbon dioxide, sulfur dioxide and hydrogen sulfide show quite considerable solubility not only in water, but also in organic liquids.

In this connection, it may be noted that washing processes for CO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S whereby easily decomposed compounds are formed, are already known. Of special concern here, are the "Alkazid" process of the I.G. Farbenindustrie, according to which CO<sub>2</sub> and H<sub>2</sub>S are absorbed by solutions of strong inorganic bases with weak organic acids (1) and processes in which SC<sub>2</sub> is absorbed by organic bases (2). Examples of the latter are the "Sulfidin" process of the Metallgesellschaft A.G., and the phenolate process of the Koppers Co., Pittsburgh, in which CO<sub>2</sub> and H<sub>2</sub>S are separated from gas mixtures by means of mixtures of strong organic bases with phenols.

Processes such as the above, which depend upon chemical binding of the gas, are not considered in the present work. Here the purely physical solubility of CO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S in a great number of organic liquids has been systematically investigated, relationships clarified and practical applications verified, especially in relation to the purification and separation of technical gas mixtures.

- (1) Chemische Fabrik 1939, p. 233.  
(2) Metallgesellschaft A.G.: D.P. 606437, 621529, 621760,  
623018, 645979.  
Gas F. chem. Industrie: D.P. 557723.  
J.C.J.: P.P. 371529.  
Ciba: P.P. 698400, P.P. 539928.  
Beechwood and Dual: AP2047819.

## II. GASES USED

The following gases were used:

CO <sub>2</sub> , cylinder . . . . .	99%
SO <sub>2</sub> , cylinder, washed with concentrated sulfuric acid . . . . .	100%
H <sub>2</sub> S, from iron sulfide, washed with water, liquefied, distilled and led over calcium chloride . . . . .	99%

### III. SOLVENTS USED

Organic liquids were collected as extensively as possible for the absorption experiments, except in cases of too high a vapor tension, too high a viscosity or too high a price.

### IV. APPARATUS, EXPERIMENTAL METHODS AND EXPRESSION OF RESULTS

The absorptions were all carried out at 20°C. and atmospheric pressure and expressed as already described in "The Solubility of Gaseous Hydrocarbons in Organic Liquids" by Dr. Feiler (Nitrogen Division report of July 1, 1937).

In this report also, the solubility is expressed as gas volume in cc., reduced to standard conditions, absorbed by 1 cc. of liquid. The values are shown below in tables (1), Table A: Aliphatic Organic Liquids; Table B: Aromatic Organic Liquids; Table C: Heterocyclic Organic Liquids. In Tables D, E and F, are shown the 25 best solvents for each of the three gases, together with the corresponding solubility values.

### V. EXPERIMENTAL RESULTS

The absorption experiments (see tables) carried out with CO<sub>2</sub>, SO<sub>2</sub>, and HgS in organic liquids at 20°C. under atmospheric pressure show the following:

1. The solubility of CO<sub>2</sub>, SO<sub>2</sub>, and HgS is considerably higher in most organic liquids than in water and in most cases is several times that of water; thus in several cases there is absorbed at 20°C. and one atmosphere pressure by 1 cc.:

CO<sub>2</sub>: Over 5 cc. (Water 0.83 cc.).  
SO<sub>2</sub>: Over 200 cc. (Water 39.37 cc.).  
HgS: Over 29 cc. (Water 3.33 cc.).

2. These gases react with different organic liquids as already known in part; thus the following reactions occur:

CO<sub>2</sub> with aliphatic amines, benzyl amine, and piperidines;  
CO<sub>2</sub> with amines, pyridine, piperidine, "quinaldine", aldehydes,  
and alkyl alcohols;  
HgS with amines, piperidine, several aldehydes and ketones such as  
benzaldehyde, o-chlorobenzaldehyde, cyclohexanone, alcohol, acetoin,  
pyruvic acid, furfural, as well as with diethyl sulfate.

(1) Footnote 1 (in the tables) indicates an increase due to high vapor tension, and footnote 2 indicates reaction of the gas with the solvent.

