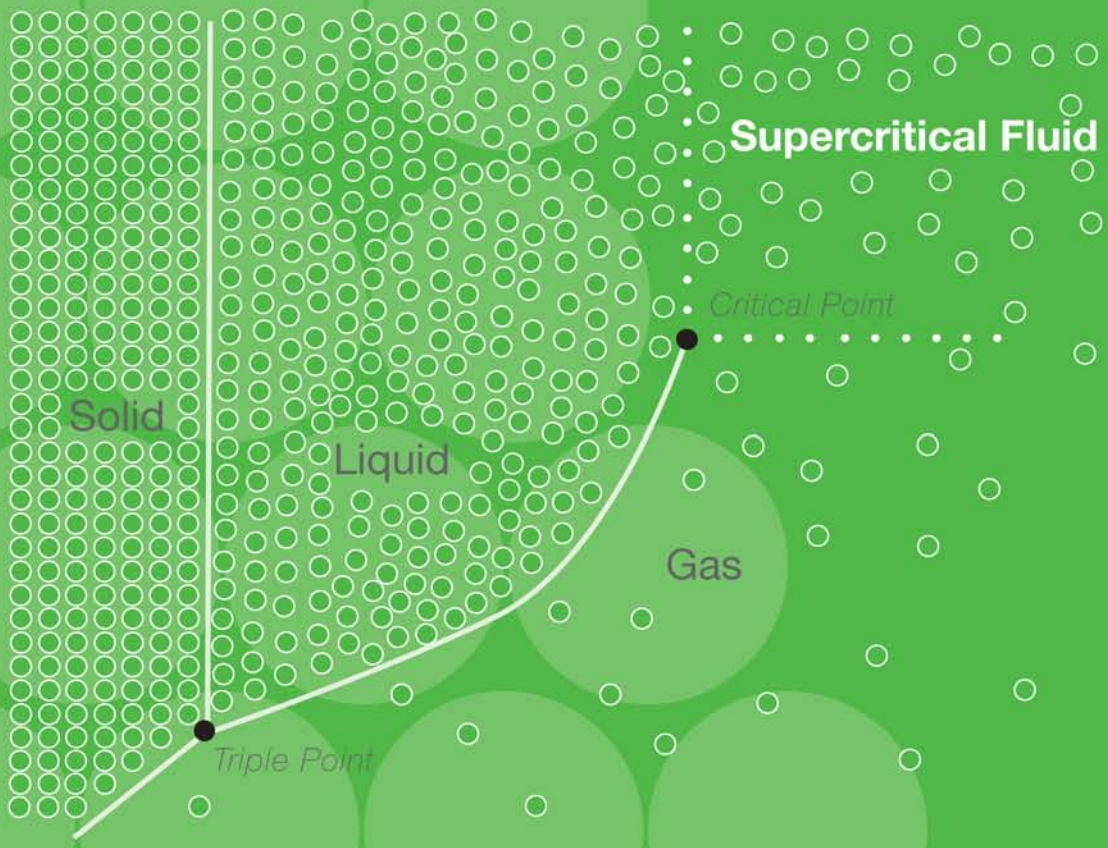
Solubility in Supercritical Carbon Dioxide



Ram B. Gupta
Jae-Jin Shim

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Preface

Since Cagniard de la Tour discovered the special phenomenon of supercritical fluid in 1822 and Hannay and Hogarth observed its solvent power in 1879, various aspects of supercritical fluids have received significant attention. Major advancements in the technology aspects of supercritical fluids have occurred, especially over the last 25 years, in the extraction of petrochemicals, foods, pharmaceuticals, fragrances, flavors, nutraceuticals, and pesticides; polymerization and biological reactions, and various organic and inorganic chemical reactions; cleaning of semiconductors and precision machinery; aerogel manufacturing; textile dyeing and dry cleaning; metal de-binding; and manufacturing of micro- and nano-particles. Commercial applications include coffee and tea decaffeination, nicotine removal from tobacco, extraction of fragrances and flavors, plant wastewater treatment, dry cleaning, and residuum oil extraction. The scope of supercritical fluid technology is expanding into a variety of areas including chemistry, biology, food science, environmental science, military, cosmetics, textile engineering, metallurgical engineering, semiconductor industry, and polymer industry.

Supercritical fluids exhibit liquid-like solvent properties and gas-like transport properties. The combination of these properties makes supercritical fluids suitable for the various applications mentioned above. Carbon dioxide is the supercritical fluid of choice due to its mild critical temperature, nontoxicity, nonflammability, and low cost. Carbon dioxide becomes a supercritical fluid when it is heated above 31.1°C and simultaneously compressed above 73.8 bar.

The environmentally benign nature of carbon dioxide comes from its very stable molecular bonds, which in turn do not provide high polarity. In fact, a carbon dioxide molecule has only a weak quadrupole moment, due to minor charge separation on oxygen and carbon atoms. Hence, the molecular interaction with most polar and heavy substances of interest is minor, providing only a weak solvent power. If needed, a small amount of cosolvent (also termed as entrainer or modifier) is added to enhance polarity and affinity with solutes. In many applications, however, the design limitation is the solubility of the substance in supercritical carbon dioxide. Therefore, the solubility data are essential both for the initial feasibility study and final process design.

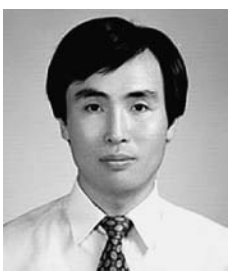
This book provides a compilation of solubility data in supercritical carbon dioxide for various liquids, solids, polymers, foods, drugs, nutraceuticals, pesticides, dyes, metal complexes, etc. The data were compiled from various research articles, reports, and theses. A reasonable effort was made to ensure that all published data are compiled in this book. However, there may be some research papers that are not tracked in literature searches, especially those written in non-English languages. The solubility data are arranged in alphabetical order of the compound name for easy access, and the data are provided in both tabular and graphical format for better understanding and easier comparison of the solubility behavior of these compounds. At the end of each table, compound synonym(s) and the reference for the original data are provided. Although the source articles provide data in various units, this book uses a uniform unit of mole fraction solubility, or weight fraction solubility if the molecular weight is not known, both in the order of 10^6 (i.e., parts per million). This book provides only actual experimental solubility data, and does not contain any empirical or theoretical correlations or predictions, except for a brief discussion of modeling in the Introduction.

Collecting over 1200 data tables and compiling them accurately into the present format was an intensive effort. The authors appreciate the assistance of several people at Yeungnam University and Auburn University, including Sang Min Paek, Yeong-Ju Kim, Hyo-jung Kim, Mee Hwa Kim, Jong-Won Kim, Da Young Baek, Auburn Hudgins, Suhaila Rowe, Christy Hea, Haley Brooks, Bhaven Sayania, Dmitri Varlamov, Charles Angels, Jerald Dumas, and Katherine Wilbank. We greatly appreciate Dr. Dirk Tuma, University of Kaiserslautern, Germany, for his comprehensive review of tables and graphs and suggestions on synonyms. We are grateful to Peter Livant,

Department of Chemistry, Auburn University, and Choon Sup Ra, Department of Chemistry, Yeungnam University, for their suggestions in selecting synonyms for chemical complexes. We also appreciate the efforts of researchers who responded to our inquiries to verify their published data. JJS appreciates partial financial support by the Yeungnam University research grants in 2004. Finally, support from our families—Deepti, Pranjal, and Rohan Gupta, and Mee-Hee, So-Youn, and Joseph Shim—was key to the completion of this book.

Authors

Ram B. Gupta is professor of chemical engineering at Auburn University, Alabama. He has published numerous research papers, holds several patents on supercritical fluid technology, and is the recipient of the James A. Shannon Director's Award (1998) from the National Institutes of Health (1998), Young Faculty Career Enhancement Award (1997) from Alabama NSF-EPSCoR, Junior and Senior Research Awards (1998, 2002) from the Auburn Alumni Engineering Council, and Science and Engineering Award (2002–2004) from DuPont. He serves on the editorial/advisory boards of *Nanomedicine: Nanotechnology, Biology and Medicine*, the *Journal of Biomedical Nanotechnology*, and *Industrial & Engineering Chemistry Research*. In addition, he is consultant to various companies on supercritical fluid technology. He received the B.E. degree (1987) from the Indian Institute of Technology, Roorkee, India, the M.S. degree (1989) from the University of Calgary, Canada, and the Ph.D. degree (1993) from the University of Texas at Austin, all in chemical engineering.



Jae-Jin Shim is professor of chemical engineering at Yeungnam University, Korea (Republic of). He received his B.S. degree (1980) from Seoul National University, South Korea, M.S. degree (1982) from the Korea Advanced Institute of Science and Technology (KAIST), and Ph.D. degree (1990) from the University of Texas at Austin, all in chemical engineering. He has served as the chairman of the School of Chemical Engineering and Technology and as the associate dean of engineering for academic affairs at Yeungnam University. He also has served on the numerous government committees in Korea for research and education program evaluations. He serves as the editor of *Clean Technology* published by the Korean Society of Clean Technology and the director of the Institute of Clean Technology at Yeungnam University and is a member of American Institute of Chemical Engineers and the Korean Institute of Chemical Engineers. He has extensively published research papers on the phase equilibria of supercritical fluid-polymer systems, supercritical fluid chromatography, solubility of solid dyes in supercritical carbon dioxide and cosolvent-laden supercritical fluids and their sorption in polymers and textiles, and polymerizations and chemical reactions in supercritical fluids.

Abbreviations

SOLUBILITY

M	Molar solubility (moles solute/liter of CO_2)
S	Mass solubility per volume of CO_2 (g solute/liter of CO_2)
W	Mass solubility per mass of CO_2 (g solute/kg CO_2)
w	Mass fraction solubility (g solute/g fluid mixture)
y	Mole fraction solubility (mole solute/mole fluid mixture)

MOLECULAR WEIGHT

Mn	Number average molecular weight of a polymer
Mw	Weight average molecular weight of a polymer
MW	Molecular weight of a chemical compound
FW	Formula weight of a chemical complex

NOMENCLATURE

(+)-	Clockwise rotation of the plane of polarized light
(−)-	Counterclockwise rotation of the plane of polarized light
-block-	Block copolymer
-co-	Random copolymer
D-	Dextrorotatory
E	Entgegen (trans-configuration)
L-	Levorotatory
m-	Meta isomer
o-	Ortho isomer
p-	Para isomer
rac-	Racemic mixture
-ran-	Random copolymer
R	Clockwise configuration according to Cahn-Ingold-Prelog notation
S	Counterclockwise configuration according to Cahn-Ingold-Prelog notation
tert-	Tertiary
Z	Zusammen (*cis*-configuration)

OTHER

L	Liter
Nl	Volume in liter of fluid at normal condition (273.15 K and 1.013 bar)
P	Pressure (bar)
T	Temperature (K)
x	Mole fraction in liquid phase

Table of Contents

List of Solutes

Solute	Formula	MW	Data Table No.
Acenaphthene	$C_{12}H_{10}$	154.21	A-1–A-3
4-Acetamidophenyl acetate	$C_{10}H_{11}O_3$	193.20	A-11, A-12
Acetaminophen	$C_8H_9NO_2$	151.16	A-4–A-6
Acetic acid	$C_2H_4O_2$	60.05	A-7
Acetone	C_3H_6O	58.08	A-8, A-9
Acetonitrile	C_2H_3N	41.05	A-10
17α-Acetoxy-6-dehydro-6-methylprogesterone	$C_{24}H_{32}O_4$	384.51	M-6
17α-Acetoxy-6α-methylprogesterone	$C_{24}H_{34}O_4$	386.52	M-4
21-Acetoxy-17α-hydroxypregn-4-ene-3,11,20-trione	$C_{23}H_{30}O_6$	402.48	C-191
4′-Acetoxyacetanilide	$C_{10}H_{11}NO_3$	193.20	A-11, A-12
p-Acetoxyacetanilide	$C_{10}H_{11}NO_3$	193.20	A-11, A-12
2-Acetoxybenzoic acid	$C_9H_8O_4$	180.16	A-13, A-72, A-73
Acetylsalicylic acid	$C_9H_8O_4$	180.16	A-13, A-72, A-73
Acridine	$C_{13}H_9N$	179.22	A-14–A-18
Adamantane	$C_{10}H_{16}$	136.23	A-19, A-20
Aesculetin	$C_9H_6O_4$	178.14	A-21
Albumin	N/A	N/A	A-22
Alizarin	$C_{14}H_8O_4$	240.22	C-156
4-Allyl-2-methoxyphenol	$C_{10}H_{12}O_2$	164.20	E-28
Ametryne	$C_9H_{17}N_5S$	227.33	A-23, A-24
1-Amino-2-ethylanthraquinone	$C_{16}H_{13}NO_2$	251.28	A-30
1-Amino-4,5-dihydroxy-8-(phenylamino)anthraquinone	$C_{20}H_{14}N_2O_4$	346.34	C-106
1-Amino-2,3-dimethylanthraquinone	$C_{16}H_{13}NO_2$	251.28	A-28
1-Amino-2,4-dimethylanthraquinone	$C_{16}H_{13}NO_2$	251.28	A-29
1-Amino-4-hydroxy-2-phenoxyanthraquinone	$C_{20}H_{13}NO_4$	331.33	C-113, C-130–C-135
1-Amino-2-methylanthraquinone	$C_{15}H_{11}NO_2$	237.25	A-32, C-116, C-117
(*S*)-2-Amino-3-phenylpropanonic acid	$C_9H_{11}NO_2$	165.19	P-80
(*S*)-2-Amino-4-methylpentanoic acid	$C_6H_{13}NO_2$	131.17	L-8
(2*S*)-2-Amino-3-(1*H*-indol-3-yl)-propanoic acid	$C_{11}H_{12}N_2O_2$	204.23	T-105
4-Amino-4′-[bis(2-hydroxyethyl)-amino]azobenzene	$C_{16}H_{20}N_4O_2$	300.36	C-89
4-Amino-4′-nitroazobenzene	$C_{12}H_{10}N_4O_2$	242.24	C-113–C-115
2-Aminoacetic acid	$C_2H_5NO_2$	75.07	G-8
2-Aminobenzoic acid	$C_7H_7NO_2$	137.14	A-25–A-27
4-Aminobenzoic acid ethyl ester	$C_9H_{11}NO_2$	165.19	B-11, B-12
2-Aminofluorene	$C_{13}H_{11}N$	181.23	A-31
1-((4-aminophenyl)azo)-2-naphthol	$C_{16}H_{13}N_3O$	263.30	A-33
5-(4-aminophenylazo)-2-hydroxy-benzoic acid sodium salt	$C_{13}H_{10}N_3NaO_3$	279.23	C-157

(*continued*)

Solute	Formula	MW	Data Table No.
2-Aminopyrazine	$C_4H_5N_3$	95.10	A-34
Anguidin	$C_{19}H_{26}O_7$	366.41	D-11
1-Anilino-4,5-dihydroxy-8-nitroanthraquinone	$C_{20}H_{12}N_2O_6$	376.32	C-99
4-Anilino-3-nitrobenzenesulfonanilide	$C_{18}H_{15}N_3O_4S$	369.39	C-148
p-Anisaldehyde	$C_8H_8O_2$	136.15	A-35
m-Anisamide	$C_8H_9O_2N$	151.16	M-17
p-Anisamide	$C_8H_9O_2N$	151.16	M-18
Aniseed essential Oil	N/A	N/A	A-36
o-Anisic acid	$C_8H_8O_3$	1152.15	M-19
m-Anisic acid	$C_8H_8O_3$	152.15	M-20
p-Anisic acid	$C_8H_8O_3$	152.15	A-37, M-21
Anisole	C_7H_8O	108.14	A-38, A-39
Anthracene	$C_{14}H_{10}$	178.23	A-18, A-27, A-40–A-63, F-40, N-49, P-65, P-66
9,10-Anthracenedione	$C_{14}H_8O_2$	208.21	A-64, A-65
Anthranilic acid	$C_7H_7NO_2$	137.14	A-25, A-26
Anthraquinone	$C_{14}H_8O_2$	208.21	A-64, A-65
9,10-Anthraquinone	C14H8O2	208.21	A-64, A-65
Aquafen	$C_{12}H_{14}Cl_2FNO_4S$	358.21	F-32
Arachidic acid	$C_{20}H_{40}O_2$	312.53	E-4
Arachidonic acid ethyl ester	$C_{22}H_{36}O_2$	332.52	A-66
Arachidyl alcohol	$C_{20}H_{42}O$	298.55	A-67, E-5
Aroclor 1254	N/A	326.50	A-68
Arsenic tris[bis(trifluoroethyl)-dithiocarbamate]	$C_{15}H_{12}AsF_{18}N_3S_6$	N/A	M-15
Artemisinin	$C_{15}H_{22}O_5$	282.33	A-69
Ascorbic acid	$C_6H_8O_6$	176.12	A-70
L-Ascorbic acid 6-hexadecanoate	$C_{22}H_{38}O_7$	414.53	A-71
Ascorbic acid 6-palmitate	$C_{22}H_{38}O_7$	414.53	A-71
Ascorbyl palmitate	$C_{22}H_{38}O_7$	414.53	A-71
Aspirin	$C_9H_8O_4$	180.16	A-72–A-74
Atratone	$C_9H_{17}N_5O$	211.26	A-75
Atrazine	$C_8H_{14}ClN_5$	215.68	A-76–A-78
Atropine	$C_{17}H_{23}NO_3$	289.37	A-79
9-Azaanthracene	$C_{13}H_9N$	179.22	A-14–A-17
9-Azafluorene	$C_{12}H_9N$	167.21	C-22, C-23
Azobenzene	$C_{12}H_{10}N_2$	182.22	A-80, A-81
Barium bis(hexafluoroacetylacetonate)	$C_{10}H_2BaF_{12}O_4$	551.43	B-1
Beclomethasone-17,21-dipropionate	$C_{28}H_{37}ClO_7$	521.04	B-2
Beef shank fat	N/A	N/A	B-3
Behenic acid	$C_{22}H_{44}O_2$	340.58	B-4–B-7
Behenyl behenate	$C_{44}H_{88}O_2$	649.17	B-8
Benzaldehyde	C_7H_6O	106.12	B-9, B-10
Benzeneacetic acid	$C_8H_8O_2$	136.15	P-79
Benzenecarbonitrile	C_7H_5N	103.12	B-28
1,2-Benzenediol	$C_6H_6O_2$	110.11	D-50, P-138, P-139
1,3-Benzenediol	$C_6H_6O_2$	110.11	D-50, R-3
1,4-Benzenediol	$C_6H_6O_2$	110.11	D-50, H-34–H-38

(*continued*)

Solute	Formula	MW	Data Table No.
Benzenemethanol	C_7H_8O	108.14	B-30, B-31
Benzenepropanol	$C_9H_{12}O$	136.19	P-81
3-(2-Benzimidazolyl)-7-(diethylamino)-coumarin	$C_{20}H_{19}N_3O_2$	333.38	C-150
Benzo[*def*]phenanthrene	$C_{16}H_{10}$	202.25	P-129–P-137
Benzo[*ghi*]perylene	$C_{22}H_{12}$	276.33	B-29
Benzo[*j,k*]fluorene	$C_{16}H_{10}$	202.25	F-33–F-35
Benzocaine	$C_9H_{11}NO_2$	165.19	B-11, B-12
Benzoic acid	$C_7H_6O_2$	122.12	B-13–B-26, D-8, N-24, P-67
Benzoic aldehyde	C_7H_6O	106.12	B-9
Benzoin	$C_{14}H_{12}O_2$	212.24	B-27
Benzonitrile	C_7H_5N	103.12	B-28
1,12-Benzoperylene	$C_{22}H_{12}$	276.33	B-29
1,2-Benzophenanthrene	$C_{18}H_{12}$	228.29	C-85–C-88
9,10-Benzophenanthrene	$C_{18}H_{12}$	228.29	T-92, T-93
2*H*−1-Benzopyran-2-one	$C_9H_6O_2$	146.14	C-200, C-201
2,3-Benzopyrrole	C_8H_7N	117.15	I-3
2,3-Benzoquinoline	$C_{13}H_9N$	179.22	A-14–A-17
1,4-Benzoquinone	$C_6H_4O_2$	108.09	Q-2, Q-3
p-Benzoquinone	$C_6H_4O_2$	108.09	Q-2, Q-3
2-Benzoylacetophenone	$C_{15}H_{12}O_2$	224.25	D-19
m-Benzoylhydratropic acid	$C_{16}H_{14}O_3$	254.28	K-1–K-3
2-(3-Benzoylphenyl)propionic acid	$C_{16}H_{14}O_3$	254.28	K-1–K-3
Benzyl alcohol	C_7H_8O	108.14	B-30, B-31
Benzyl benzene	$C_{13}H_{12}$	168.23	D-89
N-Benzyloxycarbonyl-DL-aspartic acid	$C_{12}H_{13}NO_6$	267.24	C-24
N-Benzyloxycarbonyl-DL-proline	$C_{13}H_{15}NO_4$	249.26	C-25
N-Benzyloxycarbonyl-DL-valine	$C_{13}H_{17}NO_4$	251.28	C-26
Benzylpenicillin	$C_{16}H_{18}N_2O_4S$	334.39	P-19
Betamethasone	$C_{22}H_{29}FO_5$	392.46	B-32
Betamethasone-17,21-dipropionate	$C_{28}H_{37}FO_7$	504.59	B-33
BHC	C_6Cl_6	284.80	H-8–H-10
γ-BHC	$C_6H_6Cl_6$	290.83	L-23
Bibenzyl	$C_{14}H_{14}$	182.26	B-34
Biphenyl	$C_{12}H_{10}$	154.21	B-35–B-38, N-25, N-26
1,1′-Biphenyl	$C_{12}H_{10}$	154.21	B-36, B-38
Bis(η^5-cyclopentadienyl)iron	$C_{10}H_{10}Fe$	186.03	F-2–F-5
Bis(diisopropyldithiocarbamato)lead	$C_{14}H_{28}N_2PbS_4$	559.83	L-6
Bis(diisopropyldithiocarbamato)-palladium	$C_{14}H_{28}N_2PdS_4$	459.07	P-4
Bis(2,6-dimethylheptane-3,5-dionato)-copper	$C_{18}H_{30}CuO_4$	373.98	C-178
Bis(5,5-dimethylhexane-2,4-dionato)copper	$C_{16}H_{26}CuO_4$	345.93	C-179
Bis(2-ethylhexyl) phosphate	$C_{16}H_{35}O_4P$	322.42	D-41
Bis(2-ethylhexyl) phthalate	$C_{24}H_{38}O_4$	390.56	D-84
Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)barium	$C_{10}H_2BaF_{12}O_4$	551.43	B-1

(*continued*)

Solute	Formula	MW	Data Table No.
Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)cobalt	$C_{10}H_2CoF_{12}O_4$	473.03	C-167
Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper hydrate	$C_{10}H_2CuF_{12}O_4 \cdot xH_2O$	495.67	C-181, C-182
Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper	$C_{10}H_2CuF_{12}O_4$	477.65	C-180
Bis(8-methylnonyl) hydrogen phosphate	$C_{20}H_{43}O_4P$	378.53	D-57
Bis(methylthioglycolato)palladium	$C_6H_{10}O_4PdS_2$	316.69	P-2
Bis(2,4-pentanedionato)cobalt	$C_{10}H_{14}CoO_4$	257.15	C-166
Bis(2,4-pentanedionato)copper	$C_{10}H_{14}CuO_4$	261.76	C-173–C-176
Bis(2,4-pentanedionato)copper dihydrate	$C_{10}H_{14}CoO_4 \cdot 2H_2O$	293.18	C-177
Bis(2,4-pentanedionato)lithium	$C_5H_7LiO_2$	106.05	L-27
Bis(2,4-pentanedionato)manganese dihydrate	$C_{10}H_{14}MnO_4 \cdot 2H_2O$	289.19	M-2
Bis(2,4-pentanedionato)palladium	$C_{10}H_{14}O_4Pd$	304.64	P-1
Bis(2,4-pentanedionato)platinum	$C_{10}H_{14}O_4Pt$	393.29	P-90
Bis(2,4-pentanedionato)zinc	$C_{10}H_{14}O_4Zn$	263.60	Z-1
Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)palladium	$C_{22}H_{38}O_4Pd$	472.94	P-3
Bis(2,2,6,6-tetramethylheptane-3,5-dionato)copper	$C_{22}H_{38}CuO_4$	430.09	C-183, C-184
Bis(1,1,1-trifluoropentane-2,4-dionato)-copper	$C_{10}H_8CuF_6O_4$	369.71	C-186
Bis[4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedionato]copper	$C_{16}H_8CuF_6O_4S_2$	505.89	C-185
Bis(4,4,4-trifluoro-1-phenylbutane-1,3-dionato)copper	$C_{20}H_{12}CuF_6O_4$	493.85	C-187
Bis(2,2,7-trimethyloctane-3,5-dionato)copper	$C_{22}H_{38}CuO_4$	430.09	C-188
1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane	$C_{14}H_9Cl_5$	354.49	B-56
1,4-Bis(allyloxy)anthraquinone	$C_{20}H_{16}O_4$	320.34	B-53, B-54
1,4-Bis(butylamino)anthraquinone	$C_{22}H_{26}N_2O_2$	350.46	B-40, B-41, C-161
1,4-Bis(dodecylamino)anthraquinone	$C_{38}H_{58}N_2O_2$	574.88	B-42
1,4-Bis(ethylamino)anthraquinone	$C_{18}H_{18}N_2O_2$	294.35	B-43
1,4-Bis(hexadecylamino)anthraquinone	$C_{46}H_{74}N_2O_2$	687.09	B-44
1,4-Bis(isopropylamino)anthraquinone	$C_{20}H_{22}N_2O_2$	322.41	B-45, C-107
1,4-Bis(methylamino)anthraquinone	$C_{16}H_{14}N_2O_2$	266.30	B-46, C-92, C-93
1,4-Bis(octadecylamino)anthraquinone	$C_{50}H_{82}N_2O_2$	743.21	B-47
1,4-Bis(octylamino)anthraquinone	$C_{30}H_{42}N_2O_2$	462.67	B-48–B-51
1,4-Bis(pentylamino)anthraquinone	$C_{24}H_{30}N_2O_2$	378.51	B-52
1,4-Bis(prop-2′-enyloxy)anthraquinone	$C_{20}H_{16}O_4$	320.34	B-53
1,4-Bis(propylamino)anthraquinone	$C_{20}H_{22}N_2O_2$	322.41	B-55
1,8-Bis(prop-2′-enyloxy)anthraquinone	$C_{20}H_{16}O_4$	320.34	B-54
2,4-Bis(isopropylamino)-6-methylthio-1,3,5-triazine	$C_{10}H_{19}N_5S$	241.36	P-116, P-117
N-[5-[Bis[2-(acetyloxy)ethyl]amino]-2-[(2-bromo-4,6-initrophenyl) azo]-4-ethoxyphenyl]acetamide	$C_{24}H_{27}BrN_6O_{10}$	639.42	C-100–C-102

(*continued*)

Solute	Formula	MW	Data Table No.
N-[5-[Bis[2-(acetyloxy)ethyl]amino]-2-[(2-bromo-4,6-initrophenyl) azo]-4-methoxyphenyl]acetamide	$C_{23}H_{25}BrN_6O_{10}$	625.38	C-102–C-103
N-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2,4-initrophenyl)azo] phenyl]acetamide	$C_{22}H_{24}N_6O_9$	516.46	C-144
N-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-chloro-4-nitrophenyl)azo] phenyl]propanamide	$C_{23}H_{26}ClN_5O_7$	519.93	C-140
N,*N*′-Bis(4,6-di-*tert*-butylsalicylidene)ethylenediamine	$C_{32}H_{48}N_2O_2$	492.74	B-81
N,*N*′-Bis(salicylidene)-1,2-ethanediamine	$C_{16}H_{16}N_2O_2$	268.31	S-1
Bisacodyl	$C_{22}H_{19}NO_4$	361.39	B-39
Bismuth tris(diehtyldithiocarbamate)	$C_{15}H_{30}BiN_3S_6$	N/A	M-12, M-13
Bismuth tris[bis(trifluoroethyl)-dithiocarbamate]	$C_{15}H_{12}F_{18}BiN_3S_6$	N/A	M-12, M-13
Bisphenol A-type epoxy resin	N/A	N/A	P-102
Bitumen	N/A	N/A	B-57, B-58
Bitumen Cut 1	N/A	201.00	B-59
Bitumen Cut 2	N/A	304.00	B-60
Bitumen Cut 3	N/A	572.00	B-61
Blackcurrant seed oil	N/A	N/A	B-62
Black pepper essential oil	N/A	N/A	B-63
rac-Boc-Piperazine	$C_{14}H_{27}N_3O_3$	285.39	B-65
(*S*)-Boc-Piperazine	$C_{14}H_{27}N_3O_3$	285.39	B-64
2-Bornanone	$C_{10}H_{16}O$	152.23	C-13
Brassylic Acid	$C_{13}H_{24}O_4$	244.33	B-66
Bromobenzene	C_6H_5Br	157.01	B-67
4-(6-Bromo-2,4-dinitrophenylazo)-3-acetylamino-6-methoxy-*N*-bis(acetoxyethyl)aniline	$C_{23}H_{25}BrN_6O_{10}$	625.38	C-103, C-104
N-[2-[(2-Bromo-4,6-dinitrophenyl)azo]-5-(diethylamino)-4-methoxy phenyl]acetamide	$C_{19}H_{21}BrN_6O_6$	509.31	C-110
1-Butanol	$C_4H_{10}O$	74.12	B-69
n-Butanol	$C_4H_{10}O$	74.12	B-68–B-70
(*S*)-*tert*-Butyl 3-(tert-butylcarbamoyl)-piperazine-1-carboxylate	$C_{14}H_{27}N_3O_3$	285.39	B-64
Butyl acetate	$C_6H_{12}O_2$	116.16	B-71, B-72
Butyl alcohol	$C_4H_{10}O$	74.12	B-68, B-69
Butyl 2,5-dichlorobenzoate	$C_{11}H_{12}Cl_2O_2$	247.12	B-76
1-Butyl-3-methylimidazolium hexafluorophosphate	$C_8H_{15}N_2 \cdot F_6P$	284.18	B-77, B-78
1-Butyl-3-methylimidazolium tetrafluoroborate	$C_8H_{15}N_2 \cdot BF_4$	226.02	B-79
2-*tert*-Butylphenol	$C_{10}H_{14}O$	150.22	B-80
tert-Butyl-salen	$C_{32}H_{48}N_2O_2$	492.74	B-81
p-*tert*-Butylcalix[4]arene	$C_{44}H_{56}O_4$	648.94	B-73
p-*tert*-Butylcalix[6]arene	$C_{66}H_{84}O_6$	973.40	B-74

(*continued*)

Solute	Formula	MW	Data Table No.
p-tert-Butylcalix[8]arene	$C_{88}H_{112}O_8$	1297.87	B-75
C. I. Disperse Black 9	$C_{16}H_{20}N_4O_2$	300.36	C-89
C. I. Disperse Blue 3	$C_{17}H_{16}N_2O_3$	296.32	C-90, C-91
C. I. Disperse Blue 14	$C_{16}H_{14}N_2O_2$	266.30	B-46, C-92, C-93
C. I. Disperse Blue 27	$C_{22}H_{16}N_2O_7$	420.37	C-94
C. I. Disperse Blue 60	$C_{20}H_{17}N_3O_5$	379.37	C-95–C-97
C. I. Disperse Blue 60S	N/A	379.00	C-98
C. I. Disperse Blue 77	$C_{20}H_{12}N_2O_6$	376.32	C-99
C. I. Disperse Blue 79	$C_{24}H_{27}BrN_6O_{10}$	639.42	C-100–C-102
C. I. Disperse Blue 79:1	$C_{23}H_{25}BrN_6O_{10}$	625.38	C-103–C-104
C. I. Disperse Blue 99	$C_{20}H_{17}N_3O_5$	379.37	C-95–C-97
C. I. Disperse Blue 102	$C_{15}H_{19}N_5O_4S$	365.41	C-105
C. I. Disperse Blue 118	$C_{20}H_{14}N_2O_4$	346.34	C-106
C. I. Disperse Blue 134	$C_{20}H_{22}N_2O_2$	322.40	B-45, C-107, C-108
C. I. Disperse Blue 165:1	$C_{19}H_{19}N_7O_5$	425.40	C-109
C. I. Disperse Blue 291	$C_{19}H_{21}BrN_6O_6$	509.31	C-110
C. I. Disperse Blue 354	$C_{31}H_{37}N_3O_2S$	515.71	C-111
C. I. Disperse Brown 22	N/A	399.00	C-112
C. I. Disperse Orange 1	N/A	N/A	C-113
C. I. Disperse Orange 3	$C_{12}H_{10}N_4O_2$	242.24	C-113–C-115
C. I. Disperse Orange 11	$C_{15}H_{11}NO_2$	237.26	A-32, C-116, C-117
C. I. Disperse Orange 13	$C_{22}H_{16}N_4O$	352.39	C-118
C. I. Disperse Orange 25	$C_{17}H_{17}N_5O_2$	323.35	C-113, C-119
C. I. Disperse Orange 30	$C_{19}H_{17}Cl_2N_5O_4$	450.27	C-113, C-120, C-121
C. I. Disperse Orange 33	N/A	N/A	C-122
C. I. Disperse Red 1	$C_{16}H_{18}N_4O_3$	314.35	C-123–C-125
C. I. Disperse Red 9	$C_{15}H_{11}NO_2$	237.25	C-126
C. I. Disperse Red 11	$C_{15}H_{12}N_2O_3$	268.27	C-127
C. I. Disperse Red 13	$C_{16}H_{17}ClN_4O_3$	348.79	C-128
C. I. Disperse Red 30	$C_{16}H_{17}ClN_4O_4$	364.78	C-129
C. I. Disperse Red 60	$C_{20}H_{13}NO_4$	331.33	C-113, C-130–C-135
C. I. Disperse Red 82	$C_{21}H_{21}N_5O_6$	439.43	C-136
C. I. Disperse Red 137	N/A	430.00	C-137
C. I. Disperse Red 152	$C_{19}H_{17}Cl_2N_5S$	418.34	C-138
C. I. Disperse Red 153	$C_{18}H_{15}N_5SCl_2$	404.32	C-139
C. I. Disperse Red 167	$C_{23}H_{26}ClN_5O_7$	519.93	C-140
C. I. Disperse Red 324	N/A	426.00	C-141, C-142
C. I. Disperse Red W-4BS	N/A	469.00	C-143
C. I. Disperse Violet 91	$C_{22}H_{24}N_6O_9$	516.46	C-144
C. I. Disperse Yellow 7	$C_{19}H_{16}N_4O$	316.36	C-145, C-146
C. I. Disperse Yellow 16	$C_{16}H_{14}N_4O$	278.31	C-108, C-147
C. I. Disperse Yellow 42	$C_{18}H_{15}N_3O_4S$	369.39	C-148
C. I. Disperse Yellow 54	$C_{18}H_{11}NO_3$	289.28	C-149
C. I. Disperse Yellow 82	$C_{20}H_{19}N_3O_2$	333.38	C-150
C. I. Disperse Yellow 86	$C_{16}H_{19}N_3O_5S$	365.40	C-151
C. I. Disperse Yellow 108	N/A	429.00	C-152
C. I. Disperse Yellow 119	$C_{15}H_{13}O_4N_5$	327.30	C-153
C. I. Food Orange 5	$C_{40}H_{56}$	536.87	C-29–C-40
C. I. Modified Yellow 119	$C_{15}H_{12}ClN_5O_4$	361.74	C-154
C. I. Mordant Brown	$C_{10}H_7NO_2$	173.17	C-155