The reaction with organic bases is the basis for the "sulfidin" and "alkalid" processes (see introduction).

3. The comparative solubilities of CO<sub>2</sub>, SO<sub>2</sub>, and HgS in organic liquids range as follows:

Solubility of HgS is 3-10X solubility of CO<sub>2</sub>.

(3-15X solubility of HgS.

Solubility of SO<sub>2</sub> is (20-100X solubility of CO<sub>2</sub>.

4. The solubilities of CO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S in organic liquids are comparable to gaseous hydrocarbons as follows:

Solubility of CO<sub>2</sub> approximates the solubility of ethylene and ethane.

Solubility of HgS approximates the solubility of propylene and propane.

Solubility of SO<sub>2</sub> approximates the solubility of butylene and butane.

The removal of CO<sub>2</sub>, HgS, and SO<sub>2</sub> from gaseous hydrocarbon mixtures is, therefore, only difficultly possible.

5. Organic liquids which contain the carbonyl or carboxyl group and especially esters and acids (provided they do not react) are especially suited as purely physical solvents for these gases. For the individual gases the following are especially suited:

CO<sub>2</sub>: Aldehydes, ketones, acids, esters and their derivatives, as well as pyridine and acetonitrile, formamide and quinoline.

HgS: Several ketones, esters and their derivatives, as well as pyridine, acetonitrile, quinaldine, and quinoline.

For each of the three gases, the 25 best solvents with the solubility values are given in respective tables D, E, and F.

#### VI. SUMMARY

The solubility of CO<sub>2</sub>, SO<sub>2</sub>, and HgS in a great many organic liquids at atmospheric pressure and 20° has been obtained. It has been shown that in most cases the solubility of these gases is many times that in water, so that enrichment or removal of these gases from gas mixtures by physical absorption in organic liquids and subsequent desorption appears possible. Organic liquids containing carbonyl or carboxyl groups, especially esters, are best suited as such purely physical solvents. Reactions between these gases and solvents, such as between CO<sub>2</sub> and aliphatic amines or SO<sub>2</sub> and aromatic amines, have not been further investigated here.

In especially favorable cases of purely physical solvents, it is planned to carry out experiments directed toward the practical separation of the gases from technical gas mixtures.

This work was carried out in 1937.

Translation by:

D. M. Mason

4/11/68: eh/

TABLE A

Aliphatic Compounds

Quantity of gas in cc. (reduced to standard conditions) absorbed at 20°C. and 1 atmosphere by 1 cc. of liquid.

	Cap	SOP	HGS
<u>Hydrocarbons</u>			
Hexane	(1)	5.64	5.63
Heptane	0.96	9.26	9.95
Isooctane (2,2,4 trimethyl pentane)	0.33	8.6	8.1
Iso-estene (trimethyl pentene-1)	1.14	25.4	7.92
Petroleum ether	(1)	(1)	(1)
Benzine	(1)	6.79	4.0
Normal benzine	(1)	6.36	4.34
Ligroin (BP 100-130°)	1.15	14.38	6.8
Petroleum	1.16	12.33	9.84

Halogen Compounds

Methylene chloride	(1)	44.3	3.6
Chloroform	(1)	61.3	12.1
Bromoform	1.29	27.55	17.5
Carbon tetrachloride	0.55	13.21	7.23
Ethylene chloride	2.07	93.95	16.92
Ethylene dichloride	(1)	23.9	5.76
Ethylene trichloride	1.48	33.2	10.5
Ethylene tetrachloride	1.69	17.0	8.0
Trichloroethane	2.78	69.9	16.15
Tetrachloroethane	2.36	63.0	15.38
Pentachloroethane	2.10	26.8	11.12
Ethylene bromide	1.79	64.1	17.2
Propylene bromide	1.98	32.8	14.88
Ethyl iodide	(1)	49.6	14.02
Eetyl iodide	1.79	39.4	12.87
Allyl chloride	(1)	48.0	6.22