(*continued*)

Solute	Formula	MW	Data Table No.
C. I. Mordant Red 11	$C_{14}H_8O_4$	240.22	C-156
C. I. Mordant Yellow 12	$C_{13}H_{10}N_3NaO_3$	279.23	C-157
C. I. Pigment Red 1	$C_{16}H_{11}N_3O_3$	293.28	P-18
C. I. Solvent Blue 14	$C_{24}H_{30}N_2O_2$	378.51	B-52
C. I. Solvent Blue 35	$C_{22}H_{26}N_2O_2$	350.46	B-40, B-41, C-161
C. I. Solvent Blue 105	$C_{18}H_{18}N_2O_2$	294.35	B-43
C. I. Solvent Brown 1	$C_{16}H_{14}N_4$	262.31	C-162
C. I. Solvent Orange 86	$C_{14}H_8O_4$	240.21	D-44, D-45
C. I. Solvent Yellow 7	$C_{12}H_{10}N_2O$	198.22	H-48, H-49
C. I. Solvent Yellow 114	$C_{18}H_{11}NO_3$	289.28	C-149
Cafesterol	$C_{20}H_{28}O_3$	316.43	C-1
Cafestol	$C_{20}H_{28}O_3$	316.43	C-1
Caffeic acid	$C_9H_8O_4$	180.16	C-2
Caffeine	$C_8H_{10}N_4O_2$	194.19	C-3–C-11
Calciferol	$C_{28}H_{44}O$	396.65	V-7, V-8
Calix[4]arene	$C_{28}H_{24}O_4$	424.49	C-12
Calix[4]arene-25,26,27,28-tetrol	$C_{28}H_{24}O_4$	424.49	C-12
Camphor	$C_{10}H_{16}O$	152.23	C-13
Canola oil	N/A	N/A	C-14
Capric alcohol	$C_{10}H_{22}O$	158.28	D-9
Caproic acid	$C_6H_{12}O_2$	116.16	H-26, H-27
6-Caprolactam	$C_{10}H_{19}NO$	169.27	C-15
Capsaicin	$C_{18}H_{27}NO_3$	305.41	C-16–C-18
Carbamazepine	$C_{15}H_{12}N_2O$	236.27	C-19, C-20
Carbamazepine Polymorph I	$C_{15}H_{12}N_2O$	236.27	C-21
Carbamazepine Polymorph III	$C_{15}H_{12}N_2O$	236.27	C-21
Carbazole	$C_{12}H_9N$	167.21	A-61, A-63, C-22, C-23, P-68
N-Carbobenzoxy aspartic acid	$C_{12}H_{13}NO_6$	267.24	C-24
N-Carbobenzoxyproline	$C_{13}H_{15}NO_4$	249.26	C-25
N-Carbobenzoxyvaline	$C_{13}H_{17}NO_4$	251.28	C-26
4-Carbomethoxy phenol	$C_8H_8O_3$	152.15	M-53
Carbonyl(η^5-cyclopentadienyl)-(triphenylphosphine)cobalt	$C_{24}H_{20}CoOP$	413.31	C-27
Carbonyl-π-cyclopentadienyl-(triphenylphosphine)cobalt	$C_{24}H_{20}CoOP$	413.31	C-27
Carbonyl-π-cyclopentadienyl-(tris(4-trimethylsilylphenyl) phosphine)cobalt	$C_{33}H_{45}CoOPSi_3$	630.87	C-28
Carbonyldiiodo(η^5-Cyclopentadienyl)cobalt	$C_6H_5CoI_2O$	405.85	C-213
Carbonyldiiodo(η^5-Trimethylsilyl cyclopentadienyl)cobalt	$C_9H_{13}CoI_2OSi$	477.82	C-214
2-Carboxyaniline	$C_7H_7NO_2$	137.14	A-25, A-26
2-Carboxypyrazine	$C_5H_4N_2O_2$	124.10	P-128
3-Carboxypyridine	$C_6H_5NO_2$	123.11	N-67, N-68, N-69, N-70, N-71
β-Carotene	$C_{40}H_{56}$	536.87	C-29–C-40
β,β-Carotene	$C_{40}H_{56}$	536.87	C-29–C-40
Carvacrol	$C_{10}H_{14}O$	150.22	C-41

(*continued*)

Solute	Formula	MW	Data Table No.
L-Carvone	$C_{10}H_{14}O$	150.22	C-42
(*R*)-(−)-Carvone	$C_{10}H_{14}O$	150.22	C-42
Castor oil	N/A	N/A	C-43
Catechaldehyde	$C_7H_6O_3$	138.12	P-126
Catechin	$C_{15}H_{14}O_6$	290.27	C-44
(+)-Catechin	$C_{15}H_{14}O_6$	290.27	C-44
Catechol	$C_6H_6O_2$	110.11	P-138, P-139
$Ce(thd)_4$	$C_{44}H_{76}CeO_8$	873.20	C-45
$Ce(tod)_4$	$C_{44}H_{76}CeO_8$	873.20	C-46
Cerium tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionate)	$C_{44}H_{76}CeO_8$	873.20	C-45
Cerium tetrakis(2,2,7-trimethyl-3,5-octanedionate)	$C_{44}H_{76}CeO_8$	873.20	C-46
Cetyl alcohol	$C_{16}H_{34}O$	242.44	C-47–C-51
Cetyl behenate	$C_{38}H_{76}O_2$	565.01	P-14
Chloramphenicol	$C_{11}H_{12}Cl_2N_2O_5$	323.13	C-52
Chlorobenzene	C_6H_5Cl	112.56	C-53
Chloro(η^5-cyclopentadienyl)-dioxomolybdenum	$C_5H_5ClMoO_2$	228.48	C-213
Chloro(η^5-Trimethylsilylcyclo-pentadienyl)dioxomolybdenum	$C_8H_{13}Cl_2MoO_2Si$	336.91	C-214
2-Chlorobiphenyl	$C_{12}H_9Cl$	188.66	C-54–C-56
4-Chlorobiphenyl	$C_{12}H_9Cl$	188.66	C-57–C-59
4-Chlorophenol	C_6H_5ClO	128.56	C-61
p-Chlorophenol	C_6H_5ClO	128.56	C-61
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	$C_7H_{12}ClN_5$	201.66	S-4
2-Chloro-4,6-bis(isopropylamino)-1,3,5-triazine	$C_9H_{16}ClN_5$	229.71	P-121
2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	$C_8H_{14}ClN_5$	215.68	A-76, A-77, A-78
2-Chloro-1-methylbenzene	C_7H_7Cl	126.58	C-60
2-Chloro-1,3-pyrimidine	$C_4H_3ClN_2$	114.53	C-63
5-(4-Chloro-2-nitrophenylazo)-3-cyano-1-ethyl-6-hydroxy-4-methyl-1H-pyridin-2-one	$C_{15}H_{12}ClN_5O_4$	361.74	C-154
6-Chloro-1,2α-methylene-6-dehydro-17α-hydroxyprogesterone acetate	$C_{24}H_{29}ClO_4$	416.94	C-216
7-Chloro-1-methyl-5-phenyl-3*H*-1,4-benzodiazepin-2(1*H*)-one	$C_{16}H_{13}ClN_2O$	284.74	D-13
7-Chloro-2′,4,6-trimethoxy-6′-methylspiro[benzofuran-2(3*H*),1′-[2]cyclohexene]-3,4′-dione	$C_{17}H_{17}ClO_6$	352.77	G-10
9α-Chloro-16β-methylprednisolone 17,21-dipropionate	$C_{28}H_{37}ClO_7$	521.04	B-2
2,2′-[[4-[(2-Chloro-4-nitrophenyl)-azo]phenyl]imino]bisethanol	$C_{16}H_{17}ClN_4O_4$	364.78	C-129
1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	$C_{16}H_{22}ClN_3O$	307.82	T-3
Chlorophyllian pigments	N/A	N/A	C-62

(*continued*)

Solute	Formula	MW	Data Table No.
2-Chloropyrimidine	$C_4H_3ClN_2$	114.53	C-63
Chlorothalonil	$C_8Cl_4N_2$	265.91	T-15
Cholecalciferol	$C_{27}H_{44}O$	384.64	V-9, V-10
Cholest-5-en-3β-ol	$C_{27}H_{46}O$	386.65	C-64–C-74
Cholesterol	$C_{27}H_{46}O$	386.65	C-64–C-74, C-79,P-113
Cholesterol acetate	$C_{29}H_{48}O_2$	428.69	C-75
Cholesterol benzoate	$C_{34}H_{50}O_2$	490.76	C-76, C-77
Cholesterol butanoate	$C_{31}H_{52}O_2$	456.74	C-78
Cholesterol butyrate	$C_{31}H_{52}O_2$	456.74	C-78
Cholesteryl acetate	$C_{29}H_{48}O_2$	428.69	C-75
Cholesteryl benzoate	$C_{34}H_{50}O_2$	490.76	C-76, C-77
Cholesteryl butyrate	$C_{31}H_{52}O_2$	456.74	C-78
Chromium *cis*-tris(1,1,1-trifluoro-acetylacetonate)	$C_{15}H_{12}CrF_9O_6$	511.24	C-83
Chromium *trans*-tris(1,1,1-trifluoroacetylacetonate)	$C_{15}H_{12}CrF_9O_6$	511.24	C-84
Chromium tris(acetylacetonate)	$C_{15}H_{21}CrO_6$	349.32	C-80, M-13
Chromium tris(3-bromoacetylacetonate)	$C_{15}H_{18}Br_3CrO_6$	586.01	C-81
Chromium tris(hexafluoro-acetylacetonate)	$C_{15}H_3CrF_{18}O_6$	N/A	M-13
Chromium tris(2,2,6,6-tetramethylheptane-3,5-dionate)	$C_{33}H_{57}CrO_6$	601.81	C-82
Chrysene	$C_{18}H_{12}$	228.29	C-85–C-88
Cineole	$C_{10}H_{18}O$	154.25	C-158, C-159
1,8-Cineole	$C_{10}H_{18}O$	154.25	C-158, C-159
trans-Cinnamic acid	$C_9H_8O_2$	148.16	C-160
Citral	$C_{10}H_{16}O$	152.23	C-163, C-164, L-19
Clove buds extract	N/A	N/A	C-165
$Co(acac)_2$	$C_{10}H_{14}CoO_4$	257.15	C-166
$Co(acac)_3$	$C_{15}H_{21}CoO_6$	356.26	C-168
$Co(hfa)_2$	$C_{10}H_2CoF_{12}O_4$	473.03	C-167
Cobalt bis(acetylacetonate)	$C_{10}H_{14}CoO_4$	257.15	C-166
Cobalt bis(hexafluoroacetylacetonate)	$C_{10}H_2CoF_{12}O_4$	473.03	C-167
Cobalt tris(acetylacetonate)	$C_{15}H_{21}CoO_6$	356.26	C-168
Cobalt tris(diethyldithiocarbamate)	$C_{15}H_{30}CoN_3S_6$	N/A	M-12, M-13
Cobalt tris[bis(trifluoroethyl)-dithiocarbamate]	$C_{15}H_{12}CoF_{18}N_3S_6$	N/A	M-12, M-13, M-15
Cocoa Butter	N/A	N/A	C-169, C-170
Codeine	$C_{18}H_{21}NO_3$	299.36	C-171
Coenzyme Q10	$C_{59}H_{90}O_4$	863.34	C-172
Copper bis(acetylacetonate)	$C_{10}H_{14}CuO_4$	261.76	C-173–C-176
Copper bis(acetylacetonate) dihydrate	$C_{10}H_{14}CoO_4 \cdot 2H_2O$	293.18	C-177
Copper bis[bis(trifluoroethyl)-dithiocarbamate]	$C_{10}H_8CuF_{12}N_2S_4$	575.95	C-189, M-12, M-13, M-15
Copper bis(dibutyldithiocarbamate)	$C_{18}H_{36}CuN_2S_4$	472.28	C-189
Copper bis(diethyldithiocarbamate)	$C_{10}H_{20}CuN_2S_4$	360.07	C-189, M-12, M-13
Copper bis(dihexyldithiocarbamate)	$C_{26}H_{52}CuN_2S_4$	584.50	C-189
Copper bis(dipentyldithiocarbamate)	$C_{22}H_{44}CuN_2S_4$	528.39	C-189
Copper bis(dipropyldithiocarbamate)	$C_{14}H_{28}CuN_2S_4$	416.18	C-189
Copper bis(hexafluoroacetylacetonate)	$C_{10}H_2CoF_{12}O_4$	N/A	M-13

(*continued*)

Solute	Formula	MW	Data Table No.
Copper bis(thenoyltrifluoroacetonate)	$C_{16}H_8CuF_6O_4S_2$	505.89	C-185
Copper bis(2,6-dimethylheptane-3,5-dionate)	$C_{18}H_{30}CuO_4$	373.98	C-178
Copper bis(5,5-dimethylhexane-2,4-dionate)	$C_{16}H_{26}CuO_4$	345.93	C-179
Copper bis(1,1,1,6,6,6-hexafluoro-acetylacetonate)	$C_{10}H_2CuF_{12}O_4$	477.65	C-180
Copper bis(1,1,1,6,6,6-hexafluoro-acetylacetonate) hydrate	$C_{10}H_2CuF_{12}O_4 \cdot H_2O$	495.67	C-181, C-182
Copper bis(2,2,6,6-tetramethylheptane-3,5-dionate)	$C_{22}H_{38}CuO_4$	430.09	C-183, C-184
Copper bis(1,1,1-trifluoroacetyl-acetonate)	$C_{10}H_8CuF_6O_4$	369.71	C-186
Copper bis(1,1,1-trifluoro-4-phenylbutane-2,4-dionate)	$C_{20}H_{12}CuF_6O_4$	493.85	C-187
Copper bis(2,2,7-trimethyloctane-3,5-dionate)	$C_{22}H_{38}CuO_4$	430.09	C-188
Copper pyrrolidinedithiocarbamate	$C_{10}H_{16}CuN_2S_4$	356.04	C-189
Copper(II) hydrogen arsenate	$AsHCuO_4$	203.47	C-190
Cortisol	$C_{21}H_{30}O_5$	362.46	H-33
Cortisone 21-acetate	$C_{23}H_{30}O_6$	402.48	C-191
Cortisone acetate	$C_{23}H_{30}O_6$	402.48	C-191
2-Coumaric acid	$C_9H_8O_3$	164.16	C-192, C-193
3-Coumaric acid	$C_9H_8O_3$	164.16	C-194, C-195
4-Coumaric acid	$C_9H_8O_3$	164.16	C-196–C-199
o-Coumaric acid	$C_9H_8O_3$	164.16	C-192, C-193
m-Coumaric acid	$C_9H_8O_3$	164.16	C-194, C-195
p-Coumaric acid	$C_9H_8O_3$	164.16	C-196–C-199
Coumarin	$C_9H_6O_2$	146.14	C-200, C-201
$Cr(acac)_3$	$C_{15}H_{21}CrO_6$	349.32	C-80
$Cr(acac\text{-}Br)_3$	$C_{15}H_{18}Br_3CrO_6$	586.01	C-81
cis-$Cr(tfa)_3$	$C_{15}H_{12}CrF_9O_6$	511.24	C-83
trans-$Cr(tfa)_3$	$C_{15}H_{12}CrF_9O_6$	511.24	C-84
$Cr(thd)_3$	$C_{33}H_{57}CrO_6$	601.81	C-82
4-Cresol	C_7H_8O	108.14	C-202
p-Cresol	C_7H_8O	108.14	C-202
$Cu(acac)_2$	$C_{10}H_{14}CuO_4$	261.76	C-173–C-176
$Cu(dibm)_2$	$C_{18}H_{30}CuO_4$	373.98	C-178
$Cu(dmhd)_2$	$C_{16}H_{26}CuO_4$	345.93	C-179
$Cu(hfa)_2$	$C_{10}H_2CuF_{12}O_4$	477.65	C-180
$Cu(hfa)_2 \cdot H_2O$	$C_{10}H_2CuF_{12}O_4 \cdot H_2O$	495.67	C-181, C-182
$Cu(tfa)_2$	$C_{10}H_8CuF_6O_4$	369.71	C-186
$Cu(tfbzm)_2$	$C_{20}H_{12}CuF_6O_4$	493.85	C-187
$Cu(thd)_2$	$C_{22}H_{38}CuO_4$	430.09	C-183, C-184
$Cu(tod)_2$	$C_{22}H_{38}CuO_4$	430.09	C-188
Cupuacu seed fat	N/A	N/A	C-203
Cyanobenzene	C_7H_5N	103.12	B-28
N-[2-[(2-Cyano-4,6-dinitrophenyl)azo]-5-(diethylamino)phenyl] acetamide	$C_{19}H_{19}N_7O_5$	425.40	C-109

(*continued*)

Solute	Formula	MW	Data Table No.
4-[*N*-(2-Cyanoethyl)-N-ethylamino]-4′-nitroazobenzene	$C_{17}H_{17}N_5O_2$	323.35	C-113, C-119
2-Cyanonaphthalene	$C_{11}H_7N$	153.18	C-204
1-Cyanooctadecane	$C_{19}H_{37}N$	279.50	N-87
β-Cyclodextrin heneicosaacetate	$C_{84}H_{112}O_{56}$	2017.75	C-206
α-Cyclodextrin octadecaacetate	$C_{72}H_{96}O_{48}$	1729.50	C-205
γ-Cyclodextrin tetracosaacetate	$C_{96}H_{128}O_{64}$	2306.03	C-207
1,5,9-Cyclododecatriene	$C_{12}H_{18}$	162.27	C-209
Cyclododecene	$C_{12}H_{22}$	166.30	C-208
Cyclohexanol	$C_6H_{10}O$	98.14	C-210
Cyclohexanone	$C_6H_{12}O$	100.16	C-211
Carbonyl(η^5-cyclopentadienyl) [tris(4-trimethylsilylphenyl)phosphine] cobalt	$C_{33}H_{45}CoOPSi_3$	630.87	C-28
Cyclopentadienylmanganese tricarbonyl	$C_8H_5MnO_3$	204.06	C-212
Cyclotrimethylenetrinitramine	$C_3H_6N_6O_6$	222.12	C-215
Cyproterone acetate	$C_{24}H_{29}ClO_4$	416.94	C-216, M-5
2,4-D	$C_8H_6Cl_2O_3$	221.04	D-32–D-35, P-43
Danthron	$C_{14}H_8O_4$	240.21	D-46–D-48
DDT	$C_{14}H_9Cl_5$	354.49	B-56, D-1
4,4′-DDT	$C_{14}H_9Cl_5$	354.49	B-56
Decahydro-3,5,1,7-[1,2,3,4]butanetetraylnaphthalene	$C_{14}H_{20}$	188.31	D-12
Decahydronaphthalene	$C_{10}H_{18}$	138.25	D-2
Decalin	$C_{10}H_{18}$	138.25	D-2
(all-*E*)−2-(3,7,11,15,19,23, 27,31, 35,39-Decamethyl-2,6,10,14,18,22, 26,30, 34,38-tetracontadecaenyl)-5,6-dimethoxy-3-methyl-*p*-benzo quinone	$C_{59}H_{90}O_4$	863.34	C-172
Decamethylene glycol	$C_{10}H_{22}O_2$	174.28	D-7
Decane	$C_{10}H_{22}$	142.28	D-3–D-6
1,10-Decanediol	$C_{10}H_{22}O_2$	174.28	D-7, D-8
1-Decanol	$C_{10}H_{22}O$	158.28	D-9
Decyl 2,5-dichlorobenzoate	$C_{17}H_{24}Cl_2O_2$	331.28	D-10
Decyl alcohol	$C_{10}H_{22}O$	158.28	D-9
9,10-Deepithio-9,10-didehydroacanthifolicin	$C_{44}H_{68}O_{13}$	805.00	O-20
1,2-Dehydrocortisone	$C_{21}H_{26}O_5$	358.43	P-110
1,2-Dehydrohydrocortisone	$C_{21}H_{28}O_5$	360.44	P-109
3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-1,8-dihydroxy-6-methyl anthaquinone	$C_{21}H_{20}O_9$	416.38	F-44
Dextrose	$C_6H_{12}O_6$	180.16	G-4, G-5
[3,5-Di(trifluoromethyl)phenyl]dibenzo-16-crown-5-oxyacetic acid	$C_{29}H_{26}F_6O_8$	616.51	L-2
Diacetoxyscirpenol	$C_{19}H_{26}O_7$	366.41	D-11
Diadamantane	$C_{14}H_{20}$	188.31	D-12
Diamantane	$C_{14}H_{20}$	188.31	D-12
1,4-Diamino-2-methoxyanthraquinone	$C_{15}H_{12}N_2O_3$	268.27	C-127
2,6-Diamino-3-phenylazopyridine	$C_{11}H_{11}N_5$	213.24	P-74

(*continued*)

Solute	Formula	MW	Data Table No.
1,4-Diaminoanthraquinone, *N*,*N*′-mixed 2-hydroxyethyl and methyl derivatives	$C_{17}H_{16}N_2O_3$	296.32	C-90, C-91
1,4-Diamino-*N*-(3-methoxypropyl)-anthraquinone-2,3-dicarboximide	$C_{20}H_{17}N_3O_5$	379.37	C-95–C-97
9,10-Diazaanthracene	$C_{12}H_8N_2$	180.21	P-73
4,5-Diazaphenanthrene	$C_{12}H_8N_2$	180.21	P-72
Diazepam	$C_{16}H_{13}ClN_2O$	284.74	D-13
5*H*-Dibenz[*b*,*f*]azepine-5-carboxamide	$C_{15}H_{12}N_2O$	236.27	C-19–C-21
Dibenz[*de*,*kl*]anthracene	$C_{20}H_{12}$	252.31	P-40–P-42
1,2,3,4-Dibenznaphthalene	$C_{18}H_{12}$	228.29	T-92, T-93
Dibenzo-16-crown-5-oxyacetic acid	$C_{21}H_{24}O_8$	404.42	L-2
Dibenzo-24-Crown-8	$C_{24}H_{32}O_8$	448.51	D-14
Dibenzo-27-Crown-9	$C_{26}H_{36}O_9$	492.56	D-15
Dibenzo-30-Crown-10	$C_{28}H_{40}O_{10}$	536.61	D-16
Dibenzofuran	$C_{12}H_8O$	168.19	D-17
Dibenzopyrazine	$C_{12}H_8N_2$	180.21	P-73
Dibenzopyrrole	$C_{12}H_9N$	167.21	C-22, C-23
Dibenzothiophene	$C_{12}H_8S$	184.26	D-18
Dibenzoylmethane	$C_{15}H_{12}O_2$	224.25	D-19
Dicaprylyl ether	$C_{16}H_{34}O$	242.44	D-83
3,4-Dichloraniline	$C_6H_5Cl_2N$	162.02	P-43
2,2′-Dichloro-1,1′-biphenyl	$C_{12}H_8Cl_2$	223.10	D-22–D-24
4,4′-Dichloro-1,1′-biphenyl	$C_{12}H_8Cl_2$	223.10	D-25–D-28
2,4-Dichloro-1-naphthalenol	$C_{10}H_6Cl_2O$	213.06	D-30
2,4-Dichloro-1-naphthol	$C_{10}H_6Cl_2O$	213.06	D-30
3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]phenyl]-ethylamino] propanenitrile	$C_{18}H_{15}N_5SCl_2$	404.32	C-139
3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]-3-methylphenyl]-ethylamino]propanenitrile	$C_{19}H_{17}Cl_2N_5S$	418.34	C-138
4-[(2,6-Dichloro-4-nitrophenyl)azo]-*N*-(cyanoethyl)-*N*-(acetoxyethyl) aniline	$C_{19}H_{17}Cl_2N_5O_4$	450.27	C-113, C-120, C-121
3,4-Dichlorobenzenamine	$C_6H_5Cl_2N$	162.02	P-43
1,2-Dichlorobenzene	$C_6H_4Cl_2$	147.00	D-21
2,5-Dichlorobenzoic acid 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	$C_{15}H_7Cl_2F_{13}O_2$	537.10	T-61
2,5-Dichlorobenzoic acid butyl ester	$C_{11}H_{12}Cl_2O_2$	247.12	B-76
2,5-Dichlorobenzoic acid *n*-propyl ester	$C_{10}H_{10}Cl_2O_2$	233.09	P-123
2,2′-Dichlorobiphenyl	$C_{12}H_8Cl_2$	223.10	D-22–D-24
4,4′-Dichlorobiphenyl	$C_{12}H_8Cl_2$	223.10	D-25–D-28
Dichlorobis(triphenylphosphine)nickel(II)	$C_{36}H_{30}Cl_2NiP_2$	654.20	D-29
Dichlorobis(η^5-cyclopentadienyl)-titanium	$C_{10}H_{10}Cl_2Ti$	249.00	T-43
Dichlorobis(η^5-cyclopentadienyl)-zirconium	$C_{10}H_{10}Cl_2Zr$	292.32	C-213
Dichlorobis[η^5-(trimethylsilyl)-cyclopentadienyl]zirconium	$C_{16}H_{26}Cl_2Si_2Zr$	434.00	C-214

(*continued*)

Solute	Formula	MW	Data Table No.
4,4′-Dichlorodiphenyl-trichloroethane	$C_{14}H_9Cl_5$	354.49	D-1
2,2-Dichloro-*N*-((1*R*,2*R*)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl)-acetamide	$C_{11}H_{12}Cl_2N_2O_5$	323.13	C-52
2,2-Dichloro-*N*-[(1*S*,2*R*)-1-(fluoromethyl)-2-hydroxy-2-[4-(methyl sulfonyl)phenyl]ethyl]-acetamide	$C_{12}H_{14}Cl_2FNO_4S$	358.21	F-32
2,2-Dichloro-*N*-[2-hydroxy-1-(hydroxymethyl)-2-[4-(methyl-sulfonyl) phenyl]ethyl]-acetamide	$C_{12}H_{15}Cl_2NO_5S$	356.22	T-39
2,4-Dichlorophenol	$C_6H_4Cl_2O$	163.00	D-31
2,4-Dichlorophenoxy acetic acid	$C_8H_6Cl_2O_3$	221.04	D-32–D-35, P-43
2,4-Dichlorophenoxy ethanoic acid	$C_8H_6Cl_2O_3$	221.04	D-32–D-35
2-[4-(2,4-Dichlorophenoxy)phenoxy]-propanoic acid	$C_{15}H_{12}Cl_2O_4$	327.16	P-43
3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea	$C_9H_{10}Cl_2N_2O_2$	249.09	P-43
1-[2-(2,4-Dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-1*H*-imidazole	$C_{18}H_{14}Cl_4N_2O$	416.12	M-55
Diclofenac Sodium	$C_{14}H_{11}Cl_2NO_2 \cdot Na$	318.13	D-36
Diclofop	$C_{15}H_{12}Cl_2O_4$	327.16	P-43
Diclofopmethyl	$C_{16}H_{14}Cl_2O_4$	341.19	P-43
Didodecanoyl glycerol	$C_{27}H_{52}O_5$	456.70	D-58
Didodecylamine	$C_{24}H_{51}N$	353.67	D-37
Didodecylphosphine	$C_{24}H_{51}P$	370.64	D-38
Didodecylsulfane	$C_{24}H_{50}S$	370.72	D-39
Didodecylthioether	$C_{24}H_{50}S$	370.72	D-39
Diethyl 1,2-benzenedicarboxylate	$C_{12}H_{14}O_4$	222.24	D-42
Diethyl methyl carbinol	$C_6H_{14}O$	102.17	M-51
Diethyl phthalate	$C_{12}H_{14}O_4$	222.24	D-42
Diethylamine diethyldithio-carbamate	$C_5H_{11}NS_2 \cdot C_4H_{11}N$	222.41	D-40
2-(Diethylamino)-2′,6′-acetoxylidide	$C_{14}H_{22}N_2O$	234.34	L-9
2-(Diethylamino)-*N*-(2,6-dimethylphenyl)-acetamide	$C_{14}H_{22}N_2O$	234.34	L-9
2-(Diethylamino)ethyl-4-aminobenzoate	$C_{13}H_{20}N_2O_2$	236.31	P-111
N,*N*′-Diethylcarbanilide	$C_{17}H_{20}N_2O$	268.35	E-16
N,*N*-Diethyl-*N*,*N*′-diphenylurea	$C_{17}H_{20}N_2O$	268.35	E-16
N,*N*-Diethyldithiocarbamic acid diethylamine salt	$C_5H_{11}NS_2 \cdot C_4H_{11}N$	222.41	D-40
3(6),3′(6′)-Difluorodibenzo-16-crown-5-oxyacetic acid	$C_{21}H_{22}F_2O_8$	440.40	L-2
Dihexyl(diethylcarbamoyl)methyl-phosphonate	$C_{18}H_{38}NO_4P$	363.47	D-43
Dihexyl-(*N*,*N*-diethylcarbamoyl)-methylphosphonate	$C_{18}H_{38}NO_4P$	363.47	D-43

(*continued*)

Solute	Formula	MW	Data Table No.
N,*N*-Dihexyl-1-hexanamine	$C_{18}H_{39}N$	269.51	T-66
[2-[[4-(Dihexylamino)-2-methylphenyl] methylene]-1,1-dioxidobenzo[*b*]thien-3(2*H*)-ylidene] propanedinitrile	$C_{31}H_{37}N_3O_2S$	515.71	C-111
1,2-Dihydroacenaphthylene	$C_{12}H_{10}$	154.21	A-1, A-2
1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridine dicarboxylic acid 2-methoxyethyl 1-methylethyl ester	$C_{21}H_{26}N_2O_7$	418.44	N-74
1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridine-dicarboxylic acid ethyl methyl ester	$C_{18}H_{20}N_2O_6$	360.36	N-75
[2*R*[2*R**(4*R**,8*R**)]]-3,4-Dihydro-2,8-dimethyl-2-(4,8,12-trimethyl tridecyl)-2*H*-benzopyran-6-ol	$C_{27}H_{46}O_2$	402.65	T-49, T-50
3,7-Dihydro-3,7-dimethyl-1*H*-purine-2,6-dione	$C_7H_8N_4O_2$	180.16	T-30–T-34
3,4-Dihydro-5-methoxy-1(2*H*)-naphthalenone	$C_{11}H_{12}O_2$	176.21	M-28
3,4-Dihydro-6-methoxy-1(2*H*)-naphthalenone	$C_{11}H_{12}O_2$	176.21	M-29
3,4-Dihydro-7-methoxy-1(2*H*)-naphthalenone	$C_{11}H_{12}O_2$	176.21	M-30
(2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyl tridecyl]-2*H*-1-benzopyran-6-ol	$C_{29}H_{50}O_2$	430.71	T-44–T-48
1,8-Dihydroxyanthracen-9(10*H*)-one	$C_{14}H_{10}O_3$	226.23	D-49
1,2-Dihydroxyanthraquinone	$C_{14}H_8O_4$	240.22	C-156
1,4-Dihydroxyanthraquinone	$C_{14}H_8O_4$	240.21	D-44, D-45
1,8-Dihydroxyanthraquinone	$C_{14}H_8O_4$	240.21	D-46–D-48
1,8-Dihydroxyanthrone	$C_{14}H_{10}O_3$	226.23	D-49
1,8-Dihydroxy-9-anthrone	$C_{14}H_{10}O_3$	226.23	D-49
3,4-Dihydroxybenzaldehyde	$C_7H_6O_3$	138.12	P-126
1,3-Dihydroxybenzene	$C_6H_6O_2$	110.11	R-3
o-Dihydroxybenzene	$C_6H_6O_2$	110.11	D-50
m-Dihydroxybenzene	$C_6H_6O_2$	110.11	D-50
p-Dihydroxybenzene	$C_6H_6O_2$	110.11	D-50
3,4-Dihydroxybenzeneacrylic acid	$C_9H_8O_4$	180.16	C-2
2,5-Dihydroxybenzoic acid	$C_7H_6O_4$	154.12	G-2
3,4-Dihydroxybenzoic acid	$C_7H_6O_4$	154.12	P-127
1,8-Dihydroxy-2,7-bis (prop-1′-enyl)-anthraquinone	$C_{20}H_{16}O_4$	320.34	D-51
3,4-Dihydroxycinnamic acid	$C_9H_8O_4$	180.16	C-2
6,7-Dihydroxycoumarin	$C_9H_6O_4$	178.14	A-21
7,8-Dihydroxyflavone	$C_{15}H_{10}O_4$	254.24	D-52
1,8-Dihydroxy-4-(*p*−2-hydroxy-ethylanilino)-5-nitroanthra-quinone	$C_{22}H_{16}N_2O_7$	420.37	C-94
1,4-Dihydroxy-3-methyl-9*H*-thioxanthen-9-one	$C_{14}H_{10}O_3S$	258.29	D-53
1,4-Dihydroxy-3-methylthioxanthone	$C_{14}H_{10}O_3S$	258.29	D-53

(*continued*)

Solute	Formula	MW	Data Table No.
7,8-Dihydroxy-2-phenyl-4-benzopyrone	$C_{15}H_{10}O_4$	254.24	D-52
17,21-Dihydroxy-1,4-pregnadiene-3,11,20-trione	$C_{21}H_{26}O_5$	358.43	P-110
1,8- Dihydroxy-2-(prop-2′-enyl)-anthracen-9-one	$C_{17}H_{14}O_3$	266.30	D-54
1,8- Dihydroxy-2-(prop-2′-enyl)anthrone	$C_{17}H_{14}O_3$	266.30	D-54
1,6-Dihydroxyxanthen-9-one	$C_{13}H_8O_4$	228.20	D-55
1,6-Dihydroxyxanthone	$C_{13}H_8O_4$	228.20	D-55
Diiodomethyl *p*-tolyl sulfone	$C_8H_8I_2O_2S$	422.02	D-56
Diisodecyl phosphoric acid	$C_{20}H_{43}O_4P$	378.53	D-57
Dilaurin	$C_{27}H_{52}O_5$	456.70	D-58
Dilaurylamine	$C_{24}H_{51}N$	353.67	D-37
Dilaurylphosphine	$C_{24}H_{51}P$	370.64	D-38
1,2-Dimethoxybenzene	$C_8H_{10}O_2$	138.16	D-59
1,4-Dimethoxybenzene	$C_8H_{10}O_2$	138.16	D-60
2,4-Dimethoxy-6-sulfonylamido-1,3-diazine	$C_{12}H_{14}N_4O_4S$	310.33	S-39, S-40
2,6-Dimethoxy-4-sulfanilamido-pyrimidine	$C_{12}H_{14}N_4O_4S$	310.33	S-39, S-40
Dimethyl 2*H*-1-benzopyran-2,3-dicarboxylate	$C_{13}H_{12}O_5$	284.23	D-64
Dimethyl 6-bromo-2*H*−1-benzopyran-2,3-dicarboxylate	$C_{13}H_{11}BrO_5$	327.13	D-65
Dimethyl 6-bromo-2*H*-chromene-2,3-dicarboxylate	$C_{13}H_{11}BrO_5$	327.13	D-65
Dimethyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate	$C_{17}H_{14}O_5$	298.29	D-76
Dimethyl 2*H*-chromene-2,3-dicarboxylate	$C_{13}H_{12}O_5$	284.23	D-64
Dimethyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate	$C_{17}H_{14}O_5$	298.29	D-76
3,7-Dimethyl-1,6-octadien-3-ol	$C_{10}H_{18}O$	154.25	L-21, L-22
3,7-Dimethyl-2,6-octadienal	$C_{10}H_{16}O$	152.23	C-163, C-164, L-19
*N*1-(4,6-Dimethyl-2-pyrimidinyl)-sulfanilamide	$C_{12}H_{14}N_4O_2S$	278.33	S-42, S-43
2,8-Dimethyl-6*H*,12*H*-5,11-methano-dibenzo[*b,f*][1,5]diazocine	$C_{17}H_{18}N_2$	250.34	T-104
(all-*E*)−3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraen-1-ol	$C_{20}H_{30}O$	286.45	R-5
4-Dimethylaminoazobenzene	$C_{14}H_{15}N_3$	225.29	D-61, D-62
p-Dimethylaminoazobenzene	$C_{14}H_{15}N_3$	225.29	D-61, D-62
5-[3-(Dimethylamino)propyl]-10,11-dihydro-5H-dibenz[*b,f*]azepine hydrochloride	$C_{19}H_{24}N_2HCl$	316.87	I-1
2,5-Dimethylaniline	$C_8H_{11}N$	121.18	D-63
2,5-Dimethylbenzenamine	$C_8H_{11}N$	121.18	D-63
2-(1,1-Dimethylethyl)phenol	$C_{10}H_{14}O$	150.22	B-80
2,3-Dimethylhexane	C_8H_{18}	114.23	D-66
N,*N*-Dimethylindoaniline	$C_{14}H_{14}N_2O$	226.27	P-77, P-78

(*continued*)

Solute	Formula	MW	Data Table No.
2,3-Dimethylnaphthalene	$C_{12}H_{12}$	156.22	D-67–D-69, N-27, P-69
2,6-Dimethylnaphthalene	$C_{12}H_{12}$	156.22	D-69–D-74, N-28, P-70
2,7-Dimethylnaphthalene	$C_{12}H_{12}$	156.22	D-74, D-75
2,5-Dimethylphenol	$C_8H_{10}O$	122.16	X-1
2,6-Dimethylphenol	$C_8H_{10}O$	122.16	X-2
3,4-Dimethylphenol	$C_8H_{10}O$	122.16	X-3
1,3-Dimethylxanthine	$C_7H_8N_4O_2$	180.16	T-35–T-38
3,7-Dimethylxanthine	$C_7H_8N_4O_2$	180.16	T-30–T-34
Di-*n*-dodecylamine	$C_{24}H_{51}N$	353.67	D-37
2,4-Dinitrophenol	$C_6H_4N_2O_5$	184.11	D-77
2,5-Dinitrophenol	$C_6H_4N_2O_5$	184.11	D-78
Dinonyl 1,2-benzenedicarboxylate	$C_{26}H_{42}O_4$	418.61	D-79–D-82
Dinonyl phthalate	$C_{26}H_{42}O_4$	418.61	D-79–D-82
Dioctyl ether	$C_{16}H_{34}O$	242.44	D-83
Dioctyl phthalate	$C_{24}H_{38}O_4$	390.56	D-84
Diolein	$C_{39}H_{72}O_5$	620.99	D-85
1,3-Diphenyl-1,3-propanedione	$C_{15}H_{12}O_2$	224.25	D-19
5,5-Diphenyl-2,4-imidazolidinedione	$C_{15}H_{12}N_2O_2$	252.27	P-82
Diphenylamine	$C_{12}H_{11}N$	169.22	D-86–D-88
N,*N*-Diphenylbenzenamine	$C_{18}H_{15}N$	245.32	T-91
1,3-Diphenylbenzene	$C_{18}H_{14}$	230.30	T-6
Diphenyldiazene	$C_{12}H_{10}N_2$	182.22	A-80, A-81
Diphenylene oxide	$C_{12}H_8O$	168.19	D-17
Diphenylene sulfide	$C_{12}H_8S$	184.26	D-18
1,2-Diphenylethane	$C_{14}H_{14}$	182.26	B-34
5,5-Diphenylhydantoin	$C_{15}H_{12}N_2O_2$	252.27	P-82
Diphenylmethane	$C_{13}H_{12}$	168.23	D-89, N-29
Di-tert-butyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate	$C_{23}H_{26}O_5$	382.46	D-20
Di-tert-butyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate	$C_{23}H_{26}O_5$	382.46	D-20
DMDT	$C_{16}H_{15}Cl_3O_2$	345.65	M-22
Docosahexaenoic acid ethyl ester	$C_{24}H_{36}O_2$	356.54	D-90, D-91
(*all-Z*)-4,7,10,13,16,19-Docosahexaenoic acid ethyl ester	$C_{24}H_{36}O_2$	356.54	D-90, D-91
Docosane	$C_{22}H_{46}$	310.60	D-92
Docosanoic acid	$C_{22}H_{44}O_2$	340.58	B-4–B-7
Docosyl docosanoate	$C_{44}H_{88}O_2$	649.17	B-8
6,7,9,10,12,13,20,21,23,24,26,27-Dodecahydrodibenz[*b,n*][1,4,7,10,13,16,19,22]-octaoxacyclotetracosin	$C_{24}H_{32}O_8$	448.51	D-14
Dodecane	$C_{12}H_{26}$	170.33	D-93
Dodecanoic acid	$C_{12}H_{24}O_2$	200.32	L-4, L-5
Dodecyl 3,4,5-trihydroxybenzoate	$C_{19}H_{30}O_5$	338.44	D-94
Dodecyl gallate	$C_{19}H_{30}O_5$	338.44	D-94
(*S*)-2-(Dodecylthio)-*N*-(4-hydroxy-2,3,5-trimethylphenyl)-2-phenyl acetamide	$C_{29}H_{43}NO_2S$	469.72	E-1

(*continued*)

Solute	Formula	MW	Data Table No.
Dotriacontane	$C_{32}H_{66}$	450.87	D-95–D-98
Eflucimibe	$C_{29}H_{43}NO_2S$	469.72	E-1
Eicosane	$C_{20}H_{42}$	282.55	E-2, E-3
Eicosanoic acid	$C_{20}H_{40}O_2$	312.53	E-4
1-Eicosanol	$C_{20}H_{42}O$	298.55	A-67, E-5
Eicosapentaenoic acid ethyl ester	$C_{22}H_{34}O_2$	330.50	E-6
(*all Z*)-5,8,11,14,17-Eicosapentaenoic acid ethyl ester	$C_{22}H_{34}O_2$	330.50	E-6
(*all Z*)-5,8,11,14-Eicosatetraenoic acid ethyl ester	$C_{22}H_{36}O_2$	332.52	A-66
Eicosatrienoic acid ethyl ester	$C_{22}H_{38}O_2$	334.54	E-7
Emodin	$C_{15}H_{10}O_5$	270.24	E-8
Endrin	$C_{12}H_8Cl_6O$	380.91	E-9
Epicatechin	$C_{15}H_{14}O_6$	290.27	E-10
Epicatechol	$C_{15}H_{14}O_6$	290.27	E-10
1,8-Epoxy-*p*-menthane	$C_{10}H_{18}O$	154.25	C-158, C-159
12,13-Epoxytrichothec-9-ene-3a,4b, 15-triol 4,15-diacetate	$C_{19}H_{26}O_7$	366.41	D-11
Ergocalciferol	$C_{28}H_{44}O$	396.65	V-7, V-8
(3β,22*E*)-Ergosta-5,7,22-trien-3-ol	$C_{28}H_{44}O$	396.65	E-11, E-12
Ergosterol	$C_{28}H_{44}O$	396.65	E-11, E-12, S-34
Erythromycin	$C_{37}H_{67}NO_{13}$	733.93	E-13
Esculetin	$C_9H_6O_4$	178.14	A-21
Estra-1,3,5(10)-triene-3,17-diol	$C_{18}H_{24}O_2$	272.38	E-14, E-15
β-Estradiol	$C_{18}H_{24}O_2$	272.38	E-14, E-15
1,2-Ethanediol	$C_2H_6O_2$	62.07	E-17
4-(4-Ethoxyanilino)-*N*,*N*-dimethyl-3-nitrobenzenesulfonamide	$C_{16}H_{19}N_3O_5S$	365.40	C-151
Ethyl 4-aminobenzoate	$C_9H_{11}NO_2$	165.19	B-11, B-12
Ethyl 4-hydroxybenzoate	$C_9H_{10}O_3$	166.17	H-76
Ethyl arachidonate	$C_{22}H_{36}O_2$	332.52	A-66
Ethyl centralite	$C_{17}H_{20}N_2O$	268.35	E-16
Ethyl docosahexaenoate	$C_{24}H_{36}O_2$	356.54	D-90, D-91
Ethyl eicosapentaenoate	$C_{22}H_{34}O_2$	330.50	E-6
Ethyl hexadecanoate	$C_{18}H_{36}O_2$	284.48	E-24, E-25
Ethyl myristate	$C_{16}H_{32}O_2$	256.42	E-21
Ethyl octadecanoate	$C_{20}H_{40}O_2$	312.53	E-26
Ethyl oleate	$C_{20}H_{38}O_2$	310.51	E-22, E-23
Ethyl palmitate	$C_{18}H_{36}O_2$	284.48	E-24, E-25
Ethyl stearate	$C_{20}H_{40}O_2$	312.53	E-26
3-[Ethyl[3-methyl-4-[(5-nitro-2-thiazolyl)-azo]phenyl]amino]-1,2-propanediol	$C_{15}H_{19}N_5O_4S$	365.41	C-105
2-Ethyl-1-hexanol	$C_8H_{18}O$	130.23	E-18, E-20
2-Ethyl-1-hydroxyanthracen-9(10*H*)-one	$C_{16}H_{14}O_2$	238.28	H-81
1-Ethyl-6-hydroxy-4-methyl-5-(2-nitro-phenylazo)-2-oxo-1,2-dihydro-pyridine-3-carbonitrile	$C_{15}H_{13}O_4N_5$	327.30	C-153
2-Ethylamino-4-isopropylamino-6-methoxy-s-triazine	$C_9H_{17}N_5O$	211.26	A-75

(*continued*)

Solute	Formula	MW	Data Table No.
2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine	$C_9H_{17}N_5S$	227.33	A-23, A-24
α-Ethylcaproic acid	$C_8H_{16}O_2$	144.21	E-19
Ethylene glycol	$C_2H_6O_2$	62.07	E-17
α,α'-Ethylenedinitrilodi-o-cresol	$C_{16}H_{16}N_2O_2$	268.31	S-1
2,2′-(Ethylenedioxy)diethanol	$C_6H_{14}O_4$	150.17	T-63, T-64
2-Ethylhexanoic Acid	$C_8H_{16}O_2$	144.21	E-19, E-20
Di-(2-ethylhexyl)phosphoric acid	$C_{16}H_{35}O_4P$	322.42	D-41
N-Ethyl-*N*-(2-hydroxyethyl)-4-[(*p*-nitrophenyl)azo]aniline	$C_{16}H_{18}N_4O_3$	314.35	C-123–C-125
Eucalyptus leaves extract	N/A	N/A	E-27
Eugenol	$C_{10}H_{12}O_2$	164.20	E-28
Ewe's milk fat	N/A	N/A	E-30
Fat Brown RR	$C_{16}H_{14}N_4$	262.31	C-162
Fe(acac)$_3$	$C_{15}H_{21}FeO_6$	353.17	I-4, I-5
Fe(thd)$_3$	$C_{33}H_{57}FeO_6$	605.65	I-6
Fe(tod)$_3$	$C_{33}H_{57}FeO_6$	605.65	I-7
Fenchone	$C_{10}H_{16}O$	152.23	F-1
Ferrocene	$C_{10}H_{10}Fe$	186.03	F-2–F-5
Ferulic acid	$C_{10}H_{10}O_4$	194.18	F-6–F-8
Fish liver oil (Cod)	N/A	N/A	F-9, F-10
Fish liver oil (Deep Sea Shark)	N/A	N/A	F-13
Fish liver oil (Orange Roughy Fish)	N/A	N/A	F-11
Fish liver oil (Spiny Dogfish)	N/A	N/A	F-12, F-13
Fish oil (Sand Eel)	N/A	N/A	F-14
Fish oil ethyl esters (EE-1)	N/A	N/A	F-15
Fish oil ethyl esters (EE-2)	N/A	N/A	F-16
Fish oil ethyl esters (EE-3)	N/A	N/A	F-17
Fish oil ethyl esters (EE-4)	N/A	N/A	F-18
Fish oil ethyl esters (EE-5)	N/A	N/A	F-19
Fish oil ethyl esters (EE-6)	N/A	N/A	F-20
Fish oil ethyl esters (EE-7)	N/A	N/A	F-21
Fish oil ethyl esters (EE-8)	N/A	N/A	F-22
Fish oil ethyl esters (EE-9)	N/A	N/A	F-23
Fish oil ethyl esters (EE-10)	N/A	N/A	F-24
Fish oil ethyl esters (EE-11)	N/A	N/A	F-25
Fish oil ethyl esters (EE-12)	N/A	N/A	F-26
Fish oil ethyl esters (EE-13)	N/A	N/A	F-27
Fish oil fatty acid ethyl ester	N/A	N/A	F-28
Fish oil fatty acid ethyl ester, Omega 3 Concentrate	N/A	N/A	F-28
Fish oil fatty acid ethyl ester, Original FAEE	N/A	N/A	F-28
Fish oil fatty acid ethyl ester, Urea Fractionated	N/A	N/A	F-28, F-29
Flavon-3-ol	$C_{15}H_{10}O_3$	238.24	H-82
Flavone	$C_{15}H_{10}O_2$	222.24	F-30, F-31
Florfenicol	$C_{12}H_{14}Cl_2FNO_4S$	358.21	F-32
Fluoranthene	$C_{16}H_{10}$	202.25	A-3, F-33–F-35
9-Fluorenone	$C_{13}H_8O$	180.20	F-41

(*continued*)

Solute	Formula	MW	Data Table No.
Fluoren-2-amine	$C_{13}H_{11}N$	181.23	A-31
Fluoren-9-one	$C_{13}H_8O$	180.20	F-41
Fluorene	$C_{13}H_{10}$	166.22	F-27, F-36–F-40
9α-Fluoro-16β-methylprednisolone	$C_{22}H_{29}FO_5$	392.46	B-32
5-Fluoro-2,4-pyrimidinedione	$C_4H_3FN_2O_2$	130.08	F-42
5-Fluorouracil	$C_4H_3FN_2O_2$	130.08	F-42
2-Fluoro-α-methyl-4-biphenylacetic acid	$C_{15}H_{13}FO_2$	244.26	F-43
Flurbiprofen	$C_{15}H_{13}FO_2$	244.26	F-43
1-Formyl-2-naphthol	$C_{11}H_8O_2$	172.18	H-89
Frangulin A	$C_{21}H_{20}O_9$	416.38	F-44
D-Fructose	$C_6H_{12}O_6$	180.16	F-45
D-(−)-Fructose	$C_6H_{12}O_6$	180.16	F-45
Fungal oil	N/A	N/A	F-46
β-D-Galactopyranose pentaacetate	$C_{16}H_{22}O_{11}$	390.34	P-21
β-D-Galactose pentaacetate	$C_{16}H_{22}O_{11}$	390.34	P-21
Gallic acid 3,5-dimethyl ether	$C_9H_{10}O_5$	198.17	S-46
Gallic acid dodecyl ester	$C_{19}H_{30}O_5$	338.44	D-94
Gallic acid methyl ester	$C_8H_8O_5$	184.15	M-39
Gallic acid propyl ester	$C_{10}H_{12}O_5$	212.20	P-124
Gallium tris(acetylacetonate)	$C_{15}H_{21}GaO_6$	367.05	G-1
Gentisic acid	$C_7H_6O_4$	154.12	G-2
Ginger rhizomes extract	N/A	N/A	G-3
D-Glucopyranose pentaacetate	$C_{16}H_{22}O_{11}$	390.34	P-22
D-Glucose	$C_6H_{12}O_6$	180.16	G-4, G-5
D-(+)-Glucose	$C_6H_{12}O_6$	180.16	G-4, G-5
D-Glucose pentaacetate	$C_{16}H_{22}O_{11}$	390.34	P-22
Glycerin	$C_3H_8O_3$	92.09	G-6, G-7
Glycerin monolaurate	$C_{15}H_{30}O_4$	274.40	M-62
Glycerin monooleate	$C_{21}H_{40}O_4$	356.55	M-63, M-64
Glycerin tributyrate	$C_{15}H_{26}O_6$	302.36	T-53, T-54
Glycerin tridecanoate	$C_{33}H_{62}O_6$	554.84	T-55
Glycerin tridodexanoate	$C_{39}H_{74}O_6$	639.00	T-69, T-70
Glycerin trihexanoate	$C_{21}H_{38}O_6$	386.52	T-56
Glycerin trilinoleate	$C_{57}H_{98}O_6$	879.38	T-74
Glycerin trimyristate	$C_{45}H_{86}O_6$	723.16	T-75
Glycerin trioctanoate	$C_{27}H_{50}O_6$	470.68	T-57
Glycerin trioleate	$C_{57}H_{104}O_6$	885.43	T-82–T-86
Glycerin tripalmitate	$C_{51}H_{98}O_6$	807.32	T-87–T-90
Glycerin tristearate	$C_{57}H_{110}O_6$	891.48	T-102
Glycerol	$C_3H_8O_3$	92.09	G-6, G-7
Glycerol dilaurate	$C_{27}H_{52}O_5$	456.70	D-58
Glycerol dioeate	$C_{39}H_{72}O_5$	620.99	D-85
Glycerol monododecanoate	$C_{15}H_{30}O_4$	274.40	M-62
Glycerol monooleate	$C_{21}H_{40}O_4$	356.55	M-63, M-64
Glycerol tributanoate	$C_{15}H_{26}O_6$	302.36	T-53, T-54
Glycerol tricaprate	$C_{33}H_{62}O_6$	554.84	T-55
Glycerol tricaproate	$C_{21}H_{38}O_6$	386.52	T-56
Glycerol tricaprylate	$C_{27}H_{50}O_6$	470.68	T-57
Glycerol trihexadecanoate	$C_{51}H_{98}O_6$	807.32	T-87–T-90
Glycerol trilaurate	$C_{39}H_{74}O_6$	639.00	T-69, T-70

(*continued*)

Solute	Formula	MW	Data Table No.
Glycerol trilinoleate	$C_{57}H_{98}O_6$	879.38	T-74
Glycerol trioctadecanoate	$C_{57}H_{110}O_6$	891.48	T-102
Glycerol trioleate	$C_{57}H_{104}O_6$	885.43	T-82–T-86
Glycerol tritetradecanoate	$C_{45}H_{86}O_6$	723.16	T-75
Glycine	$C_2H_5NO_2$	75.07	G-8
Grape seed oil	N/A	N/A	G-9
Griseofulvin	$C_{17}H_{17}ClO_6$	352.77	G-10
Heneicosane	$C_{21}H_{44}$	296.58	H-1
2,2′,3,4,4′,5,5′-Heptachlorobiphenyl	$C_{12}H_3Cl_7$	395.32	H-2–H-4
Heptacosane	$C_{27}H_{56}$	380.73	H-5
Heptadecane	$C_{17}H_{36}$	240.47	H-6
Heptadecyl methyl ketone	$C_{19}H_{38}O$	282.50	N-88
Hexabromocyclododecane	$C_{12}H_{18}Br_6$	641.73	H-7
Hexacarbonylmolybdenum	C_6MoO_6	264.00	M-58
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4α,5,6,7,8,8α-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene	$C_{12}H_8Cl_6O$	380.91	E-9
Hexachlorobenzene	C_6Cl_6	284.78	H-8–H-10
2,2′,3,3′,4,4′-Hexachlorobiphenyl	$C_{12}H_4Cl_6$	360.88	H-11, H-12
2,2′,4,4′,5,5′-Hexachlorobiphenyl	$C_{12}H_4Cl_6$	360.88	H-13–H-15
γ-1,2,3,4,5,6-Hexachlorocyclohexane	$C_6H_6Cl_6$	290.83	L-23
Hexachloroethane	C_2Cl_6	236.74	H-16
Hexacosane	$C_{26}H_{54}$	366.71	H-17, H-18
6,7,9,10,12,13,15,16,23,24,26,27,29,30,32,33-Hexadecahydro dibenzo[*b*,*q*][1,4,7,10,13,16,19,22,25,28]decaoxacyclotriacontin	$C_{28}H_{40}O_{10}$	536.61	D-16
Hexadecane	$C_{16}H_{34}$	226.44	H-19–H-21
Hexadecanoic acid	$C_{16}H_{32}O_2$	256.42	P-6–P-13
1-Hexadecanol	$C_{16}H_{34}O$	242.44	C-47–C-51
Hexadecyl docosanoate	$C_{38}H_{76}O_2$	565.01	P-14
N-Hexadecyl-7-nitro-4-benzofurazanamine	$C_{22}H_{36}N_4O_3$	404.55	H-22
4-(Hexadecylamino)-7-nitrobenz-2-oxa-1,3-diazole	$C_{22}H_{36}N_4O_3$	404.55	H-22
(*all E*)-2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene	$C_{30}H_{50}$	410.72	S-13, S-14
Hexamethylbenzene	$C_{12}H_{18}$	162.27	B-26, H-23–H-25
2,6,10,15,19,23-Hexamethyltetracosane	$C_{30}H_{62}$	422.81	S-7–S-12
Hexanoic Acid	$C_6H_{12}O_2$	116.16	H-26, H-27
1-Hexanoic Acid	$C_6H_{12}O_2$	116.16	H-26, H-27
1-Hexanol	$C_6H_{14}O$	102.17	H-28
3-Hexanol	$C_6H_{14}O$	102.17	H-29
Hexatriacontane	$C_{36}H_{74}$	506.97	H-30–H-32
n-Hexyl alcohol	$C_6H_{14}O$	102.17	H-28
Hydrocortisone	$C_{21}H_{30}O_5$	362.46	H-33
Hydroquinone	$C_6H_6O_2$	110.11	D-50, H-34–H-39
Hydroquinone dimethyl ether	$C_8H_{10}O_2$	138.16	D-60
4′-Hydroxyacetanilide	$C_8H_9NO_2$	151.16	A-4–A-6
4-Hydroxy-1,2-dimethylbenzene	$C_8H_{10}O$	122.16	X-3
($\pm$)-2-Hydroxy-1,2-diphenylethanone	$C_{14}H_{12}O_2$	212.24	B-27

(*continued*)

Solute	Formula	MW	Data Table No.
4-hydroxy-1,3-dimethylanthracen-10(9*H*)-one	$C_{16}H_{14}O_2$	238.28	H-80
18β-Hydroxy-11,17α-dimethoxy-3β,20α-yohimban-16β-carboxylic acid methyl ester 3,4,5-trimethoxybenzoate	$C_{33}H_{40}N_2O_9$	608.68	R-2
1-Hydroxy-2-(1-butoxymethyl)-anthraquinone	$C_{19}H_{18}O_4$	310.34	H-41
1-Hydroxy-2-(1-propoxymethyl)-anthraquinone	$C_{18}H_{16}O_4$	293.23	H-47
1-Hydroxy-2-(ethoxymethyl)-anthraquinone	$C_{17}H_{14}O_4$	282.29	H-42
1-Hydroxy-2-(isobutoxymethyl)-anthraquinone	$C_{19}H_{18}O_4$	310.34	H-43
1-Hydroxy-2-(methoxymethyl)-anthraquinone	$C_{16}H_{12}O_4$	268.26	H-44
1-Hydroxy-2,4-dimethylanthrone	$C_{16}H_{14}O_2$	238.28	H-80
1-Hydroxy-2-ethylanthrone	$C_{16}H_{14}O_2$	238.28	H-81
1-Hydroxy-2-methylanthracen-9(10*H*)-one	$C_{15}H_{12}O_2$	224.25	H-85
1-Hydroxy-2-methylanthraquinone	$C_{15}H_{10}O_3$	238.25	H-84
1-Hydroxy-2-methylanthrone	$C_{15}H_{12}O_2$	224.25	H-85
4-Hydroxy-2-methyl-*N*-2-pyridinyl-2*H*−1,2-benzothiazine-3-carboxamide 1,1-dioxide	$C_{15}H_{13}N_3O_4S$	331.35	P-89
2-Hydroxy-1-naphthaldehyde	$C_{11}H_8O_2$	172.18	H-89
2-Hydroxy-2-phenylacetic acid	$C_8H_8O_3$	152.15	M-1
(±)-2-Hydroxy-2-phenylacetophenone	$C_{14}H_{12}O_2$	212.24	B-27
3-Hydroxy-2-phenylchromone	$C_{15}H_{10}O_3$	238.24	H-82
2-(3-Hydroxy-2-quinolyl)-1,3-indanedione	$C_{18}H_{11}NO_3$	289.28	C-149
4-Hydroxy-3,5-dimethoxybenzoic acid	$C_9H_{10}O_5$	198.17	S-46
4-Hydroxy-3-methoxybenzaldehyde	$C_8H_8O_3$	152.15	V-3
4-Hydroxy-3-methoxybenzoic acid	$C_8H_8O_4$	168.15	V-1, V-2
4-Hydroxy-3-methoxycinnamic acid	$C_{10}H_{10}O_4$	194.18	F-6–F-8
3-(4-Hydroxy-3-methoxyphenyl)acrylic acid	$C_{10}H_{10}O_4$	194.18	F-6–F-8
1-Hydroxy-3-methyl-9*H*-xanthen-9-one	$C_{14}H_{10}O_3$	226.23	H-88
1-Hydroxy-3-methylthioxanthen-9-one	$C_{14}H_{10}O_2S$	242.29	H-87
1-Hydroxy-3-methylthioxanthone	$C_{14}H_{10}O_2S$	242.29	H-87
1-Hydroxy-3-methylxanthone	$C_{14}H_{10}O_3$	226.23	H-88
1-Hydroxy-4-(prop-2-enyloxy)-anthraquinone	$C_{17}H_{12}O_4$	280.27	H-45
7-Hydroxy-4-methyl-2*H*-chromen-2-one	$C_{10}H_8O_3$	176.17	H-86
7-Hydroxy-4-methylcoumarin	$C_{10}H_8O_3$	176.17	H-86
1-Hydroxy-8-(prop-2-enyloxy)-anthraquinone	$C_{17}H_{12}O_4$	280.27	H-46
1-Hydroxy-9*H*-thioxanthen-9-one	$C_{13}H_8O_2S$	228.27	H-92
1-Hydroxy-9*H*-xanthen-9-one	$C_{13}H_8O_3$	212.20	H-93
17β-Hydroxyandrost-4-en-3-one	$C_{19}H_{28}O_2$	288.42	T-7, T-8
2-Hydroxyanisole	$C_7H_8O_2$	124.14	M-26

(*continued*)

Solute	Formula	MW	Data Table No.
1-Hydroxyanthraquinone	$C_{14}H_8O_3$	224.21	H-40
p-Hydroxyazobenzene	$C_{12}H_{10}N_2O$	198.22	H-48, H-49
α-Hydroxybenzeneacetic acid	$C_8H_8O_3$	152.15	M-1
2-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-50–H-62
3-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-68–H-72
4-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-73–H-75
o-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-50–H-66
m-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-63, H-64, H-66–H-72
p-Hydroxybenzoic acid	$C_7H_6O_3$	138.12	H-65–H-67, H-73–H-75
4-Hydroxybenzoic acid ethyl ester	$C_9H_{10}O_3$	166.17	H-76
2-Hydroxybenzoic acid methyl ester	$C_8H_8O_3$	152.15	M-52
4-Hydroxybenzoic acid propyl ester	$C_{10}H_{12}O_3$	180.20	P-125
($\pm$)-2-Hydroxycaproic acid	$C_6H_{12}O_3$	132.16	H-83
4-Hydroxychromen-2-one	$C_9H_6O_3$	162.14	H-77
7-Hydroxychromen-2-one	$C_9H_6O_3$	162.14	H-78, C-79
2-Hydroxycinnamic acid	$C_9H_8O_3$	164.16	C-192, C-193
3-Hydroxycinnamic acid	$C_9H_8O_3$	164.16	C-194, C-195
4-Hydroxycinnamic acid	$C_9H_8O_3$	164.16	C-196–C-199
4-Hydroxycoumarin	$C_9H_6O_3$	162.14	H-77
7-Hydroxycoumarin	$C_9H_6O_3$	162.14	H-78, H-79
3-Hydroxyflavone	$C_{15}H_{10}O_3$	238.24	H-82
2-Hydroxyhexanoic acid	$C_6H_{12}O_3$	132.16	H-83
N-(4-Hydroxyphenyl)acetamide	$C_8H_9NO_2$	151.16	A-4–A-6
2-Hydroxypropanoic acid	$C_4H_6O_3$	90.08	L-1
4-Hydroxypyrimidine	$C_4H_4N_2O$	96.09	H-90
8-Hydroxyquinoline	C_9H_7NO	145.16	H-91
5-Hydroxysalicylic acid	$C_7H_6O_4$	154.12	G-2
1-Hydroxythioxanthone	$C_{13}H_8O_2S$	228.27	H-92
1-Hydroxyxanthone	$C_{13}H_8O_3$	212.20	H-93
Imipramine hydrochloride	$C_{19}H_{24}N_2HCl$	316.87	I-1
Indium tris(acetylacetonate)	$C_{15}H_{21}InO_6$	412.15	I-2
1*H*-Indole	C_8H_7N	117.15	I-3
Indole	C_8H_7N	117.15	I-3
Iodoform	CHI_3	393.73	T-68
Ionic liquid [bmim][BF_4]	$C_8H_{15}N_2 \cdot BF_4$	226.02	B-79
Ionic liquid [bmim][PF_6]	$C_8H_{15}N_2 \cdot F_6P$	284.18	B-77, B-78
Iron bis(cyclopentadienide)	$C_{10}H_{10}Fe$	186.03	F-2–F-5
Iron tris(acetylacetonate)	$C_{15}H_{21}FeO_6$	353.17	I-4, I-5
Iron tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	$C_{33}H_{57}FeO_6$	605.65	I-6
Iron tris(2,2,7-trimethyl-3,5-octanedionate)	$C_{33}H_{57}FeO_6$	605.65	I-7
1,3-Isobenzofurandione	$C_8H_4O_3$	148.12	P-83
(4*S*)-4-Isopropenyl-1-methyl-1-cyclohexene	$C_{10}H_{16}$	136.23	L-17
4-Isopropenyl-1-methyl-1-cyclohexene	$C_{10}H_{16}$	136.23	L-10–L-16, L-18
5-Isopropyl-2-methylphenol	$C_{10}H_{14}O$	150.22	C-41
1-(Isopropylamino)-3-(1-naphthyloxy)-2-propanol	$C_{16}H_{21}NO_2$	259.35	P-122

(*continued*)