Amine Compounds and Their Derivatives

Formamide	1.78	241.9	7.53
Methyl amine	(2)	(2)	(2)
Triethyl amine	(2)	(2)	14.67
Ethylene diamine	(2)	(2)	(2)

Alcohols and Their Halogen Derivatives

Methanol	2.07	19.77	16.14
Ethanol	1.79	113.1	10.44
n-propyl alcohol	2.01	82.8	10.8
Isopropyl alcohol	1.67	77.0	9.15
n-butyl alcohol	1.96	68.0	9.73
Isobutyl alcohol	1.77	63.7	9.33
Isocetyl alcohol	1.93	66.2	8.33
n-hexyl alcohol	1.75	62.9	9.64
Octyl alcohol	1.31	52.4	7.50
Allyl alcohol	2.37	(2)	11.88
Ethylene glycol	1.13	109.6	6.52
Butylene glycol	1.19	55.7	6.87

TABLE A (con.)

	COP	SOP	HOP
Ethylene chlorhydrin	3.33	126.0	12.69
Etychlorhydrin	3.72	226.5	19.43
Dichlorhydrin	2.00	51.4	11.43
<u>Ethers</u>			
Ethyl ether	(1)	51.8	6.17
Isoamyl ether	1.93	39.4	9.08
B, B'-dichlorethyl ether	2.47	116.9	16.43
<u>Aldehydes and Their Derivatives</u>			
Formaldehyde (30% Solution)	1.63	(1)	(1)
Paraldehyde	2.79	(2)	18.7
<u>Ketones and Their Derivatives</u>			
Acetone	1.93	231.7	20.33
Acetylacetone	4.17	186.8	17.84
Methyl ethyl ketone	3.49	226.2	25.3
Micropropyl ketone	3.26	122.1	17.16
Alcel	0.89	(1)	(2)
Aerolein	0.45	231.5	(2)
Chloroacetone	3.49	192.5	17.3
<u>Acids, Saturated Monobasic</u>			
Formic acid	2.23	93.7	5.31
Acetic acid	4.15	146.6	12.21
Acetic anhydride	5.12	217.6	16.06
Propionic acid	3.95	99.3	12.00
Butyric acid	3.59	70.8	11.33
Valeric acid	3.03	56.6	10.13
Pyruvic acid (?) (Benztraubensäure)	0.83	72.7	—
<u>Acids, Unsaturated Monobasic</u>			
Acrylic acid	1.45	96.1	6.04
Croic acid	1.14	20.0	3.14
<u>Halogen Substituted Fatty Acids</u>			
Dichloroacetic acid	2.61	67.6	10.13
Chloroacetyl chloride	(1)	69.7	8.1
<u>Acid Chlorides and Acid Anides</u>			
Acetyl chloride	(1)	87.3	7.6
<u>Esters</u>			
Methyl formate	—	153.1	9.97
Ethyl formate	1.29	123.1	13.0
Propyl formate	2.03	163.0	16.85
Methyl acetate	2.40	231.0	17.25
Ethyl acetate	4.17	197.7	20.55
Propyl acetate	4.25	166.3	20.2
n-butyl acetate	4.19	143.3	19.8
Isoamyl acetate	4.02	123.0	17.23
Methyl propionate	3.91	184.6	19.7

TABLE A (con.)

	COD	SOD	HgB
Ethyl propionate	2.37	159.2	20.5
Ethyl butyrate	4.02	133.3	19.3
Diethyl oxalate	4.31	176.5	17.3
Ethyl malonate	4.11	170.6	17.63
Glycol monoisostearate	3.56	206.5	15.47
Glycol diacetate	4.49	214.0	17.7
Methyl glycol acetate	5.12	263.8	24.2
Ethyl glycol acetate	4.63	203.8	23.1
Butyl glycol acetate	3.77	159.8	19.05
Diethyl maleamate	4.0	170.0	17.3
Ethyl succinate	3.84	163.5	18.3
Acetoneetic ester	4.14	197.6	17.35
Acetonitrile	5.59	230.0	20.28
Ethyl chloroacetate	3.73	144.1	17.1
Ethyl chloroformate	3.53	106.9	12.75
Dimethyl sulfate	4.69	173.1	12.65
Diethyl sulfate	3.48	137.4	-