Solute	Formula	MW	Data Table No.
4,4′-Isopropylidenebis[2,6-dibromophenol]	$C_{15}H_{12}Br_4O_2$	543.87	T-10
5-Isopropyl-*o*-cresol	$C_{10}H_{14}O$	150.22	C-41
Jojoba bean oil	N/A	N/A	J-1
Jojoba wax	N/A	N/A	J-1
Ketoprofen	$C_{16}H_{14}O_3$	254.28	K-1–K-3
Krytox dithiol	N/A	N/A	K-4
Krytox picolyl amine	N/A	N/A	K-5
Lactic acid	$C_4H_6O_3$	90.08	L-1
Lariat ether carboxylic acid, non-fluorinated	$C_{21}H_{24}O_8$	404.42	L-2
Lariat ether carboxylic acid, fluorine-containing	$C_{29}H_{26}F_6O_8$	616.51	L-2
Lariat ether carboxylic acid, ring-fluorinated	$C_{21}H_{22}F_2O_8$	440.40	L-2
Lasalocid sodium salt	$C_{34}H_{53}NaO_8$	612.78	L-3
Lauric acid	$C_{12}H_{24}O_2$	200.32	L-4, L-5
Lead bis(diisopropyldithiocarbamate)	$C_{14}H_{28}N_2PbS_4$	559.83	L-6
Lecithin S20	N/A	N/A	L-7
L-Leucine	$C_6H_{13}NO_2$	131.17	L-8
D-(−)-Levulose	$C_6H_{12}O_6$	180.16	F-45
Li(acac)	$C_5H_7LiO_2$	106.05	L-27
Lidocaine	$C_{14}H_{22}N_2O$	234.34	L-9
Limonene	$C_{10}H_{16}$	136.23	L-10–L-20
L-Limonene	$C_{10}H_{16}$	136.23	L-17
Linalool	$C_{10}H_{18}O$	154.25	L-20–L-22
Lindane	$C_6H_6Cl_6$	290.83	L-23
Linoleic Acid	$C_{18}H_{32}O_2$	280.45	L-24, L-25
Linuron	$C_9H_{10}Cl_2N_2O_2$	249.09	P-43
Lipids	N/A	N/A	L-26
Lithium acetylacetonate	$C_5H_7LiO_2$	106.05	L-27
L-Phenylalanine	$C_9H_{11}NO_2$	165.19	P-80
Mandelic acid	$C_8H_8O_3$	152.15	M-1
Manganese tris(acetylacetonate)	$C_{15}H_{21}MnO_6$	352.27	M-3
Manganese bis(acetylacetonate) dihydrate	$C_{10}H_{14}MnO_4 \cdot 2H_2O$	289.19	M-2
Medroxyprogesterone acetate	$C_{24}H_{34}O_4$	386.52	M-4, M-5
Megestrol acetate	$C_{24}H_{32}O_4$	384.51	M-6
Menadione	$C_{11}H_8O_2$	172.18	V-12, V-13
p-Mentha-1,8-diene	$C_{10}H_{16}$	136.23	L-10–L-16
(*S*)-(−)-*p*-Mentha-1,8-diene	$C_{10}H_{16}$	136.23	L-17
(*R*)-(−)-*p*-Mentha-6,8-dien-2-one	$C_{10}H_{14}O$	150.22	C-42
Menthol	$C_{10}H_{20}O$	156.27	M-7–M-9
2-Mercaptopyrimidine	$C_4H_4N_2S$	112.15	M-10
Mercury bis(dibutyldithiocarbamate)	$C_{18}H_{36}HgN_2S_4$	609.33	M-11
Mercury bis(diethyldithiocarbamate)	$C_{10}H_{20}HgN_2S_4$	497.11	M-11, M-13
Mercury bis(dihexyldithiocarbamate)	$C_{26}H_{52}HgN_2S_4$	721.54	M-11
Mercury bis(dipentyldithiocarbamate)	$C_{22}H_{44}HgN_2S_4$	665.43	M-11
Mercury bis(dipropyldithiocarbamate)	$C_{14}H_{28}HgN_2S_4$	553.22	M-11
Mercury bis[bis(trifluoroethyl)-dithiocarbamate]	$C_{10}H_8F_{12}HgN_2S_4$	713.00	M-11, M-13, M-15

(*continued*)

Solute	Formula	MW	Data Table No.
Mercury pyrrolidinedithiocarbamate	$C_{10}H_{16}HgN_2S_4$	493.08	M-11
Methimazole	$C_4H_6N_2S$	114.17	M-16
5-Methoxy-1*H*-indole	C_9H_9NO	147.17	M-24
5-Methoxy-1-tetralone	$C_{11}H_{12}O_2$	176.21	M-28, M-32
6-Methoxy-1-tetralone	$C_{11}H_{12}O_2$	176.21	M-29, M-31
7-Methoxy-1-tetralone	$C_{11}H_{12}O_2$	176.21	M-30–M-32
7-Methoxy-2*H*-1-benzopyran-2-one	$C_{10}H_8O_3$	176.17	M-23
(*S*)-2-(6-Methoxy-2-naphthyl)propionic acid	$C_{14}H_{14}O_3$	230.26	N-55–N-62
2-Methoxy-4-(2-propenyl)phenol	$C_{10}H_{12}O_2$	164.20	E-28
2-Methoxy-4,6-bis(isopropylamino)-1,3,5-triazine	$C_{10}H_{19}N_5O$	225.29	P-115
2-Methoxyanisole	$C_8H_{10}O_2$	138.16	D-59
4-Methoxyanisole	$C_8H_{10}O_2$	138.16	D-60
4-Methoxybenzaldehyde	$C_8H_8O_2$	136.15	A-35
3-Methoxybenzamide	$C_8H_9O_2N$	151.16	M-17
4-Methoxybenzamide	$C_8H_9O_2N$	151.16	M-18
Methoxybenzene	C_7H_8O	108.14	A-38, A-39
2-Methoxybenzoic acid	$C_8H_8O_3$	152.15	M-19
3-Methoxybenzoic acid	$C_8H_8O_3$	152.15	M-20
4-Methoxybenzoic acid	$C_8H_8O_3$	152.15	A-37, M-21
Methoxychlor	$C_{16}H_{15}Cl_3O_2$	345.65	M-22, P-43
5-Methoxyindole	C_9H_9NO	147.17	M-24
2-Methoxynapthalene	$C_{11}H_{10}O$	158.20	M-25
2-Methoxynitrobenzene	$C_7H_7NO_3$	153.14	N-76
2-Methoxyphenol	$C_7H_8O_2$	124.14	M-26
o-Methoxyphenylacetic acid	$C_9H_{10}O_3$	166.17	M-27
m-Methoxyphenylacetic acid	$C_9H_{10}O_3$	166.17	M-27
p-Methoxyphenylacetic acid	$C_9H_{10}O_3$	166.17	M-27
Methyl 2-[4-(2,4-dichlorophenoxy)-phenoxy]propanoate	$C_{16}H_{14}Cl_2O_4$	341.19	P-43
Methyl cyanide	C_2H_3N	41.05	A-10
Methyl gallate	$C_8H_8O_5$	184.15	M-39
Methyl 2-hydroxybenzoate	$C_8H_8O_3$	152.15	M-52
Methyl 4-hydroxybenzoate	$C_8H_8O_3$	152.15	M-53
Methyl 2-nitrobenzoate	$C_8H_7NO_4$	181.15	M-43
Methyl 3-nitrobenzoate	$C_8H_7NO_4$	181.15	M-44
Methyl 4-nitrobenzoate	$C_8H_7NO_4$	181.15	M-45
Methyl *o*-nitrobenzoate	$C_8H_7NO_4$	181.15	M-43, M-46, M-47
Methyl *m*-nitrobenzoate	$C_8H_7NO_4$	181.15	M-44, M-46
Methyl *p*-nitrobenzoate	$C_8H_7NO_4$	181.15	M-45, M-47
Methyl oleate	$C_{21}H_{36}O_2$	296.49	M-48–M-50
Methyl phenyl ether	C_7H_8O	108.14	A-38
Methyl salicylate	$C_8H_8O_3$	152.15	M-52
2-Methyl-1,4-naphthoquinone	$C_{11}H_8O_2$	172.18	V-12, V-13
3-Methyl-1-phenyl-4-(phenylazo)-pyrazol-5-ol	$C_{16}H_{14}N_4O$	278.31	C-147
5-Methyl-2-(1-methylethyl)-cyclohexanol	$C_{10}H_{20}O$	156.27	M-7–M-9
5-Methyl-2-(1-methylethyl)phenol	$C_{10}H_{14}O$	150.22	T-42

(*continued*)

Solute	Formula	MW	Data Table No.
6-Methyl-2*H*−1-benzopyran-2-one	$C_{10}H_8O_2$	160.17	M-37
7-Methyl-2*H*-1-benzopyran-2-one	$C_{10}H_8O_2$	160.17	M-38
Methyl-2-naphthyl ether	$C_{11}H_{10}O$	158.20	M-25
N-(4-Methyl-2-pyrimidyl)sulfanilamide	$C_{11}H_{12}N_4O_2S$	264.30	S-41
1-Methyl-3-nitrobenzene	$C_7H_7NO_2$	137.14	N-82
3-Methyl-3-pentanol	$C_6H_{14}O$	102.17	M-51
2-Methyl-4-[[4-(phenylazo)-phenyl]azo]phenol	$C_{19}H_{16}N_4O$	316.36	C-145, C-146
1-Methyl-4-imidazoline-2-thione	$C_4H_6N_2S$	114.17	M-16
2-Methyl-5-nitro-1*H*-imidazole-1-ethanol benzoate	$C_{13}H_{13}N_3O_4$	275.26	M-54
4-methyl-6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]-pyrazin-5-yl ester	$C_{17}H_{17}ClN_6O_3$	388.81	Z-3
1-(Methylamino)anthraquinone	$C_{15}H_{11}NO_2$	237.25	C-126
2-Methylanthracene	$C_{15}H_{12}$	192.26	M-33, N-78
2-Methylbenzoic acid	$C_8H_8O_2$	136.16	M-34
3-Methylbenzoic acid	$C_8H_8O_2$	136.16	M-35
4-Methylbenzoic acid	$C_8H_8O_2$	136.16	M-36
24-Methylcholesta-5,7,22-trien-3β-ol	$C_{28}H_{44}O$	396.65	E-11, E-12
6-Methylcoumarin	$C_{10}H_8O_2$	160.17	M-37
7-Methylcoumarin	$C_{10}H_8O_2$	160.17	M-38
2,2′-Methylenebiphenyl	$C_{13}H_{10}$	166.22	F-27, F-36–F-39
1,1′,1″-Methylidynetrisbenzene	$C_{19}H_{16}$	244.33	T-94, T-95
1-Methylimidazole-2-thiol	$C_4H_6N_2S$	114.17	M-16
3-Methylindole	C_9H_9N	131.17	S-5
4-Methyl-L-norvaline	$C_6H_{13}NO_2$	131.17	L-8
Methylmorphine	$C_{18}H_{21}NO_3$	299.36	C-171
1-Methylnaphthalene	$C_{11}H_{10}$	142.20	A-39, B-10, M-40, M-42
2-Methylnaphthalene	$C_{11}H_{10}$	142.20	N-30, M-40–M-42
(*E*)-8-Methyl-*N*-vanillyl-6-nonenamide	$C_{18}H_{27}NO_3$	305.41	C-16–C-18
7-Methoxycoumarin	$C_{10}H_8O_3$	176.17	M-23
Methylparaben	$C_8H_8O_3$	152.15	M-53
4-Methylphenol	C_7H_8O	108.14	C-202
(4*S*)-4-Methylsalinomycin sadium salt	$C_{43}H_{71}NaO_{11}$	787.02	N-63
Methylumbelliferone	$C_{10}H_8O_3$	176.17	M-23
4-Methylumbelliferone	$C_{10}H_8O_3$	176.17	H-86
Metronidazole benzoate	$C_{13}H_{13}N_3O_4$	275.26	M-54
Miconazole	$C_{18}H_{14}Cl_4N_2O$	416.12	M-55
Milk fat triglyceride	N/A	N/A	M-56
Milk thistle seed oil	N/A	N/A	M-57
$Mn(acac)_2 2H_2O$	$C_{10}H_{14}MnO_4 \cdot 2H_2O$	289.19	M-2
$Mn(acac)_3$	$C_{15}H_{21}MnO_6$	352.27	M-3
Molybdenum hexacarbonyl	C_6MoO_6	264.00	M-58
Monensin sodium salt	$C_{36}H_{61}NaO_{11}$	692.86	M-59
Monocrotaline	$C_{16}H_{23}NO_6$	325.36	M-60, M-61
Monolaurin	$C_{15}H_{30}O_4$	274.40	M-62
Monoolein	$C_{21}H_{40}O_4$	356.55	M-63, M-64
Myristic acid	$C_{14}H_{28}O_2$	228.37	M-65–M-67

(*continued*)

Solute	Formula	MW	Data Table No.
Myristic acid ethyl ester	$C_{16}H_{32}O_2$	256.42	E-21
Naphthalene	$C_{10}H_8$	128.17	N-1–N-35, P-71
1,4-Naphthalenedione	$C_{10}H_6O_2$	158.15	N-52–N-54
2-Naphthalenenitrile	$C_{11}H_7N$	153.18	C-204
1-Naphthalenol	$C_{10}H_8O$	144.17	N-36, N-37
2-Naphthalenol	$C_{10}H_8O$	144.17	N-39–N-48
4-(1-Naphthalenylazo)-1,3-benzene-diamine	$C_{16}H_{14}N_4$	262.31	C-162
1-Naphthol	$C_{10}H_8O$	144.17	N-36, N-37
2-Naphthol	$C_{10}H_8O$	144.17	N-39–N-48
α-Naphthol	$C_{10}H_8O$	144.17	N-36–N-38
β-Naphthol	$C_{10}H_8O$	144.17	N-38–N-51
2-Naphthonitrile	$C_{11}H_7N$	153.18	C-204
1,4-Naphthoquinone	$C_{10}H_6O_2$	158.15	N-52–N-54
p-Naphthoquinone	$C_{10}H_6O_2$	158.15	N-52–N-54
Naproxen	$C_{14}H_{14}O_3$	230.26	N-55–N-62
(+)-Naproxen	$C_{14}H_{14}O_3$	230.26	N-55–N-62
(+)-(*S*)-Naproxen	$C_{14}H_{14}O_3$	230.26	N-55–N-62
Narasin sodium salt	$C_{43}H_{71}NaO_{11}$	787.02	N-63
NBD	$C_{22}H_{36}N_4O_3$	404.55	H-22
Nickel bis[bis(trifluoroethyl)-dithiocarbamate]	$C_{10}H_8F_{12}N_2NiS_4$	N/A	M-12, M-13, M-15
Nickel bis(diethyldithiocarbamate)	$C_{10}H_{20}N_2NiS_4$	N/A	M-12, M-13
Nickel bis(hexafluoroacetylacetonate)	$C_{10}H_2F_{12}NiO_4$	N/A	M-13
Nickel Complex	$C_{22}H_{22}N_4Ni$	401.15	N-64–N-66
Nicotinic acid	$C_6H_5NO_2$	123.11	N-67–N-71
Nifedipine	$C_{17}H_{18}N_2O_6$	346.33	N-72
Nimesulide	$C_{13}H_{12}N_2O_5S$	308.31	N-73
Nimodipine	$C_{21}H_{26}N_2O_7$	418.44	N-74
Nitrendipine	$C_{18}H_{20}N_2O_6$	360.36	N-75
2-Nitroanisole	$C_7H_7NO_3$	153.14	N-76
9-Nitroanthracene	$C_{14}H_9NO_2$	223.23	N-77, N-78
2-Nitrobenzoic acid methyl ester	$C_8H_7NO_4$	181.15	M-43
3-Nitrobenzoic acid methyl ester	$C_8H_7NO_4$	181.15	M-44
4-Nitrobenzoic acid methyl ester	$C_8H_7NO_4$	181.15	M-45
4-Nitro-2-chloro-4′-[ethyl(2-hydroxy-ethyl)amino]azobenzene	$C_{16}H_{17}ClN_4O_3$	348.79	C-128
3-Nitro-6-[4-[*N*,*N*-di(acetoxyethyl)-amino]phenyl]azobenzonitrile	$C_{21}H_{21}N_5O_6$	439.43	C-136
2-Nitrodiphenylamine	$C_{12}H_{10}N_2O_2$	214.22	N-79
2-Nitro-*N*-phenylaniline	$C_{12}H_{10}N_2O_2$	214.22	N-79
3-Nitrophenol	$C_6H_5NO_3$	139.11	N-80
4-Nitrophenol	$C_6H_5NO_3$	139.11	N-81
m-Nitrophenol	$C_6H_5NO_3$	139.11	N-80
p-Nitrophenol	$C_6H_5NO_3$	139.11	N-81
4-Nitro-2-phenoxymethanesulfonanilide	$C_{13}H_{12}N_2O_5S$	308.31	N-73
4-(2-Nitrophenyl)-2,6-dimethyl-3,5-dicarbomethoxy-1,4- dihydropyridine	$C_{17}H_{18}N_2O_6$	346.33	N-72
4-(4-Nitrophenylazo)aniline	$C_{12}H_{10}N_4O_2$	242.24	C-114, C-115
1-(4-Nitrophenylazo)-2-naphthol	$C_{16}H_{11}N_3O_3$	293.28	P-18

(*continued*)

Solute	Formula	MW	Data Table No.
2-Nitroso-1-naphthol	$C_{10}H_7NO_2$	173.17	C-155
3-Nitrotoluene	$C_7H_7NO_2$	137.14	N-82
Nonacosane	$C_{29}H_{60}$	408.79	N-83, N-84
Nonadecane	$C_{19}H_{40}$	268.53	N-85, N-86
Nonadecanenitrile	$C_{19}H_{37}N$	279.50	N-87
2-Nonadecanone	$C_{19}H_{38}O$	282.50	N-88
1-Nonanol	$C_9H_{20}O$	144.25	N-89
Nonyl alcohol	$C_9H_{20}O$	144.25	N-89
4-(*N*-Phenylamino)-4′-nitroazobenzene	N/A	N/A	C-113
Octacosane	$C_{28}H_{58}$	394.76	O-1–O-9
(*Z*,*Z*)-9,12-Octadecadienoic acid	$C_{25}H_{32}O_2$	280.45	L-24, L-25
Octadecane	$C_{18}H_{38}$	254.49	O-10, O-11
1-Octadecanethiol	$C_{18}H_{38}S$	268.56	O-16
Octadecanoic acid	$C_{18}H_{36}O_2$	284.48	S-15–S-29
1-Octadecanol	$C_{18}H_{38}O$	270.49	O-12–O-15, S-30–S-32
(*Z*)-9-Octadecenoic acid	$C_{18}H_{34}O_2$	282.46	O-21–O-26
(*Z*)-9-Octadecenoic acid ethyl ester	$C_{20}H_{38}O_2$	310.51	E-22, E-23
(*Z*)-9-Octadecenoic acid methyl ester	$C_{21}H_{36}O_2$	296.49	M-48–M-50
n-Octadecyl alcohol	$C_{18}H_{38}O$	270.49	O-12–O-15, S-30–S-32
Octadecyl cyanide	$C_{19}H_{37}N$	279.50	N-87
Octadecylmercaptan	$C_{18}H_{38}S$	268.56	O-16
(3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one	$C_{15}H_{22}O_5$	282.33	A-69
Octane	C_8H_{18}	114.23	O-17
n-Octane	C_8H_{18}	114.23	B-70, O-17
Octyl 2,5-dichlorobenzoate	$C_{15}H_{20}Cl_2O_2$	303.23	O-18
Octyl ether	$C_{16}H_{34}O$	242.44	D-83
Octyl pentaethylene glycol ether	$C_{18}H_{38}O_6$	350.49	P-36
Octyl(phenyl)(*N*,*N*-diisobutyl carbamoyl)methylphosphine oxide	$C_{24}H_{42}NO_2P$	407.57	O-19
Octylpentaglycol	$C_{18}H_{38}O_6$	350.49	P-36
Okadaic acid	$C_{44}H_{68}O_{13}$	805.00	O-20
Oleic acid	$C_{18}H_{34}O_2$	282.46	O-21–O-27
Oleic acid ethyl ester	$C_{20}H_{38}O_2$	310.51	E-22, E-23
Oleic acid methyl ester	$C_{21}H_{36}O_2$	296.49	M-48–M-50
Olive oil	N/A	N/A	O-27
Orange peel oil	N/A	N/A	O-28
Oxacyclododecan-2-one	$C_{11}H_{20}O_2$	184.28	U-2
Oxacyclohexadecan-2-one	$C_{15}H_{28}O_2$	240.38	P-35
17β-(1-oxopropoxy)-androst-4-en-3-one	$C_{22}H_{32}O_3$	344.49	T-9
Paclitaxel	$C_{47}H_{51}NO_{14}$	853.91	T-1, T-2
Palladium bis(acetylacetonate)	$C_{10}H_{14}O_4Pd$	304.64	P-1
Palladium bis(dibutyldithio-carbamate)	$C_{18}H_{36}N_2PdS_4$	N/A	M-14
Palladium bis(diethyldithiocarbamate)	$C_{10}H_{20}N_2PdS_4$	N/A	M-14
Palladium bis(diisobutyldithiocarbamate)	$C_{18}H_{36}N_2PdS_4$	N/A	M-14
Palladium bis(diisopropyldithio-carbamate)	$C_{14}H_{28}N_2PdS_4$	459.07	M-14, P-4

(*continued*)

Solute	Formula	MW	Data Table No.
Palladium bis(dioctyldithiocarbamate)	$C_{34}H_{68}N_2PdS_4$	N/A	M-14
Palladium bis(dipentyldithiocarbamate)	$C_{22}H_{44}N_2PdS_4$	N/A	M-14
Palladium bis(methylthioglycolate)	$C_6H_{10}O_4PdS_2$	316.69	P-2
Palladium bis(2,2,6,6-tetramethyl-3,5-heptanedionate)	$C_{22}H_{38}O_4Pd$	472.94	P-3
Palladium diimine · BArF complex	N/A	N/A	P-5
Palm kernel oil	N/A	N/A	P-15, P-16
Palm oil	N/A	N/A	P-17
Palmitic acid	$C_{16}H_{32}O_2$	256.42	P-6–P-13
Palmitic acid ethyl ester	$C_{18}H_{36}O_2$	284.48	E-24, E-25
Palmityl alcohol	$C_{16}H_{34}O$	242.44	C-47–C-51
Palmityl behenate	$C_{38}H_{76}O_2$	565.01	P-14
Para red	$C_{16}H_{11}N_3O_3$	293.28	P-18
PCB 15	$C_{12}H_8Cl_2$	223.10	D-25–D-28
PCB 70	$C_{12}H_6Cl_4$	291.99	T-11
PCB 77	$C_{12}H_6Cl_4$	291.99	T-12–T-14
PCB 128	$C_{12}H_4Cl_6$	360.88	H-11, H-12
PCB 153	$C_{12}H_4Cl_6$	360.88	H-13–H-15
PCB 180	$C_{12}H_3Cl_7$	395.32	H-2–H-4
PCB 1254	N/A	326.50	A-68
$Pd(acac)_2$	$C_{10}H_{14}O_4Pd$	304.64	P-1
$Pd(MTG)_2$	$C_6H_{10}O_4PdS_2$	316.69	P-2
$Pd(thd)_2$	$C_{22}H_{38}O_4Pd$	472.94	P-3
PEG	N/A	N/A	P-102
Penicillin G	$C_{16}H_{18}N_2O_4S$	334.39	P-19
Penicillin V	$C_{16}H_{18}N_2O_5S$	350.39	P-20
1,2,3,4,6-Pentaacetyl-D-galactose	$C_{16}H_{22}O_{11}$	390.34	P-21
1,2,3,4,6-Pentaacetyl-D-glucose	$C_{16}H_{22}O_{11}$	390.34	P-22
2,2′,4,5,5′-Pentachlorobiphenyl	$C_{12}H_5Cl_5$	326.43	P-23–P-25
Pentachlorophenol	C_6HCl_5O	266.34	P-26–P-30
Pentacosane	$C_{25}H_{52}$	352.68	P-31, P-32
Pentadecafluorooctyl 2,5-dichlorobenzoate	$C_{15}H_5Cl_2F_{15}O_2$	573.09	P-33
1-Pentadecanol	$C_{15}H_{33}O$	229.42	P-34
Pentadecanolactone	$C_{15}H_{28}O_2$	240.38	P-35
15-Pentadecanolide	$C_{15}H_{28}O_2$	240.38	P-35
Pentaethylene glycol *n*-octyl ether	$C_{18}H_{38}O_6$	350.49	P-36
Pentafluorobutyl 2,5-dichlorobenzoate	$C_{11}H_7Cl_2F_5O_2$	337.07	P-37
Pentafluoropropyl 2,5-dichlorobenzoate	$C_{10}H_5Cl_2F_5O_2$	323.04	P-38
3,3′,4′,5,7-Pentahydroxyflavone	$C_{15}H_{10}O_7$	302.24	P-39, Q-1
Perchlorobenzene	C_6Cl_6	284.80	H-8–H-10
Perchloroethane	C_2Cl_6	236.74	H-16
Perylene	$C_{20}H_{12}$	252.31	P-40–P-42
α-Perylene	$C_{20}H_{12}$	252.31	P-40–P-42
Pesticides	N/A	N/A	P-43
Phenanthrene	$C_{14}H_{10}$	178.23	A-62, A-63, N-31–N-33, N-50, N-51, P-44–P-71
1,10-Phenanthroline	$C_{12}H_8N_2$	180.21	P-72
Phenazine	$C_{12}H_8N_2$	180.21	P-73
Phenazopyridine	$C_{11}H_{11}N_5$	213.24	P-74
Phenol	C_6H_6O	94.11	N-34, P-75, P-76

(*continued*)

Solute	Formula	MW	Data Table No.
Phenol Blue	$C_{14}H_{14}N_2O$	226.27	P-77, P-78
Phenoxymethylpenicillin	$C_{16}H_{18}N_2O_5S$	350.39	P-20
3-Phenyl-1-propanol	$C_9H_{12}O$	136.19	P-81
(*E*)-3-Phenyl-2-propenoic acid	$C_9H_8O_2$	148.16	C-160
2-Phenyl-4-chromone	$C_{15}H_{10}O_2$	222.24	F-30, F-31
Phenylacetic Acid	$C_8H_8O_2$	136.15	P-79
trans−3-Phenylacrylic acid	$C_9H_8O_2$	148.16	C-160
3-Phenyl-L-alanine	$C_9H_{11}NO_2$	165.19	P-80
N-Phenylaniline	$C_{12}H_{11}N$	169.22	D-86–D-88
4-(Phenylazo)phenol	$C_{12}H_{10}N_2O$	198.22	H-48, H-49
4-[4-(Phenylazo)-1-naphthylazo]phenol	$C_{22}H_{16}N_4O$	352.39	C-118
N-Phenylbenzenamine	$C_{12}H_{11}N$	169.22	D-86–D-88
Phenylethanoic acid	$C_8H_8O_2$	136.15	P-79
Phenytoin	$C_{15}H_{12}N_2O_2$	252.27	P-82
Phosphoric acid tributyl ester	$C_{12}H_{27}O_4P$	266.31	T-52
Phosphoric acid triphenyl ester	$C_{18}H_{15}O_4P$	326.28	T-96
1,3-Phthalandione	$C_8H_4O_3$	148.12	P-83
Phthalic acid diethyl ester	$C_{12}H_{14}O_4$	222.24	D-42
Phthalic anhydride	$C_8H_4O_3$	148.12	P-83
Phylloquinone	$C_{31}H_{46}O_2$	450.70	V-11
Phytomenadione	$C_{31}H_{46}O_2$	450.70	V-11
Picric acid	$C_6H_3N_3O_7$	229.10	P-84
2-Pinene	$C_{10}H_{16}$	136.23	P-85–P-88
α-Pinene	$C_{10}H_{16}$	136.23	P-85–P-88
cis-2-Pinen-4-ol	$C_{10}H_{16}O$	152.23	V-5
1-Piperazinecarboxylic acid	$C_{17}H_{17}ClN_6O_3$	388.81	Z-3
Piroxicam	$C_{15}H_{13}N_3O_4S$	331.35	P-89
Platinum(II) acetylacetonate	$C_{10}H_{14}O_4Pt$	393.29	P-90
Platinum bis(acetylacetonate)	$C_{10}H_{14}O_4Pt$	393.29	P-90
PMMA	N/A	90000–120000	P-102
Poly(1,1-dihydroperfluorooctyl acrylate)	N/A	1×10^6	P-91
Poly(ethyl vinyl ether)	N/A	1500	P-99
Poly(ethylene glycol) dimethylether	N/A	500	P-95
Poly(ethylene glycol) diol	N/A	200–600	P-96
Poly(ethylene glycol) monomethylether	N/A	350–1000	P-97
Poly(ethylene glycol-*block*-propylene glycol)	N/A	N/A	P-94
Poly(ethylene glycol-*ran*-propylene glycol)	N/A	970–1700	P-98
Poly(FOEMA-*co*-PPGMA)	N/A	N/A	P-100
Poly(methyl methacrylate)	N/A	540,000	P-103
Poly(oxyalkylene) alkylphenyl ether	N/A	N/A	P-102
Poly(propylene glycol) diol	N/A	400–2000	P-104
Poly(propylene glycol) monobutylether	N/A	1,000	P-105
Poly(propylene glycol) monomethylether	N/A	1000, 1200	P-106
Poly(styrene)	N/A	N/A	P-102
Poly(tetrafluoroethylene-co-vinyl acetate)	N/A	140000–166000	P-107
Poly(vinyl butyral)	N/A	N/A	P-108
Poly(β-hydroxybutyrate)	N/A	800,000	P-101
Polyethylene glycol	N/A	1000–7500	P-92, P-93
Prednisolone	$C_{21}H_{28}O_5$	360.44	P-109

(*continued*)

Solute	Formula	MW	Data Table No.
Prednisone	$C_{21}H_{26}O_5$	358.43	P-110
Pregn-4-ene-3,20-dione	$C_{21}H_{30}O_2$	314.46	P-112
Procaine	$C_{13}H_{20}N_2O_2$	236.31	P-111
Progesterone	$C_{21}H_{30}O_2$	314.46	P-112–P-114
Prometone	$C_{10}H_{19}N_5O$	225.29	P-115
Prometryne	$C_{10}H_{19}N_5S$	241.36	P-116, P-117
1,2-Propanediol	$C_3H_8O_2$	76.09	P-118
1,2,3-Propanetriol	$C_3H_8O_3$	92.09	G-6, G-7
1-Propanol	C_3H_8O	60.10	P-119
2-Propanol	C_3H_8O	60.10	P-120
Propazine	$C_9H_{16}ClN_5$	229.71	P-121
Propranolol	$C_{16}H_{21}NO_2$	259.35	P-112
Propyl 2,5-dichlorobenzoate	$C_{10}H_{10}Cl_2O_2$	233.09	P-123
Propyl 4-hydroxybenzoate	$C_{10}H_{12}O_3$	180.20	P-125
Propyl gallate	$C_{10}H_{12}O_5$	212.20	P-124
Propylene glycol	$C_3H_8O_2$	76.09	P-118
Protocatechualdehyde	$C_7H_6O_3$	138.12	P-126
Protocatechuic acid	$C_7H_6O_4$	154.12	P-127
PS-*b*-(PMMA-*co*-PGMA)	N/A	N/A	P-102
Pyrazinamine	$C_4H_5N_3$	95.10	A-34
Pyrazine-2-carboxylic acid	$C_5H_4N_2O_2$	124.10	P-128
2-Pyrazinoic acid	$C_5H_4N_2O_2$	124.10	P-128
Pyrene	$C_{16}H_{10}$	202.25	P-129–P-137
3-Pyridinecarboxylic acid	$C_6H_5NO_2$	123.11	N-67–N-71
4,4′-(2-Pyridylmethylene)bisphenol diacetate	$C_{22}H_{19}NO_4$	361.39	B-39
4(1*H*)-Pyrimidinone	$C_4H_4N_2O$	96.09	H-90
Pyrimidine-2-thiol	$C_4H_4N_2S$	112.15	M-10
2,4-pyrimidinedione	$C_4H_4N_2O_2$	112.09	U-3
2-Pyrimidinethione	$C_4H_4N_2S$	112.15	M-10
4-Pyrimidone	$C_4H_4N_2O$	96.09	H-90
Pyrocatechol	$C_6H_6O_2$	110.11	D-50, P-138, P-139
Quercetin	$C_{15}H_{10}O_7$	302.24	P-39, Q-1
Quinizarin	$C_{14}H_8O_4$	240.21	D-44, D-45
8-Quinolinol	C_9H_7NO	145.16	H-91
Quinone	$C_6H_4O_2$	108.09	H-39, Q-2, Q-3
p-Quinone	$C_6H_4O_2$	108.09	H-39, Q-2, Q-3
Rape seed oil	$C_{16}H_{34}$	226.44	R-1
RDX	$C_3H_6N_6O_6$	222.12	C-215
Reserpine	$C_{33}H_{40}N_2O_9$	608.68	R-2
Resorcinol	$C_6H_6O_2$	110.11	D-50, R-3
Resveratrol	$C_{14}H_{12}O_3$	228.24	R-4
(*E*)-Resveratrol	$C_{14}H_{12}O_3$	228.24	R-4
Retinol	$C_{20}H_{30}O$	286.45	R-5
all-*trans*-Retinol	$C_{20}H_{30}O$	286.45	R-5
Retinol hexadecanoate	$C_{36}H_{60}O_2$	524.87	V-6
all-*trans*-Retinol palmitate	$C_{36}H_{60}O_2$	524.87	V-6
$Rh(MTG)_3$	$C_9H_{15}O_6RhS_3$	418.31	R-7
Rhodium tris(dibutyldithiocarbamate)	$C_{27}H_{54}N_3RhS_6$	N/A	M-14
Rhodium tris(diethyldithiocarbamate)	$C_{15}H_{30}N_3RhS_6$	N/A	M-14

(*continued*)

Solute	Formula	MW	Data Table No.
Rhodium tris(dihexyldithiocarbamate)	$C_{39}H_{78}N_3RhS_6$	N/A	M-14
Rhodium tris(diisobutyldithiocarbamate)	$C_{27}H_{54}N_3RhS_6$	N/A	M-14
Rhodium tris(diisopropyldithiocarbamate)	$C_{21}H_{42}N_3RhS_6$	631.87	M-14, R-6
Rhodium tris(dioctyldithiocarbamate)	$C_{51}H_{102}N_3RhS_6$	N/A	M-14
Rhodium tris(methylthioglycolate)	$C_9H_{15}O_6RhS_3$	418.31	R-7
Rhodium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	$C_{33}H_{57}O_6Rh$	652.72	R-8
Rosemary oil	N/A	N/A	R-9
Saccharose	$C_{12}H_{22}O_{11}$	342.30	S-35
Salen	$C_{16}H_{16}N_2O_2$	268.31	S-1
Salicylic acid	$C_7H_6O_3$	138.12	A-74, H-50–H-62
Salinomycin sodium salt	$C_{42}H_{69}NaO_{11}$	772.99	S-2
Shale oil	N/A	N/A	S-3
Simazine	$C_7H_{12}ClN_5$	201.66	S-4
Skatole	C_9H_9N	131.17	S-5
Sodium 2-(2,6-dichloroanilino)phenyl acetate	$C_{14}H_{10}Cl_2NNaO_2 \cdot 4H_2O$	390.21	D-36
Sodium bis(trifluoroethyl)-dithiocarbamate	$C_5H_4F_6NNaS_2$	N/A	M-12, M-13
Sodium diethyldithiocarbamate	$C_5H_{10}NNaS_2$	N/A	M-12, M-13
Soybean oil	N/A	N/A	S-6
Squalane	$C_{30}H_{62}$	422.81	S-7–S-12
Squalene	$C_{30}H_{50}$	410.72	S-13, S-14
Stearic acid	$C_{18}H_{36}O_2$	284.48	S-16–S-29
Stearic acid ethyl ester	$C_{20}H_{41}O_2$	312.53	E-26
1-Stearyl alcohol	$C_{18}H_{38}O$	270.49	O-12–O-15
Stearyl alcohol	$C_{18}H_{38}O$	270.49	S-30–S-32
Stearyl mercaptan	$C_{18}H_{38}S$	268.56	O-16
(3β,22*E*)-Stigmasta-5,22-dien-3-ol	$C_{29}H_{48}O$	412.69	S-33, S-34
Stigmasterol	$C_{29}H_{48}O$	412.69	S-33, S-34
3,4′,5-Stilbenetriol	$C_{14}H_{12}O_3$	228.24	R-4
Sucrose	$C_{12}H_{22}O_{11}$	342.30	S-35
(+)-Sucrose	$C_{12}H_{22}O_{11}$	342.30	S-35
Sudan Blue II	$C_{22}H_{26}N_2O_2$	350.45	C-161
Sulfadimethoxine	$C_{12}H_{14}N_4O_4S$	310.33	S-39, S-40
Sulfamerazine	$C_{11}H_{12}N_4O_2S$	264.30	S-41
Sulfamethazine	$C_{12}H_{14}N_4O_2S$	278.33	S-42, S-43
2-(Sulfanilylamino)thiazole	$C_9H_9N_3O_2S_2$	255.32	S-44, S-45
Sulfathiazole	$C_9H_9N_3O_2S_2$	255.32	S-44, S-45
Surfactant Ls-36	$C_{36}H_{74}O_{10}$	666.98	S-36
Surfactant Ls-45	$C_{35}H_{72}O_{10}$	652.95	S-37
Surfactant Ls-54	$C_{34}H_{74}O_{10}$	638.92	S-38
Syringic acid	$C_9H_{10}O_5$	198.17	S-46
Taxol	$C_{47}H_{51}NO_{14}$	853.91	T-1, T-2
Tb(thd)$_3$	$C_{33}H_{57}O_6Tb$	708.74	T-4
Tb(tod)$_3$	$C_{33}H_{57}O_6Tb$	708.74	T-5
Tebuconazole	$C_{16}H_{22}ClN_3O$	307.82	T-3
Terbium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	$C_{33}H_{57}O_6Tb$	708.74	T-4

(*continued*)

Solute	Formula	MW	Data Table No.
Terbium tris(2,2,7-trimethyl-3,5-octanedionate)	$C_{33}H_{57}O_6Tb$	708.74	T-5
m-Terphenyl	$C_{18}H_{14}$	230.30	T-6
Testosterone	$C_{19}H_{28}O_2$	288.42	C-79, P-114, T-7, T-8
Testosterone-17-propionate	$C_{22}H_{32}O_3$	344.49	T-9
2,2′,6,6′-Tetrabromobisphenol A	$C_{15}H_{12}Br_4O_2$	543.87	T-10
Tetrabromobisphenol-A	$C_{15}H_{12}Br_4O_2$	543.87	T-10
2,4,5,6-Tetrachloro-1,3-benzene-dicarbonitrile	$C_8Cl_4N_2$	265.91	T-15
2,3′,4′,5-Tetrachlorobiphenyl	$C_{12}H_6Cl_4$	291.99	T-11
3,3′,4,4′-Tetrachlorobiphenyl	$C_{12}H_6Cl_4$	291.99	T-12–T-14
Tetrachloroisophthalonitrile	$C_8Cl_4N_2$	265.91	T-15
2,3,4,5-Tetrachlorophenol	$C_6H_2Cl_4O$	231.89	T-16
Tetracosane	$C_{24}H_{50}$	338.65	T-17–T-22
6,7,9,10,12,13,15,16,23,24,26,27,29,30-Tetradecahydrodibenzo [*b*,*n*] [1,4,7,10,13,16,19,22,25]-nonaoxacycloheptacosin	$C_{26}H_{36}O_9$	492.56	D-15
Tetradecanoic acid	$C_{14}H_{28}O_2$	228.37	M-65–M-67
Tetradecanoic acid ethyl ester	$C_{16}H_{32}O_2$	256.42	E-21
Tetraethylene glycol lauryl ether	$C_{20}H_{42}O_5$	362.54	T-29
Tetraethylene glycol monododecyl ether	$C_{20}H_{42}O_5$	362.54	T-29
1,2,3,4-Tetrahydro-1-naphthol	$C_{10}H_{12}O$	148.20	T-27, T-28
1,2,3,4-Tetrahydronaphthalene	$C_{10}H_{12}$	132.20	T-25, T-26
(−)-(2*R*,3*R*)-5,7,3′,4′-Tetra-hydroxyflavan-3-ol	$C_{15}H_{14}O_6$	290.27	E-10
(+)-(2*R*,3*S*)-5,7,3′,4′-Tetra-hydroxyflavan-3-ol	$C_{15}H_{14}O_6$	290.27	C-44
Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)cerium	$C_{44}H_{76}CeO_8$	873.20	C-45
Tetrakis(2,2,7-trimethyl-3,5-octanedionato)cerium	$C_{44}H_{76}CeO_8$	873.20	C-46
5,10,15,20-Tetrakis(3,5-bis(trifluoro-methyl)phenyl)porphyrin	$C_{52}H_{22}F_{24}N_4$	1158.73	T-23
5,10,15,20-Tetrakis(pentafluoro-phenyl)porphine	$C_{44}H_{10}F_{20}N_4$	974.55	T-24
5,10,15,20-Tetrakis(pentafluoro-phenyl)porphyrin	$C_{44}H_{10}F_{20}N_4$	974.55	T-24
Tetralin	$C_{10}H_{12}$	132.20	T-25, T-26
α-Tetralol	$C_{10}H_{12}O$	148.20	T-27, T-28
(5,7,12,14-Tetramethyl-2,3:9,10-dibenzo-[*b*,*i*][1,4,8,11]tetra azacyclo tetra-decine)nickel (II).	$C_{22}H_{22}N_4Ni$	401.15	N-64–N-66
Theobromine	$C_7H_8N_4O_2$	180.16	T-30–T-34
Theophylline	$C_7H_8N_4O_2$	180.16	T-35–T-38
9-Thiafluorene	$C_{12}H_8S$	184.26	D-18
Thiamphenicol	$C_{12}H_{15}Cl_2NO_5S$	356.22	T-39
*N*1-(2-Thiazolyl)sulfanilamide	$C_9H_9N_3O_2S_2$	255.32	S-44, S-45
2-(Thiocyanomethylthio)benzothiazole	$C_9H_6N_2S_3$	238.36	T-40

(*continued*)

Solute	Formula	MW	Data Table No.
2-(Thiocyanatomethylthio) benzo[*d*]thiazole	$C_9H_6N_2S_3$	238.36	T-40
Thioxanthen-9-one	$C_{13}H_8OS$	212.27	T-41
Thioxanthone	$C_{13}H_8OS$	212.27	T-41
9-Thioxanthone	$C_{13}H_8OS$	212.27	T-41
Thymol	$C_{10}H_{14}O$	150.22	T-42
Titanocene dichloride	$C_{10}H_{10}Cl_2Ti$	249.00	T-43
TNT	$C_7H_5N_3O_6$	227.13	T-77, T-78
α-Tocopherol	$C_{29}H_{50}O_2$	430.71	T-44–T-48
DL-α-Tocopherol	$C_{29}H_{50}O_2$	430.71	T-44–T-48
δ-Tocopherol	$C_{27}H_{46}O_2$	402.65	T-49, T-50
D-δ-Tocopherol	$C_{27}H_{46}O_2$	402.65	T-49, T-50
p-Tolyl diiodomethyl sulfone	$C_8H_8I_2O_2S$	422.02	D-56
2,3,6-Triacetyl-α-cyclodextrin	$C_{72}H_{96}O_{48}$	1729.50	C-205
2,3,6-Triacetyl-β-cyclodextrin	$C_{84}H_{112}O_{56}$	2017.75	C-206
2,3,6-Triacetyl-γ-cyclodextrin	$C_{96}H_{128}O_{64}$	2306.03	C-207
Triacontane	$C_{30}H_{62}$	422.81	T-51
Tributanoin	$C_{15}H_{26}O_6$	302.36	T-53, T-54
Tributyl Phosphate	$C_{12}H_{27}O_4P$	266.31	T-52, U-4
Tributyrin	$C_{15}H_{26}O_6$	302.36	T-53, T-54
Tricaprin	$C_{33}H_{62}O_6$	554.84	T-55
Tricaproin	$C_{21}H_{38}O_6$	386.52	T-56
Tricaprylin	$C_{27}H_{50}O_6$	470.68	T-57
Tricaprylylamine	$C_{24}H_{51}N$	353.67	T-79
Tricarbonyl(η^5-cyclopentadienyl)-manganese	$C_8H_5MnO_3$	204.06	C-212
1,1,1-Trichloro-2,2-bis(4-chloro-phenyl)ethane	$C_{14}H_9Cl_5$	354.49	B-56, D-1
1,1,1-Trichloro-2,2-bis(4-methoxy-phenyl)ethane	$C_{16}H_{15}Cl_3O_2$	345.65	M-22, P-43
2,4′,5-Trichlorobiphenyl	$C_{12}H_7Cl_3$	257.54	T-58–T-60
Tricyclo[3.3.1.1^3,7]decane	$C_{10}H_{16}$	136.23	A-19, A-20
Tridecafluorooctyl 2,5-dichlorobenzoate	$C_{15}H_7Cl_2F_{13}O_2$	537.10	T-61
Tridecanedioic acid	$C_{13}H_{24}O_4$	244.33	B-66
Tridecanoin	$C_{33}H_{62}O_6$	554.84	T-55
1-Tridecanol	$C_{13}H_{28}O$	200.36	T-62
Tridecyl alcohol	$C_{13}H_{28}O$	200.36	T-62
Tridodecanoin	$C_{39}H_{74}O_6$	639.00	T-69, T-70
Triethyl phosphate	$C_6H_{15}O_4P$	182.15	U-4
Triethylene glycol	$C_6H_{14}O_4$	150.17	T-63, T-64
Triglycerides	N/A	N/A	T-65
Triglycol	$C_6H_{14}O_4$	150.17	T-63, T-64
Trihexanoin	$C_{21}H_{38}O_6$	386.52	T-56
Trihexylamine	$C_{18}H_{39}N$	269.51	T-66
3,4,5-Trihydroxybenzoic acid methyl ester	$C_8H_8O_5$	184.15	M-39
3,4,5-Trihydroxybenzoic acid propyl ester	$C_{10}H_{12}O_5$	212.20	P-124
1,3,8-Trihydroxy-6-methyl-anthraquinone	$C_{15}H_{10}O_5$	270.24	E-8

(*continued*)

Solute	Formula	MW	Data Table No.
11β,17α,21-Trihydroxypregn-4-ene-3,20-dione	$C_{21}H_{30}O_5$	362.46	H-33
11β,17,21-Trihydroxy-1,4-pregnadiene-3,20-dione	$C_{21}H_{28}O_5$	360.44	P-109
3,4′,5-Trihydroxy-*trans*-stilbene	$C_{14}H_{12}O_3$	228.24	R-4
1,5,6-Trihydroxyxanthen-9-one	$C_{13}H_8O_5$	244.20	T-67
1,5,6-Trihydroxyxanthone	$C_{13}H_8O_5$	244.20	T-67
Triiodomethane	CHI_3	393.73	T-68
Trilaurin	$C_{39}H_{74}O_6$	639.00	T-69–T-73
Trilinolein	$C_{57}H_{98}O_6$	879.38	T-74
1,3,7-Trimethyl-2,6-dioxopurine	$C_8H_{10}N_4O_2$	194.19	C-3–C-11
1,3,3-Trimethyl-2-norbornanone	$C_{10}H_{16}O$	152.23	F-1
1,7,7-Trimethylbicyclo[2,2,1]heptan-2-one	$C_{10}H_{16}O$	152.23	C-13
2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	$C_{10}H_{16}$	136.23	P-85–P-88
1,3,3-Trimethylnorcamphor	$C_{10}H_{16}O$	152.23	F-1
1,3,7-Trimethylxanthine	$C_8H_{10}N_4O_2$	194.19	C-3–C-11
Trimyristin	$C_{45}H_{86}O_6$	723.16	T-71, T-72, T-75, T-76
1,3,5-Trinitrohexahydro-*s*-triazine	$C_3H_6N_6O_6$	222.12	C-215
2,4,6-Trinitrophenol	$C_6H_3N_3O_7$	229.10	P-84
Trinitrotoluene	$C_7H_5N_3O_6$	227.13	T-77, T-78
2,4,6-Trinitrotoluene	$C_7H_5N_3O_6$	227.13	T-77, T-78
Tri-*n*-octylamine	$C_{24}H_{51}N$	353.67	T-79
Tri-*n*-octylphosphine	$C_{24}H_{51}P$	370.64	T-80
Tri-*n*-octylphosphine oxide	$C_{24}H_{51}OP$	386.63	T-81
Trioctanoin	$C_{27}H_{50}O_6$	470.68	T-57
Trioctylamine	$C_{24}H_{51}N$	353.67	T-79
Trioctylphosphine	$C_{24}H_{51}P$	370.64	T-80
Trioctylphosphine oxide	$C_{24}H_{51}OP$	386.63	T-81, U-4
Triolein	$C_{57}H_{104}O_6$	885.43	T-82–T-86
Tripalmitin	$C_{51}H_{98}O_6$	807.32	T-72, T-73, T-76, T-87–T-90
Triphenylamine	$C_{18}H_{15}N$	245.32	T-91
Triphenylene	$C_{18}H_{12}$	228.29	A-3, T-92, T-93
Triphenylmethane	$C_{19}H_{16}$	244.33	T-94, T-95
Triphenylphosphate	$C_{18}H_{15}O_4P$	326.28	T-96
Triphenylphosphine	$C_{18}H_{15}P$	262.29	T-97, T-98
Triphenylphosphorous	$C_{18}H_{15}P$	262.29	T-97, T-98
Tris(acetylacetonato)yttrium	$C_{15}H_{21}O_6Y$	386.23	Y-1
Tris(3-bromopentane-2,4-dionato)-chromium	$C_{15}H_{18}Br_3CrO_6$	586.01	C-81
Tris(diisopropyldithiocarbamato)-rhodium	$C_{21}H_{42}N_3RhS_6$	631.87	R-6
Tris(4-fluorophenyl)phosphine	$C_{18}H_{12}F_3P$	316.26	T-99
Tris(*p*-fluorophenyl)phosphine	$C_{18}H_{12}F_3P$	316.26	T-99
Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)yttrium	$C_{15}H_3F_{18}O_6Y$	746.09	Y-2
Tris(methylthioglycolato)rhodium	$C_9H_{15}O_6RhS_3$	418.31	R-7
Tris(pentafluorophenyl)phosphine	$C_{18}F_{15}P$	532.14	T-100

(*continued*)

Solute	Formula	MW	Data Table No.
Tris(pentane-2,4-dionato)chromium	$C_{15}H_{21}CrO_6$	349.32	C-80
Tris(2,4-pentanedionato)cobalt	$C_{15}H_{21}CoO_6$	356.26	C-168
Tris(2,4-pentanedionato)gallium	$C_{15}H_{21}GaO_6$	367.05	G-1
Tris(2,4-pentanedionato)indium	$C_{15}H_{21}InO_6$	412.15	I-2
Tris(2,4-pentanedionato)iron	$C_{15}H_{21}FeO_6$	353.17	I-4, I-5
Tris(2,4-pentanedionato)manganese	$C_{15}H_{21}MnO_6$	352.27	M-3
Tris(2,4-pentanedionato)yttrium	$C_{15}H_{21}O_6Y$	386.23	Y-1
Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)iron	$C_{33}H_{57}FeO_6$	605.65	I-6
Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)rhodium	$C_{33}H_{57}O_6Rh$	652.72	R-8
Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)terbium	$C_{33}H_{57}O_6Tb$	708.74	T-4
Tris(2,2,6,6-tetramethylheptane-3,5-dionato)chromium	$C_{33}H_{57}CrO_6$	601.81	C-82
Tris(*p*-trifluoromethylphenyl)phosphine	$C_{21}H_{12}F_9P$	466.29	T-101
cis-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium	$C_{15}H_{12}CrF_9O_6$	511.24	C-83
trans-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium	$C_{15}H_{12}CrF_9O_6$	511.24	C-84
Tris(2,2,7-trimethyl-3,5-octanedionato)iron	$C_{33}H_{57}FeO_6$	605.65	I-7
Tris(2,2,7-trimethyl-3,5-octanedionato)terbium	$C_{33}H_{57}O_6Tb$	708.74	T-5
Tristearin	$C_{57}H_{110}O_6$	891.48	T-102
Tritriacontane	$C_{33}H_{68}$	464.90	T-103
Troeger's base	$C_{17}H_{18}N_2$	250.34	T-104
Tropine tropate	$C_{17}H_{23}NO_3$	289.37	A-79
L-Tryptophan	$C_{11}H_{12}N_2O_2$	204.23	T-105
Turmeric oil	N/A	N/A	T-106
Ubiquinone Q10	$C_{59}H_{90}O_4$	863.34	C-172
1-Undecanol	$C_{11}H_{24}O$	172.31	U-1
11-Undecanolactone	$C_{11}H_{20}O_2$	184.28	U-2
Undecanolide	$C_{11}H_{20}O_2$	184.28	U-2
Undecyl alcohol	$C_{11}H_{24}O$	172.31	U-1
Uracil	$C_4H_4N_2O_2$	112.09	U-3
Uranyl bis(thenoyltrifluoroacetonate) · Phosphate Complexes	$UO_2(C_8H_4F_3O_2S)_2 \cdot X$	736.40	U-4
Uranyl bis(trifluoroacetylacetonate) · Pyridine Complex	$UO_2(C_5H_4F_3O_2)_2 \cdot C_5H_5N$	655.29	U-5
Uranyl dinitrate · Tributyl phosphate Complex	$UO_2(NO_3)_2 \cdot 2(C_{12}H_{27}O_4P)$	926.67	U-6, U-7
Uranyl thenoyltrifluoroacetylacetonate · Tributyl phosphate complex	$UO_2 \cdot (C_{10}H_6F_3O_3S)_2 \cdot 2(C_{12}H_{27}O_4P)$	1329.09	U-8
Vanillic acid	$C_8H_8O_4$	168.15	V-1, V-2
Vanillin	$C_8H_8O_3$	152.15	V-3
Vegetable oil from Buriti fruit	N/A	N/A	V-4
cis-Verbenol	$C_{10}H_{16}O$	152.23	V-5
Vitamin A	$C_{20}H_{30}O$	286.45	R-5
Vitamin A Palmitate	$C_{36}H_{60}O_2$	524.87	V-6

(*continued*)

Solute	Formula	MW	Data Table No.
Vitamin C	$C_6H_8O_6$	176.12	A-70
Vitamin D_2	$C_{28}H_{44}O$	396.65	V-7, V-8
Vitamin D_3	$C_{27}H_{44}O$	384.64	V-9, V-10
Vitamin E	$C_{29}H_{50}O_2$	430.71	T-44–T-48
Vitamin K_1	$C_{31}H_{46}O_2$	450.70	V-11
Vitamin K_3	$C_{11}H_8O_2$	172.18	V-12, V-13
Water	H_2O	18.02	W-1–W-4
Wax	N/A	N/A	W-5
Wool wax	N/A	N/A	W-6
2,5-Xylenol	$C_8H_{10}O$	122.16	X-1, N-35
2,6-Xylenol	$C_8H_{10}O$	122.16	X-2
3,4-Xylenol	$C_8H_{10}O$	122.16	X-3
2,5-Xylidine	$C_8H_{11}N$	121.18	D-63
D-Xylose	$C_5H_{10}O_5$	150.13	X-4
(+)-Xylose	$C_5H_{10}O_5$	150.13	X-4
Yttrium tris(acetylacetonate)	$C_{15}H_{21}O_6Y$	386.23	Y-1
Yttrium tris(hexafluoroacetylacetonate)	$C_{15}H_3F_{18}O_6Y$	746.09	Y-2
Yttrium(III) hexafluoroacetylacetonate	$C_{15}H_3F_{18}O_6Y$	746.09	Y-2
Zinc bis(acetylacetonate)	$C_{10}H_{14}O_4Zn$	263.60	Z-1
Zinc bis(2,4-pentanedionate)	$C_{10}H_{14}O_4Zn$	263.60	Z-1
Zinc bis(trifluoroethyl)dithiocarbamate	N/A	N/A	Z-2
Zinc dibutyldithiocarbamate	N/A	N/A	Z-2
Zinc diethyldithiocarbamate	N/A	N/A	Z-2
Zinc dihexyldithiocarbamate	N/A	N/A	Z-2
Zinc dipentyldithiocarbamate	N/A	N/A	Z-2
Zinc dipropyldithiocarbamate	N/A	N/A	Z-2
Zinc dithiocarbamate complexes	N/A	N/A	Z-2
Zinc pyrrolidinedithiocarbamate	N/A	N/A	Z-2
Zopiclone	$C_{17}H_{17}ClN_6O_3$	388.81	Z-3

Introduction

CONTENTS

Fluids become supercritical when they are compressed beyond their critical pressures (P_c) and simultaneously heated beyond their critical temperatures (T_c). Supercritical fluids cannot be liquefied even with extreme compression. However, one may increase pressure to change the density of a fluid continuously from a gas-like state to a liquid-like state. Near the critical region, small changes in pressure can give rise to large changes in density (Figure 1) and Appendix A). In addition to density, diffusivity of the supercritical fluids is much higher than that of liquid solvents, and can be easily varied. For typical conditions, diffusivity in supercritical fluids is of the order of 10^{-3} cm^2/s as compared with 10^{-1} cm^2/s for gases and 10^{-5} cm^2/s for liquids. Typical viscosity of supercritical fluids is of the order of 10^{-4} g/cm-s, which is about 100-fold lower than that of liquids. The combination of high diffusivity and low viscosity provides rapid equilibration and micropore penetration of the fluid. Various recent books explain the supercritical fluid technology in depth (McHugh and Krukonis 1994; Taylor 1996; McHardy and Sawan 1998; Kiran et al. 2000; Mukhopadhyay 2000; Williams and Clifford 2000; Aria et al. 2002; York et al. 2004; Gupta and Johnston 2006).

Supercritical fluid technology has emerged as an important technique for various applications, including production of controlled drug delivery systems, powder processing, pollution prevention and remediation, methods for spray paint and coatings, crystallization processes, bioseparations, food processing, polymerizations, chemical reactions, cleaning of semiconductors and precision machinery, dyeing and dry cleaning of textiles, metal de-binding, and a variety of extractions.

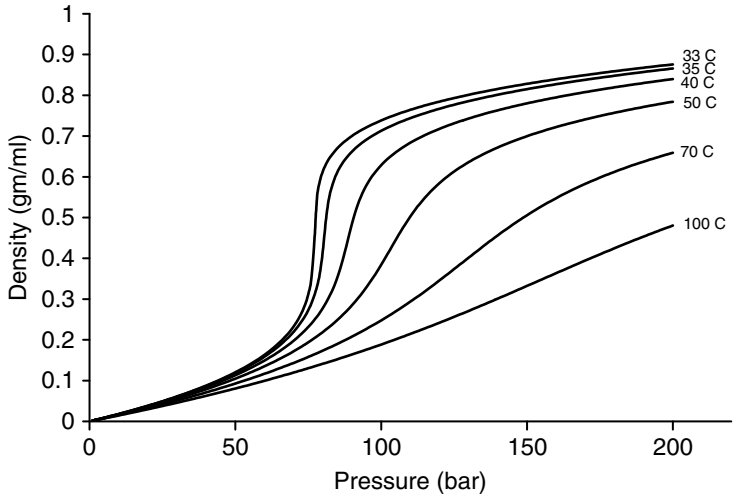


FIGURE 1 Carbon dioxide-density dependence with pressure and temperature. For density data, see Appendix A.

In many industrial applications, supercritical fluids are poised to replace the conventional solvents, mainly due to the quality and purity of the final products and environmental benefits. There are various supercritical fluids available, as listed in Table 1.

TABLE 1
Critical Constants and Safety Data for Selected Supercritical Fluids

Supercritical Fluid	T_c (K)	P_c (bar)	Safety Hazard
Ethylene	282.4	50.4	Flammable gas
Trifluoromethane (fluoroform)	299.1	48.2	
Chlorotrifluoromethane (freon 13)	301.8	38.8	
Ethane	305.4	48.8	Flammable gas
Carbon dioxide	304.1	73.8	
Dinitrogen monoxide (laughing gas)	309.6	72.4	Not combustible but enhances combustion of other substances
Sulfur hexafluoride	318.7	37.6	
Chlorodifluoromethane (HCFC 142b)	410.2	40.5	Combustible under specific conditions
Propane	369.8	42.5	Extremely flammable
Ammonia	405.4	113.0	Flammable and toxic
Dimethyl ether (wood ether)	400.0	52.4	Extremely flammable
Trichlorofluoromethane (freon 11, R 11)	471.2	44.1	
Isopropanol	508.3	47.6	Highly flammable
Cyclohexane	553.8	40.7	Highly flammable
Toluene	591.8	41.0	Highly flammable
Water	647.3	221.2	

SUPERCRITICAL CARBON DIOXIDE

Out of the fluids listed in Table 1, carbon dioxide is the supercritical fluid of choice because it is nonflammable, nontoxic, inexpensive, and has near-ambient critical temperature. Hence, much of

the attention in supercritical fluid technology has been given to carbon dioxide-based processes. Carbon dioxide (O=C=O) is a nonpolar molecule, with a small polarity due to the presence of a quadrupole moment. Supercritical carbon dioxide can be described as hydrophobic solvent with polarity comparable to that of *n*-hexane. Hence, nonpolar or light molecules easily dissolve in supercritical CO_2, whereas the polar or heavy molecules (e.g., polymers, disperse dyes, aliphatic fatty acids and their esters, aromatic acids, proteins, fish oils, metal complexes, etc.) have very poor solubilities. Some light organic compounds, either polar or nonpolar (e.g., acetone, methanol, ethanol, toluene, hexane, menthol, etc.), are used as cosolvents (also often called entrainers or modifiers) to enhance the solvating power and polarity of carbon dioxide.

Supercritical carbon dioxide has been industrially used in a variety of processes, including coffee decaffeination, tea decaffeination, and extraction of fatty acids from spent barley, pyrethrum, hops, spices, flavors, fragrances, corn oil, and color from red peppers. Other applications include polymerization, polymer fractionation, particle formation for pharmaceutical and military use, textile dyeing, and cleaning of machine and electronic parts.

SOLUBILITY IN SUPERCRITICAL CARBON DIOXIDE

Solubility is the most important criterion affecting the efficacy of most of the supercritical fluid processes. For example, solubility can have a direct impact on the rate, yield, design, and economy of the process. Depending on the process of interest, either a high solubility or extremely low solubility may be desired. For example, high solubility is required in supercritical extraction processes. On the other hand, low solubility is required for CO_2/organic solvent mixtures used in the supercritical antisolvent precipitation processes to manufacture particles (Chattopadhyay and Gupta 2001; 2002; Thote and Gupta 2005; Gupta and Kompella, 2006). Here the solubility affects yield, cost, and, most importantly, the size and morphology of the product. In the precipitation processes, nucleation is a strong function of supersaturation, which, in turn, depends on solubility. Solubility can have a remarkable effect on precipitation kinetics. For example, in the case of acetaminophen (Shekunov 1999), at 80 bar and 358 K, low solubility ($\sim 10^{-8}$ mole fraction) results in high supersaturation, high nucleation, and fast crystal growth, producing 1-–3-μm size particles. Whereas, at 250 bar and 353 K, high solubility ($\sim 10^{-5}$ mole fraction) results in low supersaturation and produces millimeter-sized acicular crystals in low yield. Similarly, in rapid expansion of supercritical solution to produce particles, solubility plays a key role (Thakur and Gupta 2005).

The variation in solvent strength of a supercritical fluid from gas-like to liquid-like values may be described qualitatively in terms of the density parameter, ρ, or the solubility parameter, δ (square root of the cohesive energy density) calculated as (Williams et al. 2004):

$$\delta^2 = \left(\frac{\Delta E}{v}\right)_T \approx \left(\frac{\partial E}{\partial v}\right)_T = T\left(\frac{\partial P}{\partial T}\right)_v - P \tag{1}$$

where E is the internal energy, and v is the molar volume. Molar volume or density of supercritical fluids is highly pressure/temperature dependent and can be varied from gas-like to liquid-like values, as shown in Figure 1. Similar characteristics are observed for plots of other density-dependent variables, such as enthalpy, entropy, viscosity, and diffusivity, versus pressure. The δ for gaseous carbon dioxide is essentially zero; whereas, the value for liquid carbon dioxide is like that of a hydrocarbon (Figure 2). At 30°C, there is a large increase in δ upon condensation from vapor to liquid. Above the critical temperature, it is possible to tune the solubility parameter continuously over a wide range, with either a small isothermal pressure change or a small isobaric temperature change. This ability to tune the solvent strength of a supercritical fluid is its unique feature, and it can be used to extract and then recover selected products. Note that density and δ are more direct measures of the solvent strength of a supercritical fluid than pressure. Solubility improves as the difference between solubility parameter of solute and supercritical CO_2 decreases.

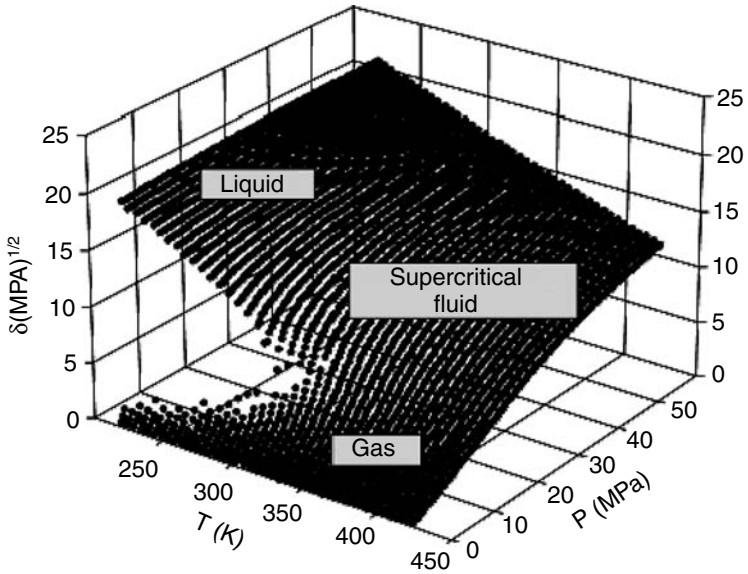


FIGURE 2 Solubility parameter of CO_2. (From Williams, L. L., Rubin, J. B., and Edwards, H. W., *Ind. Eng. Chem. Res.*, 4316, 4967–4972, 2004. With permission.)

A common feature of solubility data for single solutes dissolved in a supercritical fluid is the existence of what has been termed crossover pressure (Chimowitz and Pennisi 1986). This is a pressure around which isotherms at various near-critical temperatures tend to converge. Figure 3 shows this behavior for phenanthrene solubility in carbon dioxide. Below the crossover pressure, an isobaric increase in temperature causes a solubility decrease, so that the solute is retrograde.

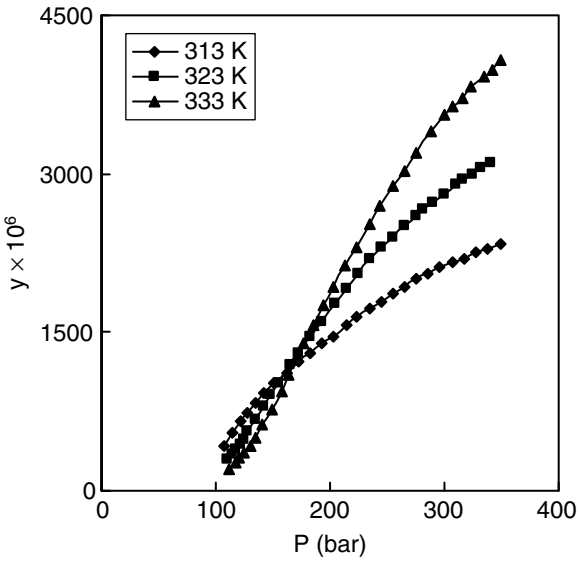


FIGURE 3 Mole fraction solubility (y) of phenanthrene in supercritical carbon dioxide versus pressure. (From Anitescu, G. and Tavlarides, L. L., *J. Supercrit. Fluids*, 10(3), 175–189, 1997.). Three isothermal lines cross at the "crossover pressure" of 165 bar.

Above the crossover pressure, the opposite effect occurs. This behavior can be understood by considering two opposing effects of temperature on solubility (Chimowitz 2005). The vapor pressure of the solid solute always increases with temperature, while the density (or solvent power) of supercritical carbon dioxide decreases. Below the crossover pressure where the compressibility is larger, the density effect dominates, and the solubility decreases with increasing temperature. At pressures above the crossover pressure, the vapor-pressure effect dominates; hence solubility increases with temperature.

MEASUREMENT OF SOLUBILITY IN SUPERCRITICAL CARBON DIOXIDE

Solubility is typically defined as mole fraction (y_2) or weight fraction (w_2) of solute in the supercritical fluid, which is in equilibrium with the bulk solute. The early solubility measurements were done in near-critical liquid carbon dioxide (61.3 bar, 298 K) by Francis (1954), in which he visually determined solubility of 261 organic compounds. A compilation of temperature and pressure ranges and the measurement method employed is provided by Bartle et al. (1991) for solubility of low volatile compounds in supercritical CO_2 published until 1989. Since then, various methods to measure solubility in supercritical fluids have been reviewed in the literature (Brunner 1994; McHugh and Krukonis 1994; Dohrn and Brunner 1995; Schneider 1998; Bristow et al. 2001; Christov and Dohrn 2002; Galia et al. 2002; Aim and Fermeglia 2003; Pauchon et al. 2004; Knox 2005). These methods can be divided into two major categories: static and dynamic.

Static Methods

In these methods, the solute is allowed to be in static contact for a long time with the supercritical fluid in order to reach equilibrium. Depending on sampling and the type of high-pressure vessel used, there are three variations: analytical, synthetic, and gravimetric.