Sulfur Compounds

Carbon disulfide	(1)	0.86	1.61
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Fats, Oils, and Waxes

Pine oil	1.42	27.1	8.02
Linseed oil	1.48	35.8	9.37
Olive Oil	1.27	50.0	9.47
Sesame oil	1.29	(2)	(2)
Turpentine oil	1.46	58.1	7.32
Neats foot oil	1.26	51.5	7.61
Rapeseed oil	1.21	29.2	7.13

TABLE B  
AROMATIC COMPOUNDS

	60°	50°	Nes
<u>Hydrocarbons</u>			
Benzene	0.61	79.9	11.31
Toluene	1.03	93.3	13.70
Ethyl benzene	1.05	69.6	12.63
Cumene	1.01	68.6	10.73
Styrene	1.02	74.6	13.3
Xylene (Mixed)	1.03	79.3	12.4
Mesitylene	1.06	82.6	10.72
Pseudo cumene	1.04	76.8	11.65
p-Cymene	1.09	80.0	10.79
Cyclohexene	(1)	8.0	8.28
Tetralin	1.02	69.8	10.6
c-Methyl naphthalene	1.12	68.2	10.72
<u>Halogen Derivatives of Hydrocarbons</u>			
Chlorobenzene	2.0	89.1	12.74
m-Chlorotoluene	1.72	82.2	12.76
Iodobenzene	1.19	40.2	12.0
Benzyl chloride	1.73	73.1	12.7
Benzal chloride	1.63	50.0	11.38
Toluene trichloride	1.33	29.6	8.76
c-Dichloro benzene	1.63	39.9	10.0
c-Chlorotoluene	1.79	51.0	10.92
m-Chlorotoluene	1.75	51.0	10.86
p-Chlorotoluene	1.87	52.4	11.1
c-Bromotoluene	1.43	69.2	11.4
Trichlorobenzene	1.47	25.2	8.16
c-Chloronaphthalene	0.93	40.0	8.84
c-Bromonaphthalene	0.93	35.0	8.47
<u>Nitro Derivatives of Hydrocarbons</u>			
Nitro benzene	2.44	108.4	12.6
c-Nitrotoluene	2.23	93.4	11.62
m-Nitrotoluene	2.13	92.3	11.2
<u>Aromatic Ethers</u>			
Anisole	2.34	150.0	15.2
Phenetole	1.83	92.8	13.15
Anisidine	1.24	(2)	13.08
<u>Amino and Azo Compounds</u>			
Aniline	1.36	(2)	16.10
Methyl aniline	1.22	(2)	14.73
Dimethylaniline	1.39	(2)	15.08
Hexamethylaniline	1.24	(2)	19.08
Dimethylaniline	1.33	(2)	12.6
c-Toluidine	1.6	(2)	16.4
p-Toluidine	1.66	(2)	15.58
Xylylamine	1.52	(2)	16.1
c-Chloraniline	1.51	157.8	14.4

TABLE B (con.)

	CO <sub>2</sub>	SO <sub>2</sub>	N <sub>2</sub> O
m-chloraniline	1.42	(2)	13.95
Benzylamine	(2)	(2)	(2)
<u>Cresols and Their Derivatives</u>			
m-Cresol	1.53	92.6	10.48
c-Chlorophenol	1.73	63.3	13.0
<u>Aromatic Alcohols</u>			
Cyclohexanol	1.22	52.8	8.46
Methyl cyclohexanol	1.03	42.5	7.65
Benzyl alcohol	1.33	94.7	10.32
<u>Aldehydes</u>			
Benzaldehyde	2.74	157.1	(2)
c-Chlorobenzaldehyde	2.21	105.4	(2)
<u>Ketones</u>			
Cyclohexanone	3.04	211.2	(2)
<u>Acids and Their Derivatives</u>			
Benzoyl chloride	2.03	62.2	10.47
<u>Esters</u>			
Ethyl benzoate	2.53	107.6	14.3
Ethyl cinnamate	2.09	95.9	13.3
Methyl salicylate	2.33	90.1	11.2
Triacetin phosphate	1.22	72.4	10.6
Ethyl salicylate	2.33	78.3	10.94
<u>Terpenes</u>			
Dipentene	1.49	42.4	9.0
Limonene	1.82	83.6	10.15