Analytical Method

In this method, a constant volume equilibrium vessel is used in which a compound is equilibrated with a known amount of supercritical fluid. A small sample of the fluid phase is removed and analyzed for concentration of the solute. For illustration, the basic apparatus of Sung and Shim (1999) is shown in Figure 4, and a more advanced apparatus of Bristow et al. (2001) is shown in Figure 5. The sample vessel is filled with the solute, and then vacuum is applied to remove air. Known amounts of cosolvent (if needed) and carbon dioxide are then pumped into the system. The fluid is allowed to contact solute by a recirculation pump to significantly reduce the equilibration time. Typically, a magnetic pump is used, as it has a small inside volume. Once equilibrium is reached, a small volume of sample is withdrawn, using a sample loop attached to the switching valve. The sample can be sent directly to high-pressure liquid chromatography for online analysis or collected for off-line analyses using other techniques. Solubility of solute, y_2, in mole fractions is calculated as

$$y_2 = \frac{n_2}{n_1 + n_2} \approx \frac{n_2}{V\rho_1 + n_2} \tag{2}$$

where n_1 and n_2 are the moles of carbon dioxide and solute collected from the sample loop, respectively. For dilute solute concentrations, moles of carbon dioxide are approximated as the product of sample volume (V) and pure CO_2 molar density (ρ_1), as shown in Equation 2. When using a cosolvent, Equation 2 is modified so that n_1 represents the sum of CO_2 and cosolvent moles.

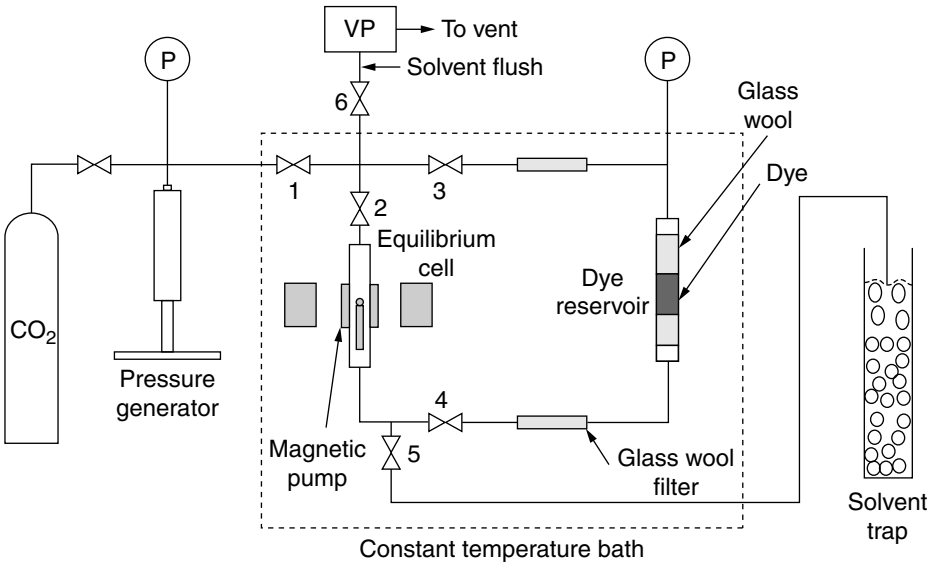


FIGURE 4 Basic apparatus for solubility measurements using a static/analytical method. VP is vacuum pump and connection for solvent flush, 1–6 are valves, and *P* comprises pressure gauges. Operation steps: (a) evacuate the entire apparatus with all valves open except for valves 1 and 5; (b) isolate the apparatus by closing valve 6; (c) deliver CO_2 from the cylinder to the apparatus at a desired pressure by operating pressure generator and opening valve 1; (d) close valve 1 and circulate CO_2 using magnetic pump for about 2 hours to reach equilibrium; (e) close valves 3 and 4 to isolate the CO_2 + solute fluid mixture; (f) open valve 5 to release the fluid mixture into the solvent trap; (g) flow solvent to flush the solute deposited onto the walls; and (h) analyze the solution in the trap for solute concentration. (From Sung, H.-D. and Shim, J.-J., *J. Chem. Eng. Data*, 44(5), 985–989, 1999.)

Synthetic Method

A variable volume view cell (Figure 6) is used for adjusting operating conditions. Typically, the vessel is equipped with a sapphire window for visual observations. A fixed amount of solute is dissolved into a known amount of supercritical fluid. Conditions are then adjusted to gradually reduce the solubility of the mixture and cause precipitation. The beginning of the precipitation, that is, the cloud point, is recorded as a measure of solubility condition. For measuring cloud point, a physical property can be used whose first derivative with respect to the modulated variables undergoes a sharp change when the phase transition occurs. For a given solute/fluid loading, many solubility points can be measured by varying temperature and pressure independently. This method does not require sample collection or its analysis. Solubility is calculated as

$$y_2 = \frac{n_2}{n_1 + n_2} \tag{3}$$

where n_1 and n_2 are the moles of carbon dioxide and solute taken in the variable-volume view cell, respectively.

The synthetic method is very convenient for determining binary-phase equilibria and phase boundaries in multicomponent mixtures. The measurements can be performed in a relatively short time. Another interesting feature of this method is the low mass of the solute required to investigate a wide range of composition. Synthetic methods cannot be used for solutes that have the same

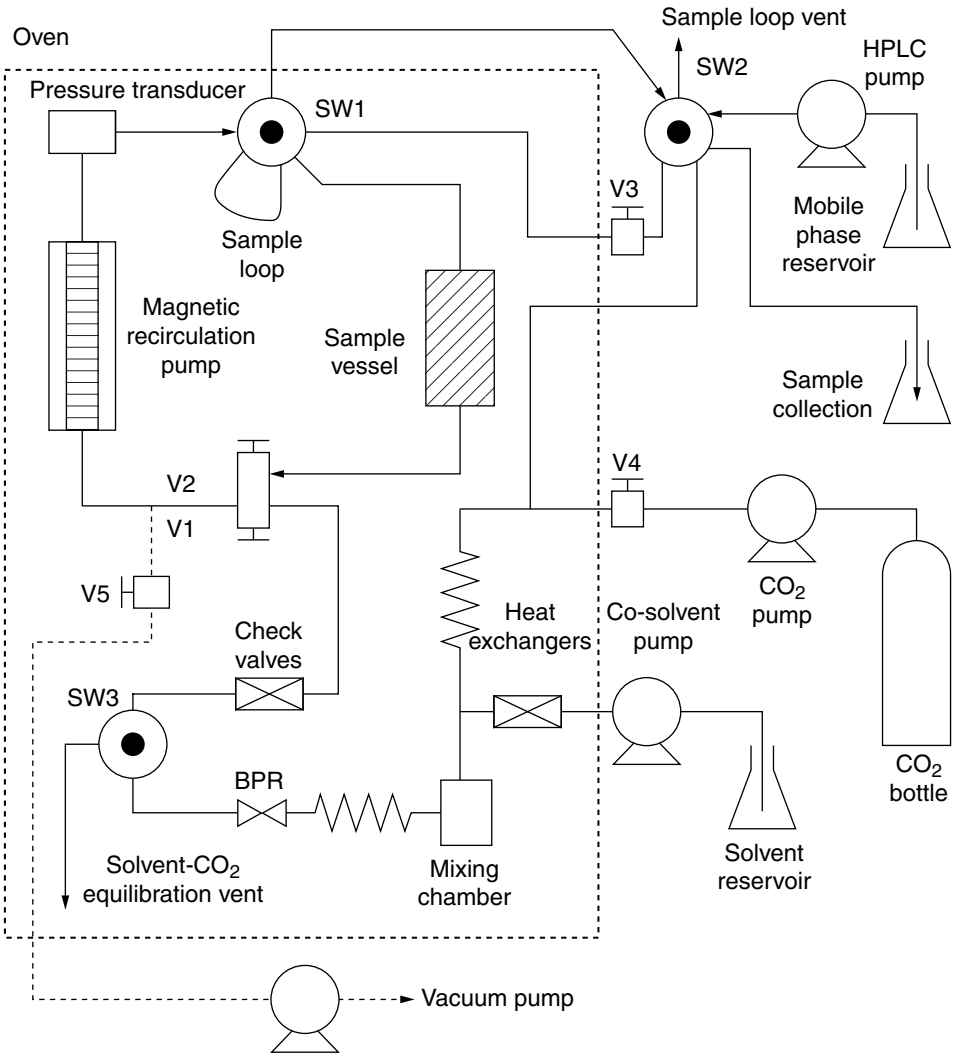


FIGURE 5 Apparatus for solubility measurements using a static/analytical method. *V* symbols represent valves to turn flows on or off, and SW represents switching valves to divert flows. (From Bristow, S., Shekunov, B. Y., and York, P., *Ind. Eng. Chem. Res.*, 40(7), 1732–1739, 2001, reproduced with permission from the American Chemical Society.)

refractive index as CO_2. Accuracy of the visual cloud point determination increased with the difference in the two refractive indices. For opaque systems or for solutes with near-CO_2 refractive indices, alternate nonvisual techniques have been proposed such as the use of transmitted x-ray (Abedi et al. 1999) for determining phase transition.

Gravimetric Method

In this method, solute is kept in a small vial inside the pressure vessel containing supercritical fluid (Sherman et al. 2000; Galia et al. 2002). The lid of the vial is such that the dissolved molecular solute can easily permeate through it, but the solute particles cannot (Figure 7). In a typical experiment, a solute of known amount is placed in a vial and the vessel is filled with a fluid.

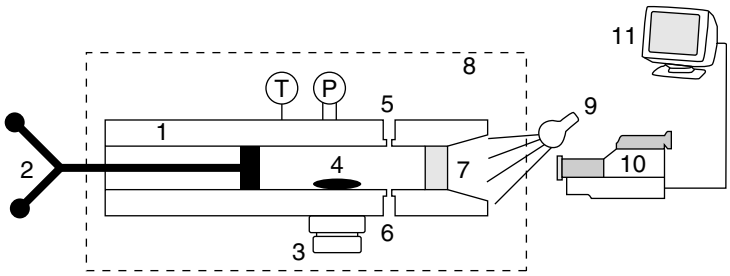


FIGURE 6 Variable-volume view cell for use in the static/synthetic method of solubility measurement. Components follow: variable volume cell (1), screw pump (2), magnetic stirrer (3), magnetic bar (4), upper sampling line (5), lower sampling line (6), sapphire window (7), thermostated bath (8), light source (9), video camera (10), and monitor (11). (From Crampton, C., Charbit, G., and Neau, E., *J. Supercrit. Fluids*, 16(1), 11–20, 1999, reproduced with permission from Elsevier.)

Then, the fluid reaches the vial, dissolves the solute, and brings it out. Over time, the bulk of the fluid reaches the same equilibrium concentration as the fluid inside the vial. The vessel is then solely depressurized, and the mass of remaining solute in the vial is gravimetrically measured. The solubility of the solute is then calculated as

$$y_2 = \frac{\Delta n_2}{\Delta n_1 + \Delta n_2} \approx \frac{\Delta n_2}{\rho_1 \Delta V + \Delta n_2} \tag{4}$$

where Δn_2 is the initial minus final moles of solute in the vial, Δn_1 is the total moles of CO_2 minus that in the vial, ΔV is the vessel minus vial volume, and ρ_1 is the molar density of CO_2.

Although the method is relatively simple, it can be effectively used only for solids that exhibit solubility greater than 10^{-3} mole fraction, that do not melt under the experimental conditions, and that absorb a negligible amount of carbon dioxide. The modification by Galia et al. (2002) extends this method to the solids with solubility of the order of 10^{-5} mole fraction. However, the drawback

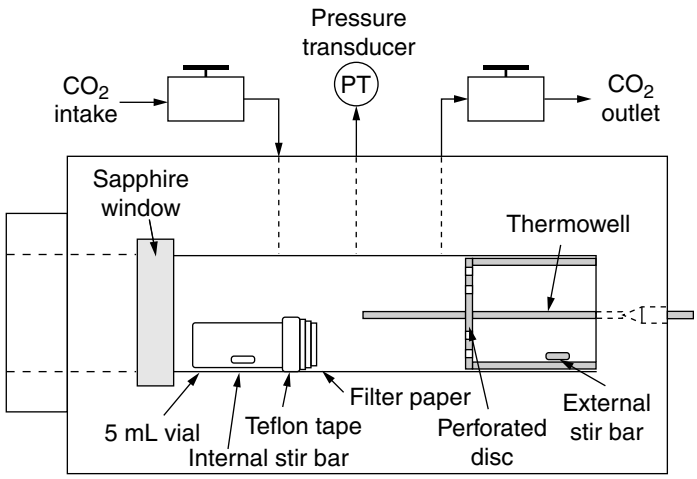


FIGURE 7 Pressure vessel for use in static/gravimetric method. (From Sherman, G., Shenoy, S., Weiss, R. A., and Erkey, C., *Ind. Eng. Chem. Res.*, 39(3), 846–848, 2000, reproduced with permission from the American Chemical Society.)

of the need of excessive time required to obtain equilibrium persists. This method has not been widely adopted due to low accuracy.

In the static methods, inaccuracies may arise due to leaks from a large number of valves and fittings. Hence, care must be taken to ensure a leak-proof apparatus. In addition, errors may also arise from the multiple samplings, especially when data at multiple pressures and temperatures are collected from a single solute/carbon dioxide loading. Withdrawing a large sample from the equilibration cell can cause a considerable pressure drop, which disturbs the phase equilibrium significantly. In-line analysis can overcome the problem due to sample withdrawals. Ultraviolet, visible, and near-infrared spectroscopies have been successfully used for this in-line analysis of solute concentration (Haarhaus et al. 1995; Tuma and Schneider 1999; Wagner et al. 1999). A sectional drawing of a spectroscopic high-pressure cell of Wagner et al. (1999) is shown in Figure 8.

Dynamic Method

In this method, the vessel is filled with a solute, and a supercritical fluid continuously flows through the vessel. Mild flow rate is used so that the outlet stream is assumed to reach equilibrium, which is then analyzed for the solute concentration by chromatographic, spectroscopic, gravimetric, dielectric, and other techniques. The apparatus used by Bristow et al. (2001) is shown in Figure 9. Here, solute is filled in the sample vessel. Continuous flows of supercritical fluid or a fluid mixture with cosolvent are maintained. For on-line analysis, such as using UV detector, the fluid mixture is bypassed directly to the analyzer for baseline correction, and then the fluid is allowed to pass through the sample vessel. For off-line analysis, the sample is collected in the solvent or cold trap for a given period of time (t), and then analyzed for solute amount. Solubility is calculated as

$$y_2 = \frac{n_2}{n_1 + n_2} = \frac{n_2}{Q_1 \rho_1 t + n_2} \tag{5}$$

where n_1 and n_2 are the moles of carbon dioxide and solute collected in time t, respectively, Q_1 is volumetric flow rate of carbon dioxide, and ρ_1 is molar density of carbon dioxide, both at the same conditions (typically, back-pressure regulator exit conditions).

Benefits of dynamic methods can be summarized as follows:

- The apparatus can be assembled from easily available parts.
- The sampling procedure is simple.
- A large amount of data can be obtained in a short time.
- In addition to equilibrium, fractionation data can be obtained.
- Carbon dioxide flow measurement can be done with a simple gas flow meter at the exit.

Shortcomings of the dynamic methods include:

- A major factor that affects the dynamic method is the mass-transfer rate between fluid and solute. There is always a possibility that the solute concentration has not reached its equilibrium value. Hence, experiments should be done by further increasing the residence time of the fluid, to ascertain that the equilibrium has been reached. The mass transfer rate can change over time if the supercritical carbon dioxide causes agglomeration of the solute particles, or the overall particle surface area is reduced by dissolution of small particles in early experimental runs. To improve mass transfer by having a high surface area, the solute is typically coated onto silica beads (e.g., 300 μm diameter) before being loaded into the sample vessel.
- Heavy solutes can clog the exit restrictor or metering valve that may cause solute hold-up, resulting in a lower amount of solute collected in the trap than the equilibrium amount. In fact, most nonreproducible solubilities may be attributed to erratic flow due to a plugged restrictor.

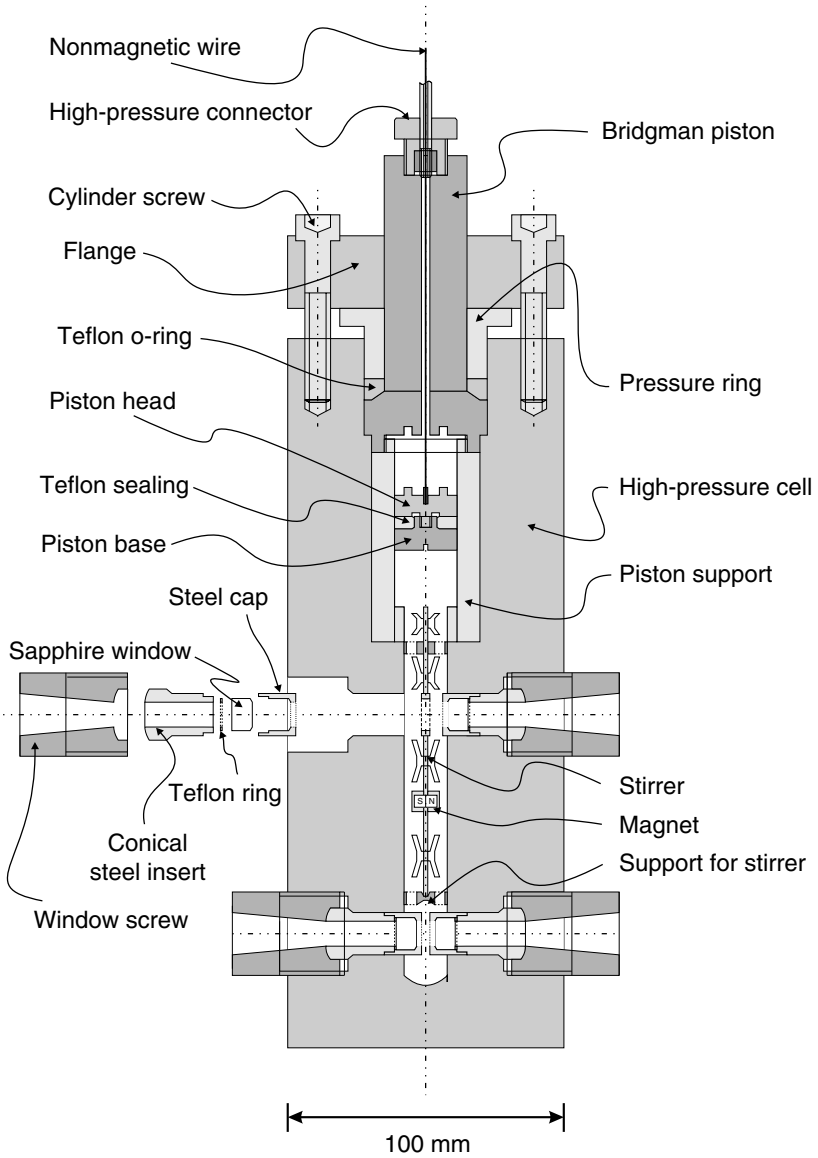


FIGURE 8 Sectional drawing of the spectroscopic high-pressure cell. (From Wagner, B., Nishioka, M., Tuma, D., Maiwald, M., and Schneider, G. M., *J. Supercrit. Fluids*, 16(2), 157–165, 1999. With permission.)

- Entrainment of solute droplets or solid fine particles can occur at high flow rates, resulting in more solute collection in the trap than the equilibrium amount.
- At high pressures, if the density of supercritical carbon dioxide is higher than the solute, the solute can float and be pushed out of the column, resulting in much higher solute collection in the trap compared to the equilibrium amount.
- When solute mixtures are used, care must be taken so as not to deplete one of the components.
- If the solute phase undergoes phase transition, it can remain undetected unless a sapphire solute vessel is used.

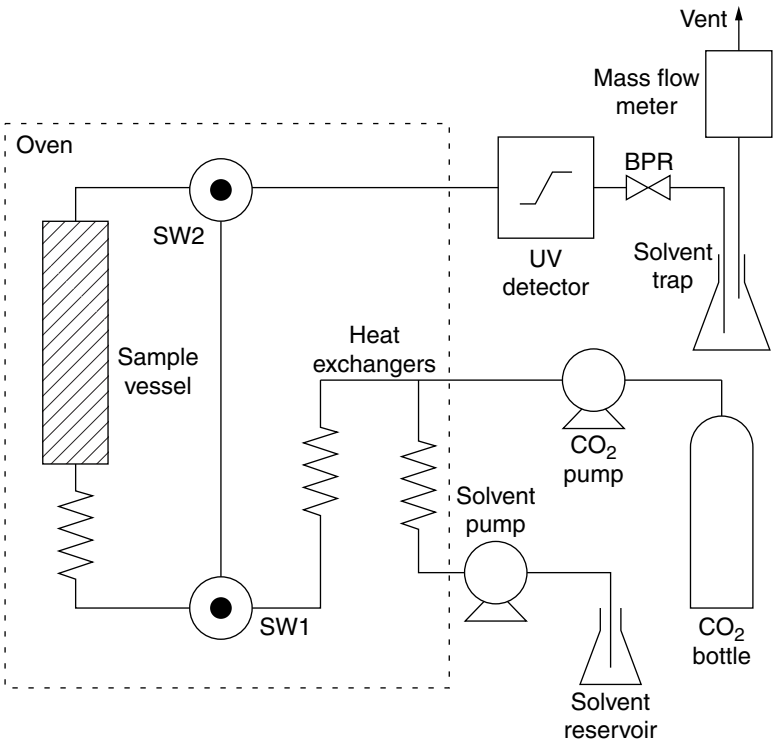


FIGURE 9 Apparatus for the determination of solubility using a dynamic method. BPR, back pressure regulator to maintain constant pressure in system; SW, switching valves to divert flows. (From Bristow, S., Shekunov, B. Y., and York, P., *Ind. Eng. Chem. Res.*, 40(7), 1732–1739, 2001, reproduced with permission from the American Chemical Society.)

MODELING OF SOLUBILITY IN SUPECRITICAL CARBON DIOXIDE

Modeling with Equation of States

The solubility increases with increase in pressure at a fixed temperature, owing to enhanced solvation due to greater attractive forces between the solute and carbon dioxide. A fundamental relationship for phase equilibrium (Prausnitz et al. 1999) can be used to relate fugacities of the solute in the solid and fluid phases as follows:

$$f_2^s = f_2^v \tag{6}$$

where f with superscript s stands for solid phase and v, for the supercritical fluid phase. For the supercritical fluid phase, fugacity is written as a function of solute mole fraction (y_2) and fugacity coefficient (ϕ_2):

$$f_2^v = y_2 \phi_2 P \tag{7}$$

When the solid phase is considered a pure phase, fugacity in the solid phase can be written as

$$f_2^s = P_2^s \phi_2^s \exp\left(\int_{P_2^s}^{P} \frac{v_2^s}{RT} dP \right) \tag{8}$$

where T is temperature, P is pressure, v_2^s is the molar volume of the solid solute, P_2^s is vapor pressure of the solid, and R is gas constant (8.314 J/molK). Due to the low vapor pressures, the values of ϕ_2^s can be taken unity for most solutes that do not have a strong tendency of association. In addition, due to the incompressibility of the solids, values of v_2^s can be assumed to be pressure independent. Hence, the solubility of a solid solute (y_2) in CO_2 fluid can be written as

$$y_2 = \frac{P_2^s}{P}\left[\frac{1}{\phi_2}\exp\left(\frac{v_2^s(P-P_2^s)}{RT}\right)\right] \tag{9}$$

where $\frac{1}{\phi_2}\exp\left(\frac{v_2^s(P-P_2^s)}{RT}\right)$ is termed as the enhancement factor and P_2^s/P is the solubility in the ideal gas. The most important term in the above equation is ϕ_2, which can be far from unity and thus responsible for enhancement factor of as high as 1000 or even higher.

The fugacity of the solute in fluid phase (ϕ_2) can be calculated from (Prausnitz et al. 1999):

$$RT\ln\phi_2 = \int_{\infty}^{v}\left[\left(\frac{\partial P}{\partial n_2}\right)_{T,v,n_1} - \frac{RT}{v}\right]\mathrm{d}v - RT\ln\left(\frac{Pv}{RT}\right) \tag{10}$$

where n_2 is the number of moles of solute, n_1 is the number of moles of CO_2, and v is the molar volume of the mixture. A suitable equation of state can be used to perform the integration and evaluate v. A popular equation of state is the one developed by Peng and Robinson (1976) using interaction parameters a and b:

$$P = \frac{RT}{v-b} - \frac{a}{v(v+b)+b(v-b)} \tag{11}$$

From Equation 11, the equation to evaluate fugacity coefficient ϕ_2 is derived as

$$\begin{aligned}\ln\phi_2 = {} & \frac{b_2}{b}\left(\frac{Pv}{RT}-1\right) - \ln\left(\frac{P(v-b)}{RT}\right) \\ & - \frac{a}{2\sqrt{2}bRT}\left(\frac{2(y_1\sqrt{a_1a_2}(1-k_{12})+y_2a_2)}{a} - \frac{b_2}{b}\right)\ln\left(\frac{v+2.414b}{v-0.414b}\right)\end{aligned} \tag{12}$$

where b_2 and a_2 are size and energy parameters for pure component 2. Similarly, for component 1, they are given as

$$b_1 = 0.07780\frac{RT_{c1}}{P_{c1}}; \qquad b_2 = 0.07780\frac{RT_{c2}}{P_{c2}} \tag{13}$$

$$a_1 = 0.45724\frac{(RT_{c1})^2}{P_{c1}}\left[1+(0.37464+1.54226\omega_1-0.26992\omega_1^2)(1-\sqrt{T/T_{c1}})\right]^2 \tag{14}$$

$$a_2 = 0.45724\frac{(RT_{c2})^2}{P_{c2}}\left[1+(0.37464+1.54226\omega_2-0.26992\omega_2^2)(1-\sqrt{T/T_{c2}})\right]^2 \tag{15}$$

Mixture, size, and energy parameters can be evaluated using van der Waals one-fluid mixing rules and usual combining rules with binary parameters, as in

$$a = y_1^2a_1 + 2y_1y_2\sqrt{a_1a_2}(1-k_{12}) + y_2^2a_2; \qquad b = y_1^2b_1 + y_1y_2(b_1+b_2)(1-c_{12}) + y_2^2b_2 \tag{16}$$

where c_{12} and k_{12} are adjustable parameters due to solute-CO_2 interactions that are not accounted for. For evaluation of parameters, various nonquadratic mixing rules are also available (Prausnitz et

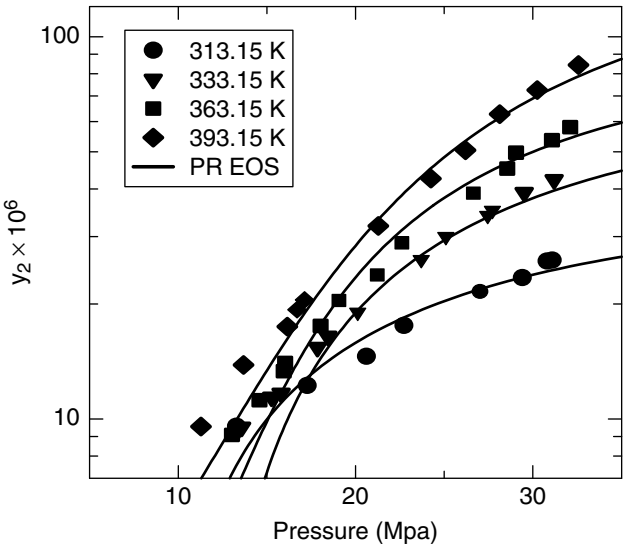


FIGURE 10 The solubility of C. I. Disperse Orange 30 dye in supercritical carbon dioxide as a function of pressure. Lines are calculated with Peng-Robinson equation of state (Equation 12). (From Baek, J.-K., Kim, S., Lee, G.-S., and Shim, J.-J., *Korean J. Chem. Eng.*, 21(1), 230–235, 2004.)

al. 1999; Sandler 1994). One example for the solubility of a dispersed dye calculated by using the above equation is shown in Figure 10 (Baek et al. 2004).

Simple Density Correlation of Solubility Data

Solubility increases with pressure at a constant temperature. As mentioned earlier, solubility behavior appears complex. For example, solubility isotherms intersect each other as shown in Figure 11. However, the complexity disappears when log-scale solubility isotherms are plotted versus density (Kumar and Johnston 1988; Bartle et al. 1991; Shim and Johnston 1991; Özcan et al. 1997; Mendez-Santiago and Teja 1999). Bartle et al. (1991) and Özcan et al. (1997) derived an empirical equation for poor-solubility solutes correlating a modified enhancement factor (yP/P_{ref}) with fluid density, together with a term to correct the effect of temperature. Fat'hi et al. (1998) Mendez-Santiago and Teja (1999) derived a semiempirical equation from the theory of Chrastil (1982) and Levelt Sengers (1991), respectively, to correlate the logarithm of solute concentration with fluid density.

Kumar and Johnston (1988) derived the semilog and the log–log relationship between solubility and density that can explain the near-linear behavior. Sung and Shim (1999) modified Kumar and Johnston's equations into simpler forms that are similar to those of Fat'hi et al. (1998) and Özcan et al. (1997):

$$\ln y = A + B/T + C\rho_1 \tag{17}$$

$$\ln y = A' + B'/T + C'\ln \rho_1 \tag{18}$$

where y is the mole fraction solubility, T is the absolute temperature (K), ρ_1 is the molar density of fluid (mol/L), and A, B, C, A', B', and C' are constants specific to the given solute. Using above relationship, Sung and Shim (1999) obtained linear, parallel-solubility isotherms from the semilog plots (Figure 12). Kumar and Johnston (1988) showed that the ratio of the solute's partial molar volume in the supercritical fluid and the isothermal compressibility of the fluid (κ) is not a constant but a function of temperature, making the constant C' a function of T. Therefore, the constant A' in

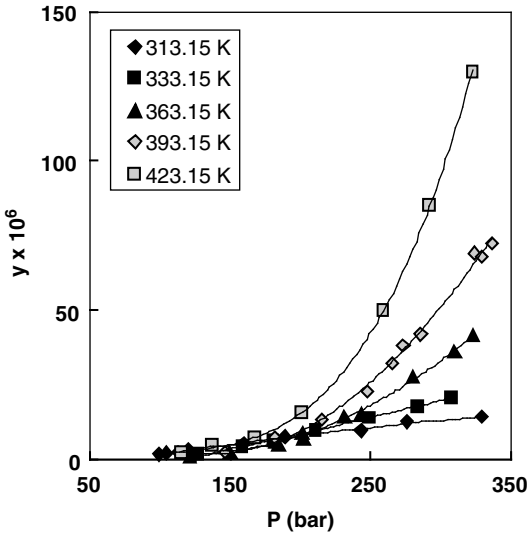


FIGURE 11 Complex behavior of solubility of C. I. Disperse Red 60 dye versus pressure. Lines are best fits. (From Sung, H.-D. and Shim, J.-J., *J. Chem. Eng. Data*, 44(5), 985–989, 1999.)

Equation 19 may be expressed as a function of temperature, resulting in the following equation:

$$\ln y = a + b/T + (c + d/T)\ln \rho_1 \tag{19}$$

where a, b, c and d are constants. The solubility isotherms in the log–log plot are linear but the slopes decrease with temperature as shown in Figure 13. The semilog relationship with three

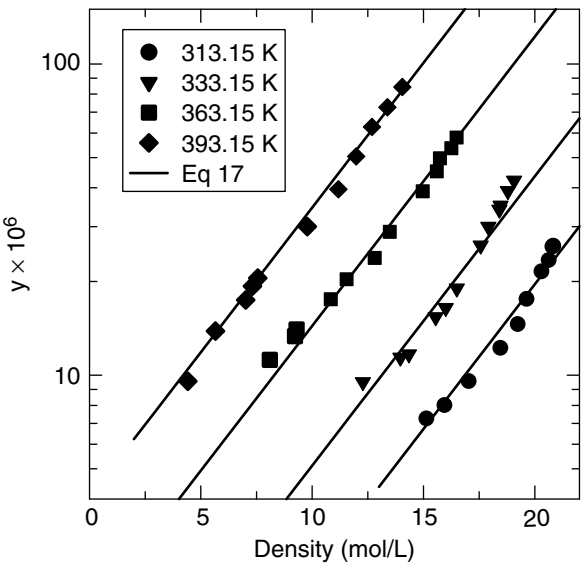


FIGURE 12 Linear behavior of solubility of C. I. Disperse Orange 30 dye (in logarithm scale) versus density. Lines are those correlated with Equation 17. (From Baek, J.-K., Kim, S., Lee, G.-S., and Shim, J.-J., *Korean J. Chem. Eng.*, 21(1), 230–235, 2004.)

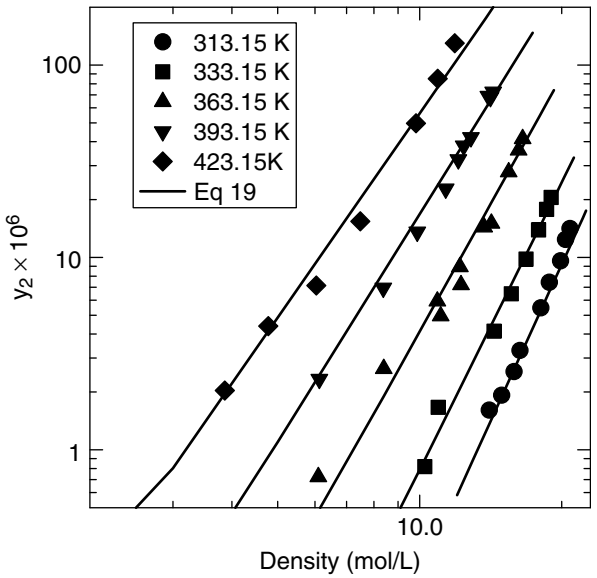


FIGURE 13 Solubility isotherms of C. I. Disperse Red 60 dye with varying slopes with temperature in supercritical carbon dioxide. Lines are correlated with Equation 19. (From Sung, H.-D. and Shim, J.-J., *J. Chem. Eng. Data*, 44(5), 985–989, 1999.)

constants is obviously simpler than the log–log relationship with four constants. However, either equation can be used to predict solubility of the sparingly soluble solutes at densities between 3 and 20 mol/L without a large error. Although the exact density for extremum depends on the type of solutes, a solubility minimum generally occurs at a density lower than 3 mol/L and a maximum above 15 mol/L. This interesting behavior has been analyzed by Kurnik and Reid (1981) and verified experimentally by Swaid et al. (1985), Swidersky et al. (1996), and Kraska et al. (2002).

In addition to the two general modeling approaches discussed above, there are numerous efforts published in the literature that are not discussed here. Variations have come about due to the use of different equations of state, by accounting for specific interactions, and by using molecular modeling.

This book provides a compilation of the published data on solubility in supercritical carbon dioxide. Data are presented in both tabular and graphical formats. Extrapolation of the data can be performed using the above correlations, that is, the model parameters can be regressed to the available data and then a prediction is made for extended conditions. In the graphs, smooth lines connecting data points are drawn as visual aids; these lines are not results of any model correlations.

GUIDE TO TABLES AND GRAPHS

This compilation includes published data from the early 1960s to 2004. The data are presented here in the form of 1217 tables, covering 783 different compounds. Any misprinted solubility data have been identified by drawing them or by comparing with the graphs in the same source or with those in other sources. In the case of inconsistent data, we contacted original authors for confirmation of the data. When confirmation was not received, we corrected the data using figures and/or tables in the same source or from the author's other publications. When the data in the source article are presented only in graphical form, especially in a logarithmic plot with a small span, we contacted authors to obtain the original numerical data. If the original data were not received, we extracted the data from the graphs by digitizing them using a drawing program. Furthermore, any inaccuracy in the names, molecular formula, and molecular weight in the sources was checked

with SciFinder Scholar (from Chemical Abstract Services) and various other sources. For metal complexes, complex formulas and formula weights (FW) are provided. Instead of SI units, we selected more popular units such as bar, grams per kilogram, and moles per liter for pressure, mass and molar solubilities, and density of fluid, respectively. However, temperature is provided in K.

Although solubility data are reported in various forms such as y, w, M, S, or W (see Abbreviations listing for details). In this book, solubility data are presented as mole fraction solubility, $y \times 10^6$, for easy comparison of the solubilities. Therefore, the molar or mass solubility, including M, S, or W, were converted to y with known MW or FW of the compound. For materials such as polymers or mixtures whose molecular weights are not known, the solubility (M, S, or W) in the source was converted to the mass fraction solubility, $w \times 10^6$.

Arrangement of Tables and Graphs

The tables are arranged alphabetically by compound name. When multiple tables are available for the same compounds, the tables for solubility in pure CO_2 appear first, followed by those in cosolvent-modified CO_2. The tables for pure CO_2 are arranged in the order of the first author's name, while the tables for the cosolvent-modified CO_2 are arranged by the name of the cosolvents. Each table consists of three to five columns, including those for temperature (T), pressure (P), the name and amount of cosolvent (if any), the molar solubility (M) or mass solubility (S or W) (if any), and the mole fraction solubility (y) or mass fraction solubility (w). When temperatures are the same, subsequent temperature values are omitted in each row block, as it is the same as the temperature at the top row of the block. The data in graphical form are provided as a visual aid and placed on the right side of corresponding tables. Here, mole fraction solubility or weight fraction solubility is plotted versus pressure. When possible, smooth curves through the data points are shown as a visual aid. The number of significant figures for the solubility data has been kept to less than four, considering experimental uncertainty.

Synonyms

Chemical compounds typically have several different names. In this book, synonyms have been added to each compound for the convenience of readers with diverse backgrounds. These compound synonyms were chosen from SciFinder Scholar, and by referring to CrossFire, ChemDraw, the Aldrich catalogue, and chemistry faculty members for difficult names.

Carbon Dioxide Density

The density data of carbon dioxide was obtained from the National Institute of Standards and Technology website for thermophysical properties (http://webbook.nist.gov/chemistry, July 2005). For CO_2, this source employs Span and Wagner (1996) for the calculation of PVT properties. For the convenience of readers, pure CO_2 density, covering both one phase and two phases, is provided in Appendix A (Table A.1–Table A.3 and Figure A.1) for temperatures in the range from the triple point 216.59 (the trible point of CO_2) to 1073.15 K, and pressures in the range of 1 to 2000 bar.

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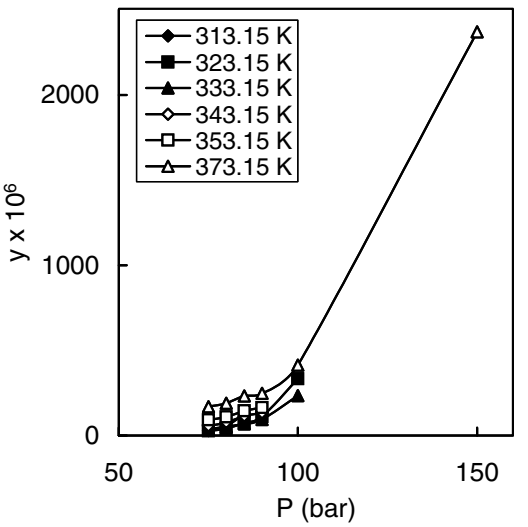
1 Solubility Data A

Acenaphthene ($C_{12}H_{10}$; MW=154.21) **[A-1]**

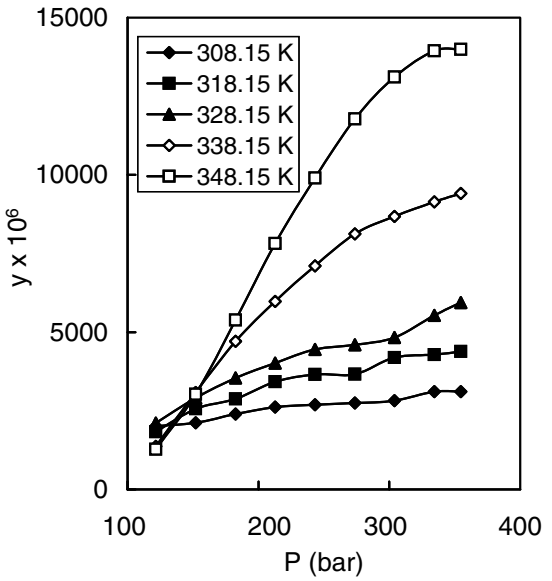
T (K)	P (bar)	y x 10^6
313.15	75	29.4
	80	56.1
	85	127.0
323.15	75	27.9
	80	41.2
	85	73.7
	90	111.0
	100	334.0
333.15	75	38.1
	80	50.7
	85	69.1
	90	94.2
	100	234.0
343.15	75	56.6
	80	77.5
	85	114.0
	90	134.0
353.15	75	91.8
	80	110.0
	85	146.0
	90	164.0
373.15	75	170.0
	80	190.0
	85	233.0
	90	248.0
	100	413.0
	150	2370.0



Synonym: 1,2-Dihydroacenaphthylene
Source: Lou, X.; Janssen, H.-G.; Cramers, C. A. *J. Chromatogr. A* (1997),785(1-2), 57-64.

Acenaphthene ($C_{12}H_{10}$; MW=154.21) **[A-2]**

T (K)	P (bar)	y x 10^6
308.15	121.6	2006
	152.0	2122
	182.4	2393
	212.8	2622
	243.2	2693
	273.6	2745
	304.0	2818
	334.4	3112
	354.6	3105
318.15	121.6	1833
	152.0	2560
	182.4	2877
	212.8	3424
	243.2	3657
	273.6	3661
	304.0	4193
	334.4	4286
	354.6	4390
328.15	121.6	2106
	152.0	2902
	182.4	3541
	212.8	4015
	243.2	4451
	273.6	4601
	304.0	4830
	334.4	5536
	354.6	5943
338.15	121.6	1369
	152.0	3083
	182.4	4712
	212.8	5982
	243.2	7110
	273.6	8123
	304.0	8680
	334.4	9146
	354.6	9410
348.15	121.6	1277
	152.0	3029
	182.4	5381
	212.8	7818
	243.2	9905
	273.6	11781
	304.0	13112
	334.4	13947
	354.6	13995

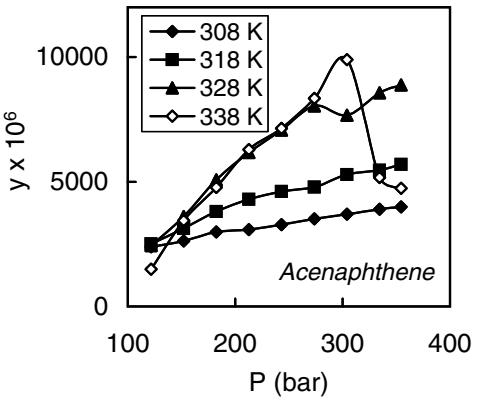


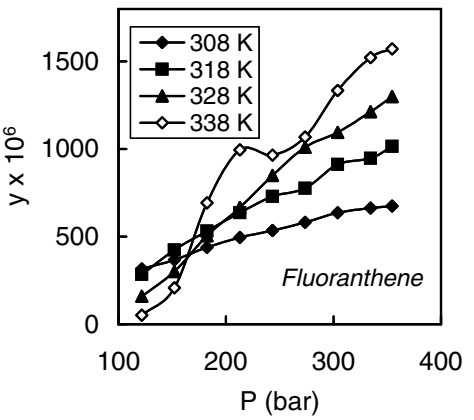
Synonym: 1,2-Dihydroacenaphthylene
Source: Yamini, Y.; Bahramifar, N., *J. Chem. Eng. Data* (2000), 45(1), 53-56.

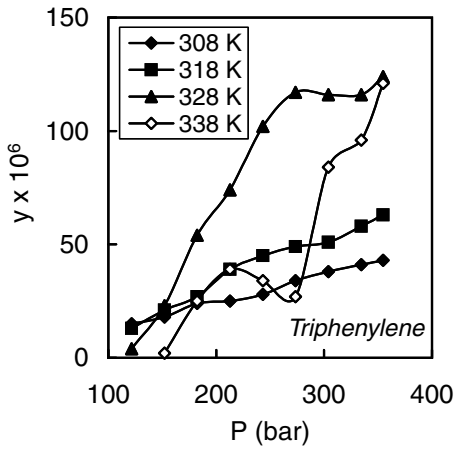
Acenaphthene (1) + Fluoranthene (2) + Triphenylene (3) Mixture **[A-3]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$	$y_3 \times 10^6$
308	121.6	2395	316	15
	152.0	2622	368	18
	182.4	2984	438	24
	212.8	3079	495	25
	243.2	3283	536	28
	273.6	3517	582	34
	304.0	3704	636	38
	334.4	3902	663	41
	354.6	3991	674	43
318	121.6	2507	284	13
	152.0	3126	423	21
	182.4	3811	532	27
	212.8	4290	637	39
	243.2	4614	729	45
	273.6	4781	776	49
	304.0	5284	912	51
	334.4	5460	948	58
	354.6	5702	1016	63
328	121.6	2445	160	4
	152.0	3608	301	23
	182.4	5081	505	54
	212.8	6180	666	74
	243.2	7069	850	102
	273.6	8042	1010	117
	304.0	7667	1096	116
	334.4	8567	1214	116
	354.6	8880	1299	124
338	121.6	1492	52	N/A
	152.0	3440	208	2
	182.4	4769	693	25
	212.8	6297	995	39
	243.2	7143	966	34
	273.6	8343	1068	27
	304.0	9898	1334	84
	334.4	5172	1523	96
	354.6	4737	1573	121

Source: Yamini,Y.; Bahramifar,N. *J. Chem. Eng. Data* (2000), 45(6), 1129-1132.

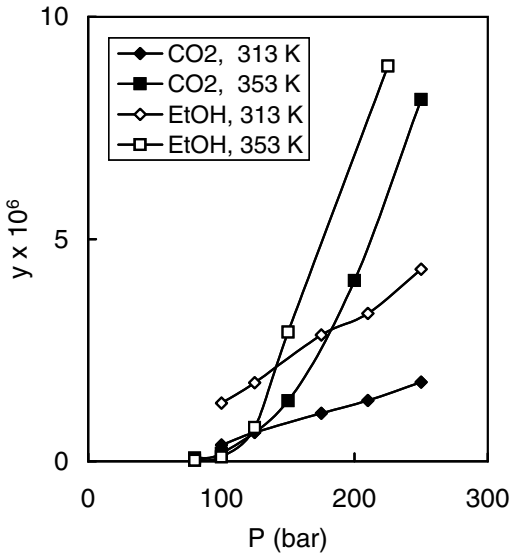






Acetaminophen ($C_8H_9NO_2$; MW=151.16) **[A-4]**

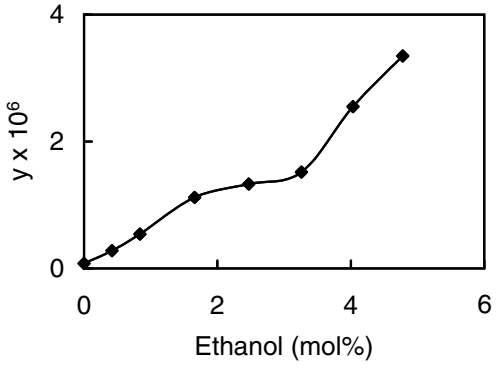
T (K)	P (bar)	Ethanol[1] (mol%)	y[2] x 10^6
313	100	0	0.370
	125	0	0.650
	175	0	1.080
	210	0	1.370
	250	0	1.780
	100	0.85	1.310
	125	0.85	1.770
	175	0.85	2.840
	210	0.85	3.330
	250	0.85	4.320
353	80	0	0.072
	100	0	0.180
	150	0	1.360
	200	0	4.070
	250	0	8.140
	80	0.85	0.022
	100	0.85	0.098
	125	0.85	0.760
	150	0.85	2.910
	225	0.85	8.890



1: Cosolvent in CO_2.
2: Measured by off-line dynamic method.
Synonyms: N-(4-Hydroxyphenyl)acetamide; 4'-Hydroxyacetanilide
Source: Bristow, S.; Shekunov, B. Y.; York, P. *Ind. Eng. Chem. Res.* (2001), 40(7), 1732-1739.

Acetaminophen ($C_8H_9NO_2$; MW=151.16) **[A-5]**

T(K)	P(bar)	Ethanol[1] (mol %)	y[2] x 10^6
313	250	0.00	0.079
		0.42	0.280
		0.84	0.540
		1.66	1.120
		2.47	1.330
		3.26	1.520
		4.03	2.550
		4.78	3.350

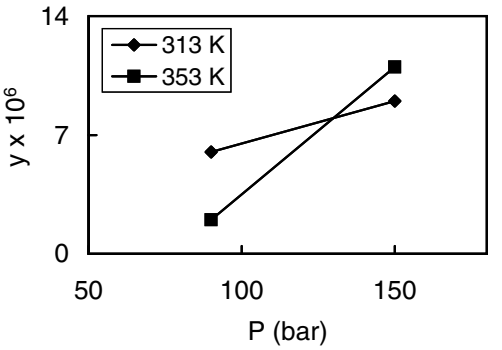


1: Cosolvent in CO_2.
2: In the original article the solubility is written in "mol" but the primary author confirmed it "mole fraction".
Synonyms: N-(4-Hydroxyphenyl)acetamide; 4'-Hydroxyacetanilide
Source: Bristow, S.; Shekunov, B. Y.; York, P. *Ind. Eng. Chem. Res.* (2001), 40(7), 1732-1739.

Acetaminophen ($C_8H_9NO_2$, MW=151.16) **[A-6]**

T (K)	P (bar)	y x 10^6
313	90	6
	150	9
353	90	2
	150	11

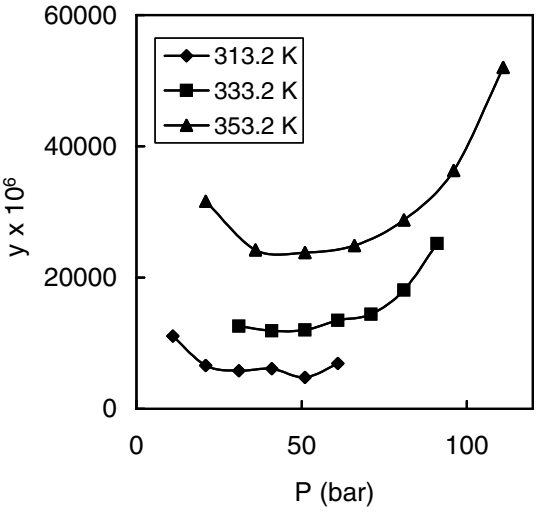
Synonyms: N-(4-Hydroxyphenyl)acetamide; 4'-Hydroxyacetanilide
Source: Shekunov, B. Y.; Bristow, S.; Chow, A. H. L.; Cranswick, L.; Grant, D. J. W.; York, P. *Cryst. Growth Des.* (2003), 3(4), 603-610.



Acetic acid ($C_2H_4O_2$; MW=60.05) **[A-7]**

T (K)	P (bar)	y x 10^6
313.2	11	11100
	21	6600
	31	5800
	41	6100
	51	4800
	61	6900
333.2	31	12600
	41	11900
	51	12000
	61	13500
	71	14400
	81	18100
	91	25200
353.2	21	31600
	36	24200
	51	23800
	66	24900
	81	28800
	96	36300
	111	52000

Source: Bamberger, A.; Sieder, G.; Maurer, G. *J. Supercrit. Fluids* (2000), 17(2), 97-110.

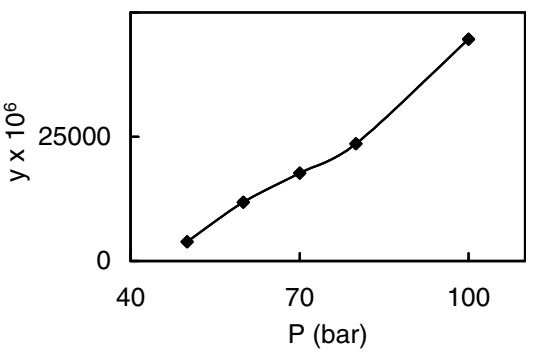


Acetone (C_3H_6O; MW=58.08) **[A-8]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
313	50	1	3890
	60	4	11800
	70	8	17700
	80	15	23600
	100	64	44600

1: Calculated from M.

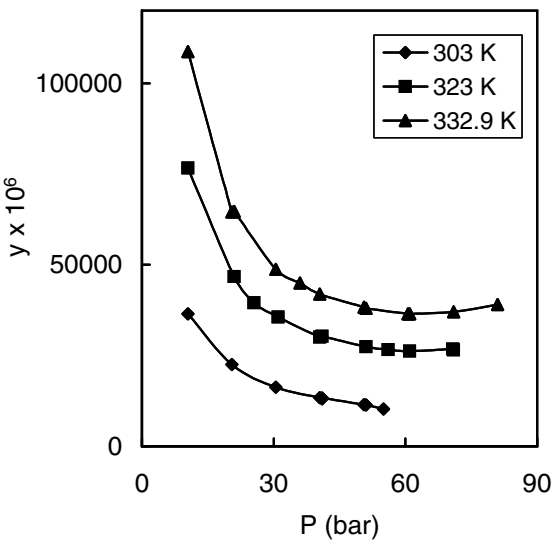
Source: Fedotov, A. N.; Simonov, A. P.; Popov, V. K.; Bagratashvili, V. N. *J. Phys. Chem. B* (1997),101(15), 2929-2932.



Acetone (C_3H_6O; MW=58.08) **[A-9]**

T(K)	P(bar)	y x 10^6
303	10.5	36500
	20.5	22500
	30.5	16300
	40.5	13400
	41.0	13100
	41.0	13300
	50.6	11500
	51.0	11400
	55.0	10300
323	10.5	76600
	21.0	46700
	25.5	39500
	31.0	35600
	40.5	30100
	41.0	30300
	51.0	27400
	56.1	26600
	61.0	26200
	70.8	26800
	71.0	26500
332.9	10.5	108700
	20.5	64500
	21.0	64700
	30.5	48700
	36.0	45000
	40.5	41900
	50.6	38300
	51.0	38000
	60.6	36500
	61.0	36500
	71.0	37000
	81.0	39000

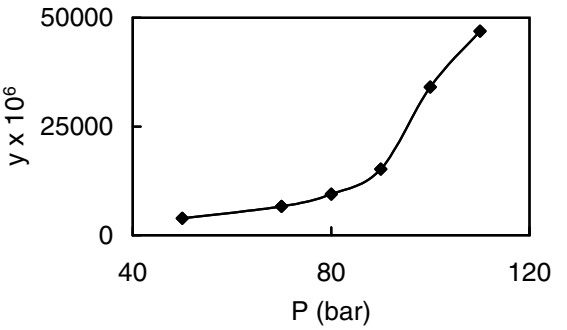
Source: Bamberger, A.; Maurer, G. *J. Chem. Thermodyn.* (2000), 32(5), 685-700.



Acetonitrile (C_2H_3N; MW=41.05) **[A-10]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
313	50	1	3890
	70	3	6650
	80	6	9450
	90	17	15200
	100	49	34100
	110	73	46900

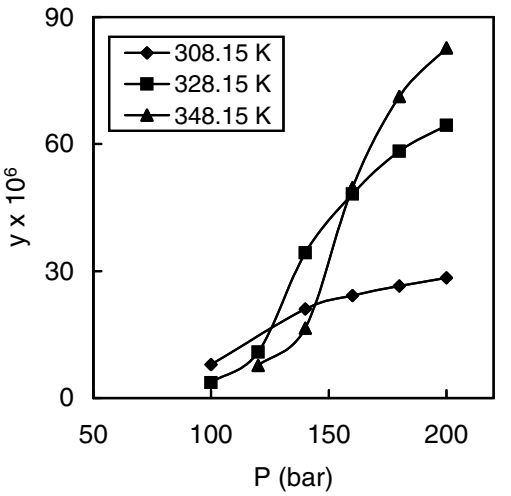
1: Calculated from M.
Synonym: Methyl cyanide
Source: Fedotov, A. N.; Simonov, A. P.; Popov, V. K.; Bagratashvili, V. N. *J. Phys. Chem. B* (1997),101(15), 2929-2932.



***p*-Acetoxyacetanilide** ($C_{10}H_{11}NO_3$; MW=193.20) **[A-11]**

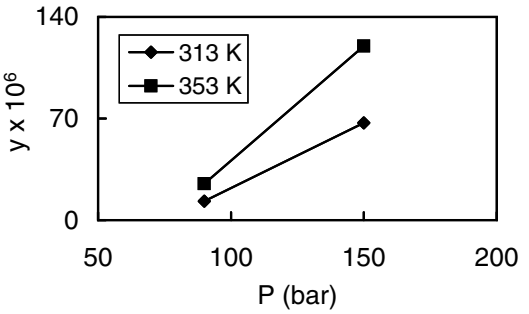
T (K)	P (bar)	y x 10^6
308.15	100	7.9
	140	21.0
	160	24.2
	180	26.5
	200	28.4
328.15	100	3.6
	120	10.9
	140	34.3
	160	48.2
	180	58.3
	200	64.4
348.15	120	7.7
	140	16.5
	160	49.7
	180	71.2
	200	82.7

Synonyms: 4-Acetamidophenyl acetate; 4'-Acetoxyacetanilide
Source: Jouyban, A.; Rehman, M.; Shekunov, B. Y.; Chan, H.-K.; Clark, B. J.; York, P. *J. Pharmac. Sci.* (2002), 91(5), 1287-1295.



_p_-Acetoxyacetanilide ($C_{10}H_{11}NO_3$; MW=193.20) **[A-12]**

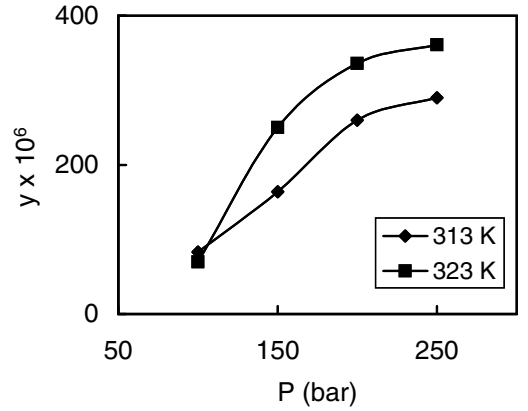
T (K)	P (bar)	y x 10^6
313	90	13
	150	67
353	90	25
	150	120



Synonyms: 4-Acetamidophenyl acetate; 4'-Acetoxyacetanilide
Source: Shekunov, B. Y.; Bristow, S.; Chow, A. H. L.; Cranswick, L.; Grant, D. J. W.; York, P. *Cryst. Growth Des.* (2003), 3(4), 603-610.

Acetylsalicylic acid ($C_9H_8O_4$; MW=180.16) **[A-13]**

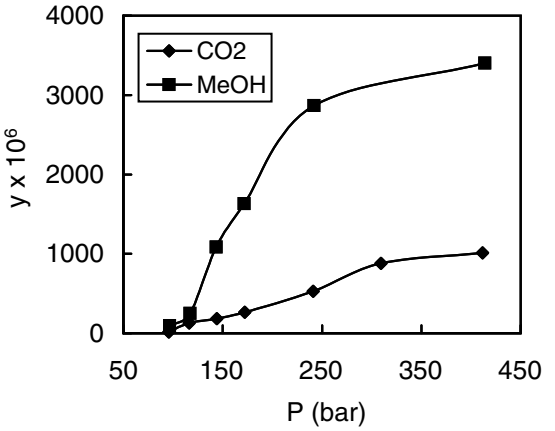
T (K)	P (bar)	y x 10^6
313	100	83
	150	164
	200	260
	250	290
323	100	70
	150	250
	200	336
	250	361



Synonyms: 2-Acetoxybenzoic acid; Aspirin
Source: Bettini, R.; Rossi, A.; Levezzini,E.; Frigo, E.; Pasquali, I.; Giordano, F. *J. Therm. Anal. Cal.* (2003), 73(2), 487-497.

Acridine ($C_{13}H_9N$; MW=179.22) **[A-14]**

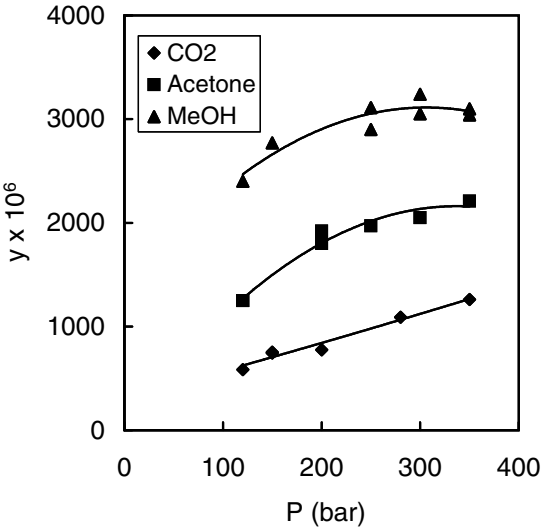
T (K)	P[1] (bar)	Methanol[2] (mol %)	y[1] x 10^6
323	95.8	0	15
	116.2	0	130
	144.2	0	184
	172.3	0	265
	241.2	0	528
	309.4	0	879
	411.7	0	1013
	96.5	5	96
	117.0	5	251
	143.5	5	1087
	171.5	5	1631
	242.0	5	2866
	413.9	5	3403



1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2.
Synonyms: 9-Azaanthracene; 2,3-Benzoquinoline
Source: Van Alsten, J. G.; Eckert, C. A. *Preprints of Papers - Am. Chem. Soc., Div. Fuel Chem.* (1985), 30(3), 13-15.

Acridine ($C_{13}H_9N$; MW=179.22) **[A-15]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.2	120	0.0	585
	150	0.0	743
	150	0.0	751
	200	0.0	775
	280	0.0	1090
	350	0.0	1260
		Acetone	
	120	3.5	1250
	120	3.5	1250
	200	3.5	1800
	200	3.5	1920
	250	3.5	1970
	300	3.5	2050
	350	3.5	2210
		Methanol	
	120	3.5	2400
	150	3.5	2770
	250	3.5	3110
	250	3.5	2900
	300	3.5	3240
	300	3.5	3050
	350	3.5	3040
	350	3.5	3100

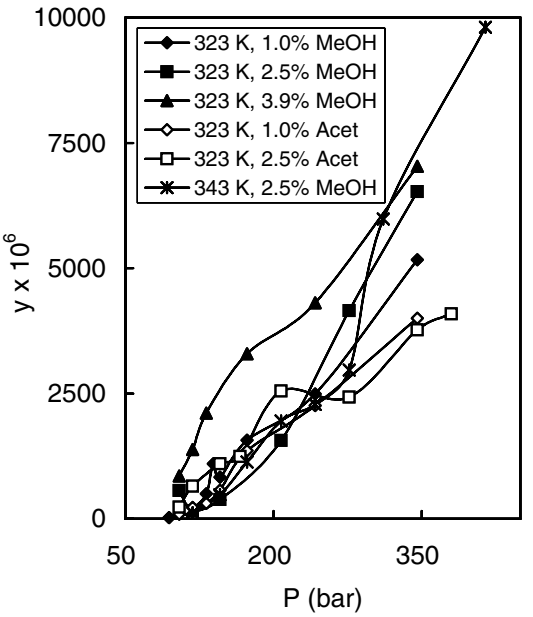


Synonyms: 9-Azaanthracene; 2,3-Benzoquinoline
Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.

Acridine ($C_{13}H_9N$; MW=179.22) **[A-16]**

T (K)	P (bar)	Cosolvent[1)] (mol %)	y x 10^6
		Methanol	
323	94.1	1.0	22
	104.4	1.0	99
	118.2	1.0	207
	132.0	1.0	498
	138.9	1.0	1100
	145.8	1.0	830
	173.3	1.0	1570
	242.3	1.0	2490
	345.7	1.0	5170
	104.4	2.5	563
	118.2	2.5	162
	145.8	2.5	385
	207.8	2.5	1560
	276.7	2.5	4150
	345.7	2.5	6530

	104.4	3.9	854
	118.2	3.9	1380
	132.0	3.9	2110
	173.3	3.9	3290
	242.3	3.9	4310
	345.7	3.9	7030
343	118.2	2.5	124
	145.8	2.5	480
	173.3	2.5	1130
	207.8	2.5	1950
	242.3	2.5	2280
	276.7	2.5	2970
	311.2	2.5	5980
	414.6	2.5	9810
		Acetone	
323	104.4	1.0	93
	111.3	1.0	185
	118.2	1.0	224
	132.0	1.0	305
	145.8	1.0	571
	173.3	1.0	1360
	242.3	1.0	2260
	345.7	1.0	4000
	104.4	2.5	232
	118.2	2.5	649
	145.8	2.5	1100
	166.0	2.5	1240
	207.8	2.5	2550
	276.7	2.5	2430
	345.7	2.5	3770
	380.2	2.5	4090

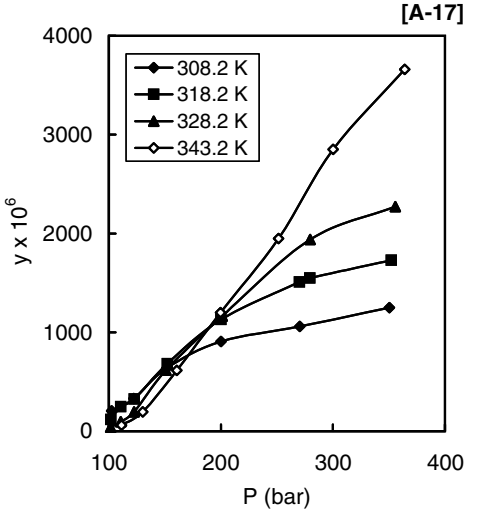


1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: 9-Azaanthracene 2,3-Benzoquinoline
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.

Acridine ($C_{13}H_9N$; MW=179.22)

[A-17]

T (K)	P (bar)	y x 10^6
308.25	102.5	206
	122.2	330
	151.6	638
	200.0	907
	270.3	1060
	350.4	1250
318.15	101.8	118
	110.6	247
	122.8	326
	152.2	681
	200.0	1130
	270.1	1510
	279.4	1550
	352.2	1730



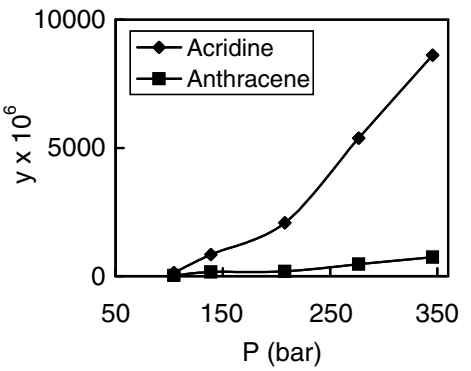
328.25	101.6	40
	110.6	96
	122.5	194
	151.0	617
	201.1	1165
	279.6	1940
	355.7	2270
343.15	111.2	60
	130.1	196
	160.7	615
	199.7	1200
	251.4	1950
	300.1	2850
	364.1	3660

Synonyms: 9-Azaanthracene; 2,3-Benzoquinoline
Source: Schmitt, W. J.; Reid, R. C. *J. Chem. Eng. Data* (1986), 31(2), 204-212.

Acridine(1) + Anthracene(2) Mixture **[A-18]**

T (K)	P (bar)	Methanol[1)] (mol %)	$y_1 \times 10^6$	$y_2 \times 10^6$
323	104.4	1.0	136	19.9
	138.9	1.0	845	155
	207.8	1.0	2080	181
	276.7	1.0	5380	461
	345.7	1.0	8620	741

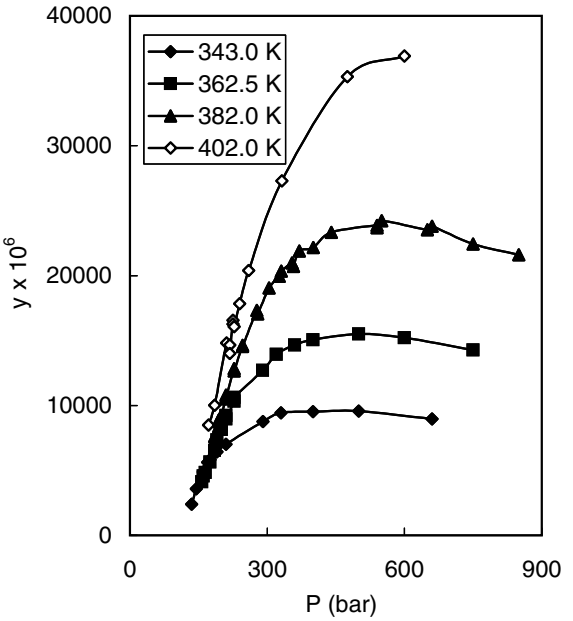
1: Cosolvent in CO_2 on a solute-free basis.
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.