TABLE C  
HETEROCYCLIC COMPOUNDS

Heterocyclic Compounds

Furfural	3.45	172.0	(2)
Pyridine (technical)	3.43	(2)	29.5
Piperidine	(2)	(2)	(2)
Quinoline, pure	1.84	224.2	17.5
Quinaldine	1.73	(2)	19.6

TABLE D  
SOLUBILITY OF CO<sub>2</sub>

Solvent	cc. CO <sub>2</sub> (red. to STP) dissolved at 20° and 1 atm. by 1 cc. liquid.
Acetonitrile	3.39
Acetic anhydride	5.12
Methylglycol acetate	3.12
Dimethylsulfate	4.66
Ethylglycol acetate	4.63
Glycol diacetate	4.49
Diethyl oxalate	4.31
Propyl acetate	4.25
n-Butyl acetate	4.19
Ethyl acetate	4.17
Acetyl acetone	4.17
Acetoacetic ester	4.14
Glacial acetic acid	4.15
Ethyl malonate	4.11
Ethyl butyrate	4.02
Isobutyl acetate	4.02
Methyl malonate	4.0
Propionic acid	3.98
Methyl propionate	3.91
Cyclohexanone	3.84
Pyridine	3.84
...-methyl succinate	3.84
Butylglycol acetate	3.77
Ethyl chloroacetate	3.75
Epichlorohydrin	3.72

TABLE II  
SOLUBILITY OF SO<sub>2</sub>

Solvent	cc. SO <sub>2</sub> (reduced to S.T.) dissolved at 20° and 1 atm. by 1 cc. of liquid.
Acetone	221.7
Acetonitrile	250.0
Methylglycol acetate	265.6
Terephthalide	241.9
Acrolein	231.3
Methyl acetate	231.0
Epychlorhydrin	226.5
Methyl ethyl ketene	226.2
Quinoline	224.2
Acetic anhydride	217.6
Glycol diacetate	214.0
Cyclohexanone	211.2
Ethylglycol acetate	208.8
Glycol monacetate	206.9
Ethyl acetate	197.7
Methanol	197.7
Acetoacetic ester	197.4
Chloroacetone	192.6
Acetylacetone	188.6
Methyl propionate	186.6
Ethyl formate	183.1
Dimethyl sulfate	176.6
Methyl oxalate	176.6
Furfural	172.0
Methyl malonate	170.0

TABLE F  
SOLUBILITY OF E. G.

Solvent	cc. E.G. (reduced to S.M.) dissolved at 20°C. and 1 Atm. by 1 cc. of liquid.
Pyridine	29.3
Methylglycol acetate	26.4
Methylethyl ketone	25.5
Methylglycol acetate	25.1
Ethyl acetate	20.85
Ethyl propionate	20.80
Acetone	20.35
Acetonitrile	20.28
Propyl acetate	20.20
Methyl propionate	19.7
Butylglycol acetate	19.65
Hypochlorhydrin	19.48
N-nitrosoylaniline	19.08
Paraldehyde	18.7
n-Ethyl acetate	18.6
Quinuclidine	18.6
Ethyl acetate	18.5
Ethyl butyrate	18.3
Acetoneacetic ester	17.95
Glycol dimonocotate	17.7
Ethyl valonate	17.60
Quinoline	17.5
Bromoform	17.5
Methyl acetate	17.25
Iodoethyl acetate	17.25