Adamantane ($C_{10}H_{16}$; MW=136.23) **[A-19]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343.0	135.0	3.23	2393
	145.0	5.44	3590
	160.0	8.40	4883
	170.0	10.30	5631
	175.0	10.95	5835
	190.0	12.83	6422
	210.0	14.90	7014
	290.5	21.38	8756
	330.0	24.00	9433
	400.0	25.57	9526
	500.0	27.10	9564
	660.0	26.93	8958

362.5	157.0	5.18	4131
	160.0	5.88	4563
	165.0	6.52	4848
	175.0	8.20	5646
	185.0	10.16	6546
	190.0	11.74	7342
	200.0	13.74	8153
	200.0	13.76	8164
	210.0	16.30	9241
	210.0	15.82	8971
	228.0	19.46	10320
	228.0	20.03	10620
	290.0	27.74	12700
	320.0	31.87	13930
	360.0	35.18	14650
	400.0	37.53	15050
	500.0	41.47	15510
	600.0	42.74	15220
	750.0	42.29	14280
382.0	185.0	9.19	7276
	185.0	9.62	7614
	194.0	11.21	8375
	194.0	11.88	8871
	195.0	11.76	8730
	195.0	11.12	8259
	200.0	12.81	9232
	210.0	15.42	10520
	210.0	15.85	10810
	210.0	15.60	10640
	228.0	20.49	12840
	228.0	20.21	12670
	246.0	25.05	14640
	246.0	24.89	14550
	277.0	32.54	17320
	279.0	32.22	17060
	304.0	38.10	19040
	326.0	41.58	19940
	330.5	42.76	20340
	354.0	45.75	20980
	357.5	45.34	20700
	370.0	48.80	21890
	401.0	51.27	22170
	440.0	56.11	23320
	540.0	61.82	23860
	540.0	61.35	23690
	550.0	63.15	24220
	650.0	64.55	23540
	660.0	65.53	23790
	750.0	63.97	22440
	850.0	63.53	21600
402.0	172.0	8.35	8495
	185.0	10.78	10020



211.0	18.66	14820
218.0	19.13	14660
218.0	18.27	14010
225.0	22.40	16570
225.0	22.00	16280
228.0	22.02	16070
240.0	25.79	17840
259.5	31.82	20390
332.0	51.96	27290
475.0	82.26	35310
600.0	94.48	36910

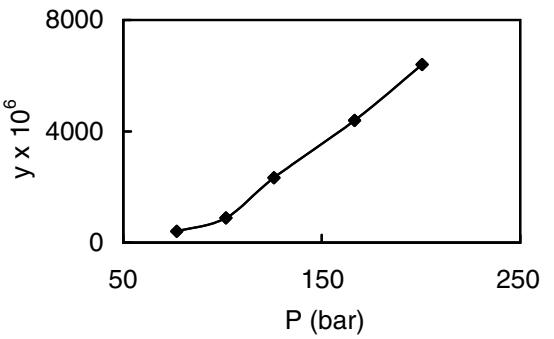
1: Calculated from S.

Synonym: Tricyclo[3.3.1.1^{3},7]decane

Source: Swaid, I.; Nickel, D.; Schneider, G. M. *Fluid Phase Equil.* (1985), 21, 95-112.

Adamantane ($C_{10}H_{16}$; MW=136.23) **[A-20]**

T (K)	P (bar)	y x 10^{6}
333	77.0	413
	101.7	885
	125.9	2330
	166.5	4390
	200.6	6400

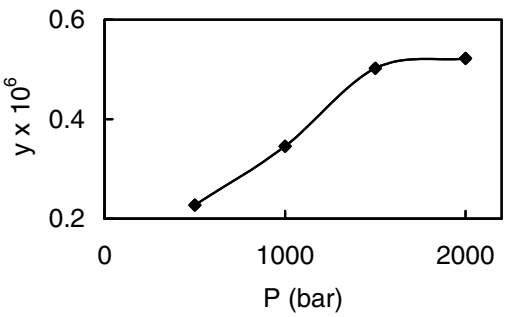


Synonym: Tricyclo[3.3.1.1^{3},7]decane

Source: Smith, V. S.; Teja, A. S.; *J. Chem. Eng. Data* (1996), 41(4), 923-925.

Aesculetin ($C_9H_6O_4$; MW=178.14) **[A-21]**

T (K)	P[1)] (bar)	S[1)] (μg/Nl[2)])	y[3)] x 10^{6}
313.15	500	1.82	0.228
	1000	2.76	0.345
	1500	4.02	0.502
	2000	4.18	0.522



1: Obtained by digitizing the graph in the original article.

2: Nl means "Normliter" which is one liter at 273.15 K and 1 atm.

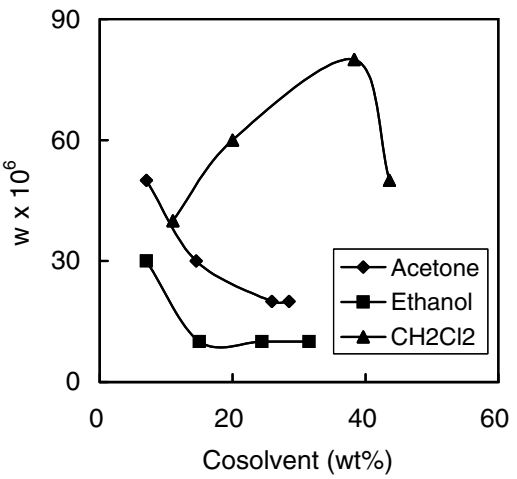
3: Calculated from S.

Synonyms: 6,7-Dihydroxycoumarin; Esculetin

Source: Stahl, E.; Schilz, W.; Schutz, E.; Willing, E. *Angew. Chem. Int. Ed.* (1978), 17, 731-738.

Albumin **[A-22]**

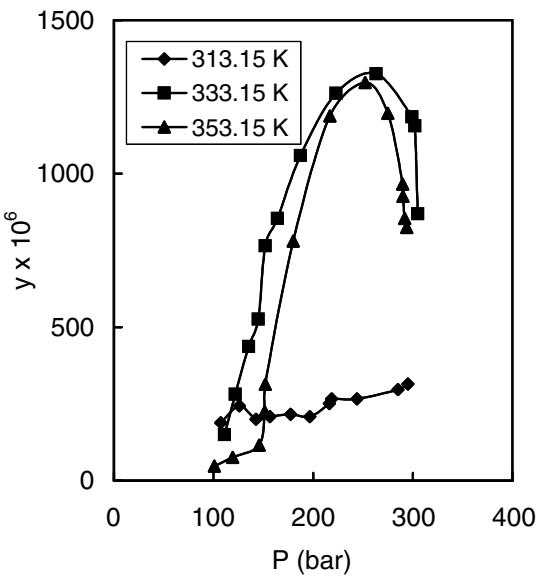
T (K)	P (bar)	Cosolvent (wt%)	w x 10^6
		Acetone	
313	180	7.0	50
		14.5	30
		25.9	20
		28.5	20
		Ethanol	
313	180	7.0	30
		15.0	10
		24.4	10
		31.5	10
		CH_2Cl_2	
313	180	11.0	40
		20.0	60
		38.3	80
		43.6	50



Source: Domingo,C.,Vega, A Fanovich, M. A., Elvira, C., Subra, P., *J. Appl. Polym. Sci*. (2003), 90(13), 3652-3659.

Ametryne ($C_9H_{17}N_5S$; MW=227.33) **[A-23]**

T (K)	P (bar)	y[1)] x 10^6
313.15	107.1	189
	125.9	244
	142.5	200
	156.7	209
	177.3	216
	196.8	209
	216.2	251
	218.4	266
	243.9	266
	285.2	297
	295.1	315
333.15	111.0	150
	121.7	282
	135.3	437
	145.0	526
	151.8	765
	164.3	854
	187.2	1059
	223.0	1262
	263.2	1326
	299.2	1185
	302.1	1156
	304.9	869

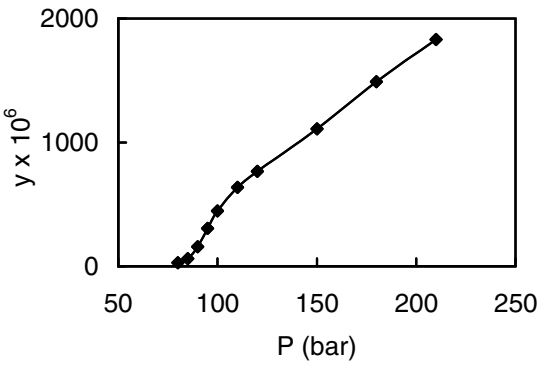


353.15	100.8	47
	119.2	76
	145.8	116
	151.2	225
	151.8	314
	179.9	780
	216.7	1188
	252.2	1297
	274.9	1197
	289.9	966
	290.2	926
	291.9	854
	293.9	825

1: Obtained by digitizing the graph in the original article.
Synonym: 2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine
Source: Knez, Z.; Rizner-Hras, A.; Kokot, K.; Bauman, D. *Fluid Phase Equil.* (1998), 152(1), 95-108.

Ametryne ($C_9H_{17}N_5S$; MW=227.33) **[A-24]**

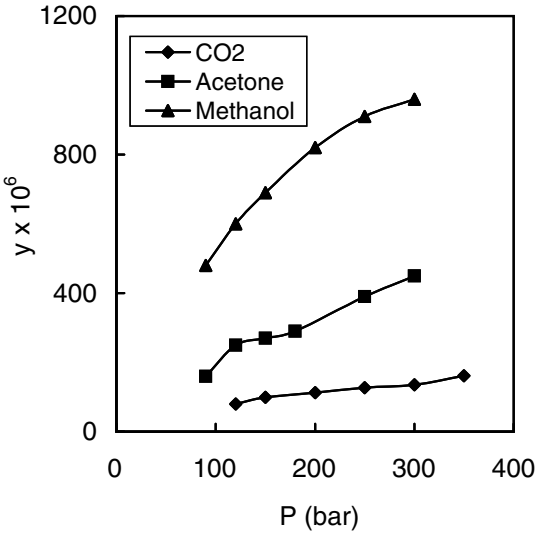
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.04	27
	85	0.11	60
	90	0.41	158
	95	0.93	306
	100	1.46	446
	110	2.26	636
	120	2.85	766
	150	4.50	1110
	180	6.32	1490
	210	8.05	1830



1: Obtained by digitizing the original graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine
Source: Rodrigues, S.V.; Nepomuceno, D.; Martins, L. V.; Baumann, W. *Fresenius' J. Anal. Chem.* (1998), 360(1), 58-61.

2-Aminobenzoic acid ($C_7H_7NO_2$; MW=137.14) **[A-25]**

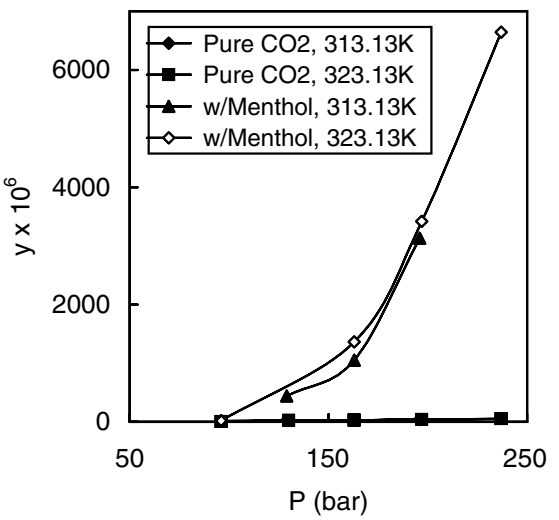
T(K)	P(bar)	Cosolvent (mol%)	y x 10^6
308.15	120	0.0	80
	150	0.0	99
	200	0.0	113
	250	0.0	127
	300	0.0	135
	350	0.0	161
		Acetone	
	90	3.5	160
	120	3.5	250
	150	3.5	270
	180	3.5	290
	250	3.5	390
	300	3.5	450
		Methanol	
	90	3.5	480
	120	3.5	600
	150	3.5	690
	200	3.5	820
	250	3.5	910
	300	3.5	960



Synonyms: Anthranilic acid; 2-Carboxyaniline
Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.

2-Aminobenzoic acid ($C_7H_7NO_2$; MW=137.14) **[A-26]**

T (K)	P (bar)	Menthol[1)]	y x 10^6
313.1	96	0	13
	129	0	25
	163	0	32
	196	0	38
323.1	96	0	5
	130	0	24
	163	0	31
	197	0	42
	237	0	56
313.1	129	saturated	440
	163	saturated	1051
	196	saturated	3131
323.1	96	saturated	19
	163	saturated	1363
	197	saturated	3416
	237	saturated	6641



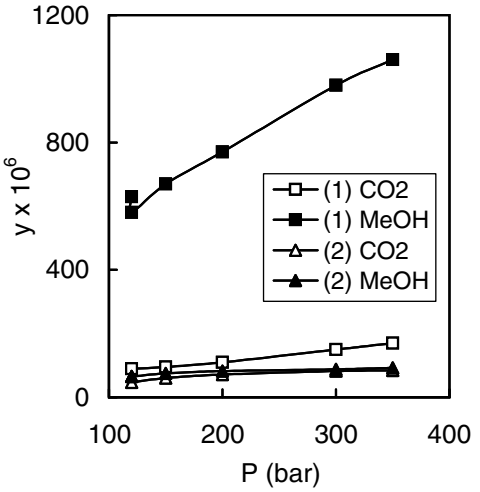
1: Cosolvent that is fully saturated in CO_2.
Synonyms: Anthranilic acid; 2-Carboxyaniline
Source: Thakur, R., PhD Dissertation, Auburn University, Auburn, Alabama, 2006.

2-Aminobenzoic acid (1) + Anthracene (2) Mixture[1)] **[A-27]**

T (K)	P (bar)	Methanol[2)] (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.2	120	0.0	90	47
	150	0.0	95	60
	200	0.0	110	71
	300	0.0	150	82
	350	0.0	170	84
	120	3.5	630	66
	120	3.5	580	65
	150	3.5	670	75
	200	3.5	770	82
	300	3.5	980	88
	350	3.5	1060	92

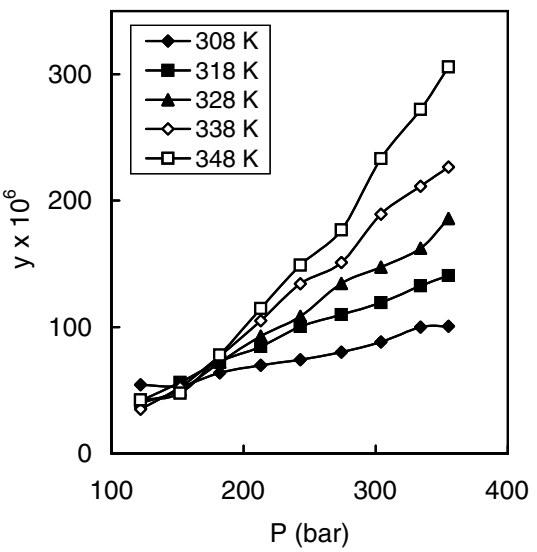
1: The solubility was measured from a mixture of solids 1 and 2 of 50:50 wt%.
2: Cosolvent in CO_2.

Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.



1-Amino-2,3-dimethylanthraquinone ($C_{16}H_{13}NO_2$; MW=251.28) **[A-28]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
308	122	0.24	54.3
	152	0.25	53.4
	182	0.31	63.7
	213	0.35	69.8
	243	0.38	74.0
	274	0.42	80.2
	304	0.47	88.2
	334	0.54	99.9
	355	0.55	100.7
318	122	0.16	41.7
	152	0.24	56.1
	182	0.33	72.7
	213	0.40	84.6
	243	0.49	100.5
	274	0.55	109.9
	304	0.61	119.4
	334	0.69	132.6
	355	0.74	140.6
328	122	0.12	39.8
	152	0.19	50.1
	182	0.30	72.0
	213	0.41	92.7
	243	0.50	108.6
	274	0.64	134.5
	304	0.72	147.4
	334	0.81	162.3
	355	0.94	185.8

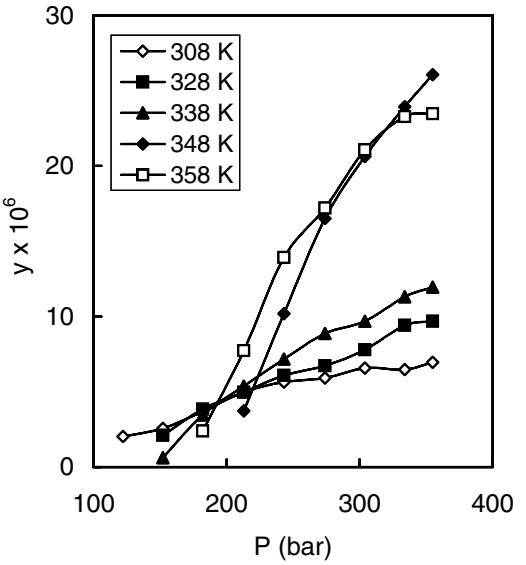


338	122	0.08	34.9
	152	0.17	52.4
	182	0.29	77.1
	213	0.43	105.1
	243	0.58	134.2
	274	0.68	151.0
	304	0.88	189.2
	334	1.01	211.5
	355	1.10	226.6
348	122	0.08	42.3
	152	0.13	47.7
	182	0.26	77.8
	213	0.43	114.7
	243	0.60	149.1
	274	0.75	176.7
	304	1.03	233.4
	334	1.24	272.1
	355	1.42	305.7

1: The mole fraction solubility data were published wrong and thus were recalculated from S in the original article.
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Chem. Eng. Data* (2003), 48(1), 71-74.

1-Amino-2,4-dimethylanthraquinone ($C_{16}H_{13}NO_2$; MW=251.28) **[A-29]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
308	122	0.009	2.0
	152	0.012	2.6
	182	0.018	3.7
	213	0.025	5.0
	243	0.029	5.7
	274	0.031	5.9
	304	0.035	6.6
	334	0.035	6.5
	355	0.038	7.0
328	152	0.008	2.1
	182	0.016	3.8
	213	0.022	5.0
	243	0.028	6.1
	274	0.032	6.7
	304	0.038	7.8
	334	0.047	9.4
	355	0.049	9.7
338	152	0.002	0.6
	182	0.013	3.5
	213	0.022	5.4
	243	0.031	7.2
	274	0.040	8.9
	304	0.045	9.7
	334	0.054	11.3
	355	0.058	12.0

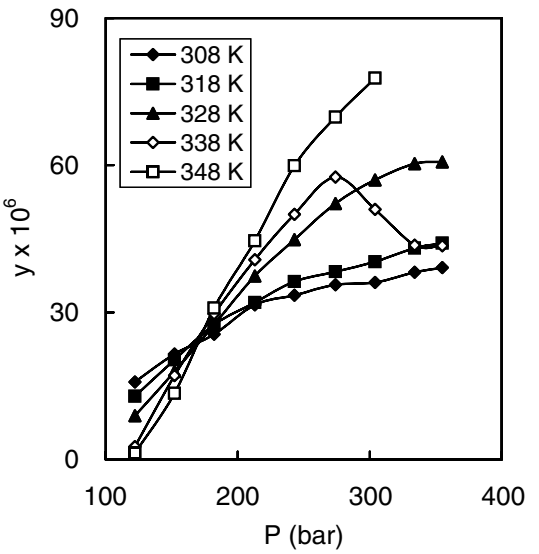


348	213	0.014	3.7
	243	0.041	10.2
	274	0.070	16.5
	304	0.091	20.6
	334	0.109	23.9
	355	0.121	26.1
358	182	0.008	2.4
	213	0.029	7.7
	243	0.056	13.9
	274	0.073	17.2
	304	0.093	21.1
	334	0.106	23.3
	355	0.109	23.5

1: The mole fraction solubility data were published wrong and thus were recalculated from S in the original source.
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Chem. Eng. Data* (2003), 48(1), 71-74.

1-Amino-2-ethylanthraquinone ($C_{16}H_{13}NO_2$; MW=251.28) **[A-30]**

T (K)	P (bar)	S[1)] (g/L)	y x 10^6
308	122	0.07	15.8
	152	0.10	21.5
	182	0.12	25.5
	213	0.16	31.5
	243	0.17	33.5
	274	0.19	35.6
	304	0.19	36.1
	334	0.21	38.2
	355	0.21	39.1
318	122	0.05	12.9
	152	0.09	20.3
	182	0.12	27.5
	213	0.15	32.0
	243	0.18	36.3
	274	0.19	38.3
	304	0.21	40.3
	334	0.22	43.1
	355	0.23	44.1
328	122	0.03	8.9
	152	0.07	17.9
	182	0.11	27.5
	213	0.16	37.4
	243	0.21	44.8
	274	0.25	52.2
	304	0.28	57.0
	334	0.30	60.3
	355	0.31	60.7

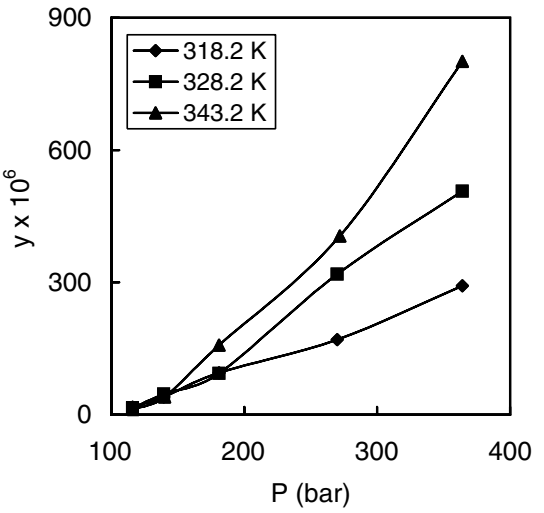


338	122	0.01	2.6
	152	0.05	17.1
	182	0.11	29.7
	213	0.17	40.7
	243	0.22	50.0
	274	0.26	57.6
	304	0.24	51.0
	334	0.21	43.7
	355	N/A	43.6
348	122	0.00	1.3
	152	0.04	13.5
	182	0.10	30.9
	213	0.17	44.6
	243	0.24	59.9
	274	0.29	69.8
	304	0.34	77.8

1: The solubility S at 338 K and 355 bar is missing in the source.
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Chem. Eng. Data* (2003), 48(1), 71-74.

2-Aminofluorene ($C_{13}H_{11}N$; MW=181.23) **[A-31]**

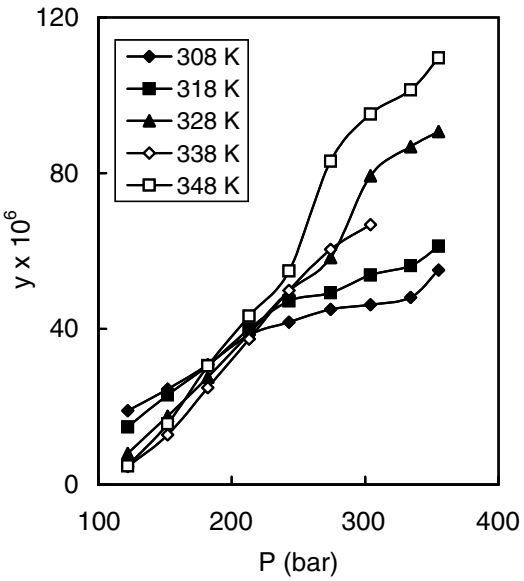
T (K)	P (bar)	y x 10^6
318.15	116.0	17
	139.5	40
	181.0	95
	270.0	170
	364.0	292
328.15	116.0	15
	139.5	47
	181.0	94
	270.0	319
	364.0	507
343.15	116.5	12
	140.0	40
	181.0	158
	272.0	405
	364.0	801



Synonym: Fluoren-2-amine
Source: Schmitt, W. J.; Reid, R. C. *J. Chem. Eng. Data* (1986), 31(2), 204-212.

1-Amino-2-methylanthraquinone ($C_{15}H_{11}NO_2$; MW=237.25) **[A-32]**

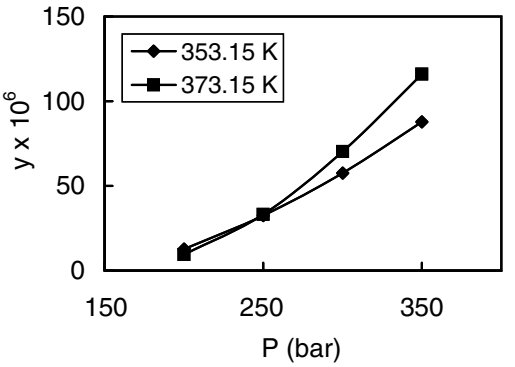
T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.08	19.0
	152	0.11	24.5
	182	0.14	30.8
	213	0.18	38.4
	243	0.20	41.7
	274	0.22	45.0
	304	0.23	46.2
	334	0.25	48.1
	355	0.28	55.1
318	122	0.05	14.8
	152	0.09	23.0
	182	0.13	30.6
	213	0.18	39.9
	243	0.22	47.2
	274	0.23	49.3
	304	0.26	53.8
	334	0.28	56.2
	355	0.30	61.2
328	122	0.02	8.0
	152	0.06	17.6
	182	0.11	27.6
	213	0.16	38.7
	243	0.22	49.7
	274	0.26	58.3
	304	0.36	79.3
	334	0.41	86.8
	355	0.43	90.7
338	122	0.01	4.6
	152	0.04	12.8
	182	0.09	24.9
	213	0.14	37.4
	243	0.20	49.9
	274	0.26	60.4
	304	0.29	66.8
348	122	0.01	4.8
	152	0.04	15.6
	182	0.10	30.5
	213	0.15	43.3
	243	0.21	54.9
	274	0.33	83.1
	304	0.40	95.2
	334	0.44	101.4
	355	0.48	109.6



Synonym: C.I. Disperse Orange 11
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Chem. Eng. Data* (2003), 48(1), 71-74.

1-((4-Aminophenyl)azo)-2-naphthol ($C_{16}H_{13}N_3O$; MW=263.30) **[A-33]**

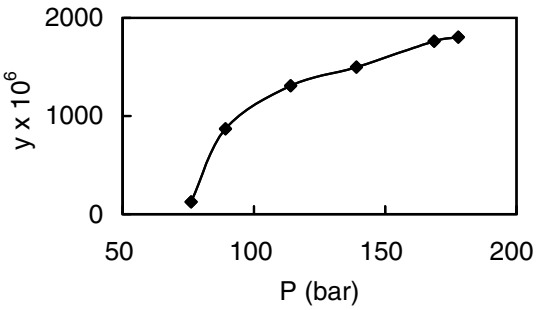
T (K)	P (bar)	y x 10^6
353.15	200	12.8
	250	32.4
	300	57.6
	350	87.8
373.15	200	9.5
	250	33.1
	300	70.3
	350	116.0



Source: Oezcan, A. S.; Clifford, A. A.; Bartle, K. D.; Lewis, D. M. *J. Chem. Eng. Data* (1997), 42(3), 590-592.

2-Aminopyrazine ($C_4H_5N_3$; MW=95.10) **[A-34]**

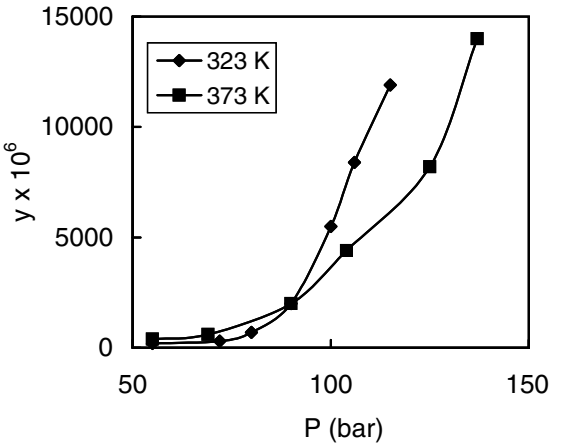
T (K)	P (bar)	y x 10^6
308.15	76.1	126
	89.1	870
	114.0	1310
	139.0	1498
	168.6	1763
	177.8	1804



Synonym: Pyrazinamine
Source: Nakatani, T.; Tohdo, T.; Ohgaki, K.; Katayama, T. *J. Chem. Eng. Data* (1991), 36(3), 314-316.

***p*-Anisaldehyde** ($C_8H_8O_2$; MW=136.15) **[A-35]**

T (K)	P (bar)	y[1)] x 10^6
323	55	200
	72	300
	80	700
	90	2000
	100	5500
	106	8400
	115	*11900*
373	55	400
	69	600
	90	2000
	104	4400
	125	8200
	137	14000

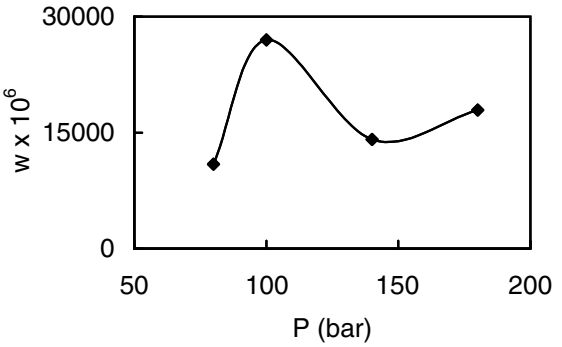


1: The value of y at 323 K and 115 bar was mistyped in the source table (y x 10^6 = 3000) and thus was corrected based on the distribution coefficient K (=y/x) values listed in the same table.
Synonym: 4-Methoxybenzaldehyde
Source: Mukhopadhyay, M.; De, S. K. *J. Chem. Eng. Data* (1995), 40(4), 909-913.

Aniseed[1] Essential Oil **[A-36]**

T (K)	P (bar)	W (g/kg CO_2)	w[2] x 10^6
303.15	80	11.0	10900
	100	27.7	27000
	140	14.3	14100
	180	18.2	17900

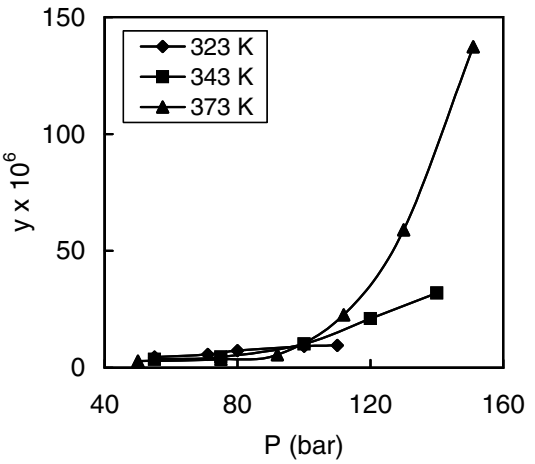
1: The botanical name of aniseed is *Pimpinella anusum L*.
2: Calculated from W.
Source: Rodrigues, V. M.; Rosa, P. T. V.; Marques, M. O. M.; Petenate, A. J.; Meireles, M. A. A. *J. Agric. Food Chem.* (2003), 51(6), 1518-23.



***p*-Anisic acid** ($C_8H_8O_3$; MW=152.15) **[A-37]**

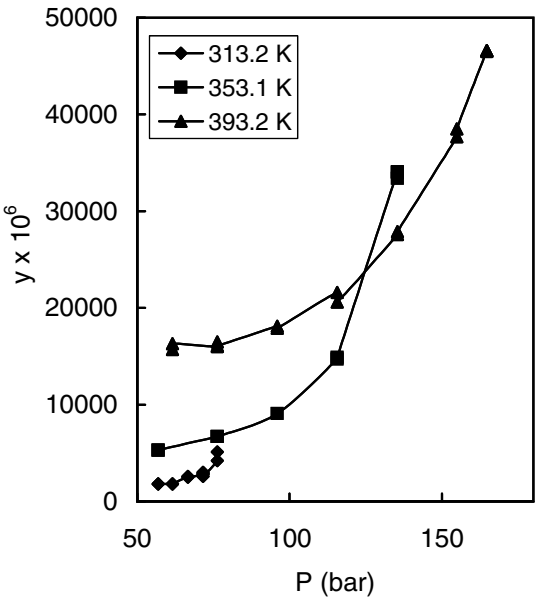
T (K)	P (bar)	y x 10^6
323	55	4.61
	71	5.78
	80	7.35
	100	9.21
	110	9.64
343	55	3.57
	75	4.58
	100	10.20
	120	21.02
	140	32.00
373	50	2.87
	75	3.65
	92	5.56
	112	22.67
	130	59.03
	151	137.30

Synonym: 4-Methoxybenzoic acid
Source: Mukhopadhyay, M.; De, S. K. *J. Chem. Eng. Data* (1995), 40(4), 909-913.



Anisole (C_7H_8O; MW=108.14) **[A-38]**

T (K)	P (bar)	y x 10^6
313.2	56.9	1800
	56.9	1800
	61.6	1800
	61.6	1800
	66.6	2600
	66.6	2500
	71.6	2800
	71.6	3000
	71.6	2900
	71.6	2600
	76.3	4200
	76.3	5100
353.1	56.9	5300
	56.9	5300
	76.3	6700
	76.3	6700
	95.9	9100
	115.6	14700
	115.6	14900
	135.4	34100
	135.4	33400
	135.4	34000
393.2	61.6	15700
	61.6	16300
	76.3	16000
	76.3	16500
	76.3	16100
	95.9	18100
	95.9	17900
	115.6	21600
	115.6	20600
	135.4	27600
	135.4	27900
	154.9	37700
	154.9	38500
	164.7	46600
	164.7	46600
	164.7	46500

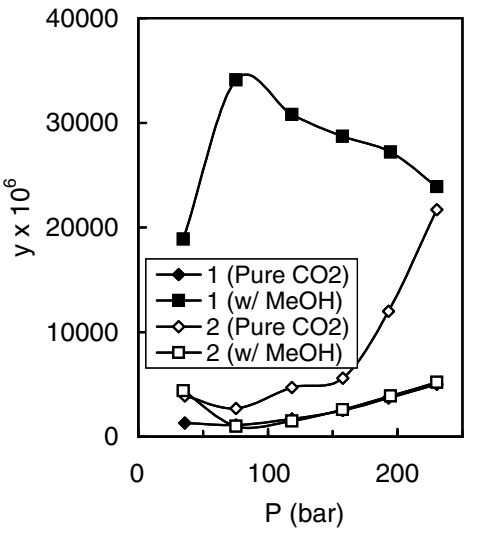


Synonyms: Methoxybenzene; Methyl phenyl ether
Source: Walther, D.; Maurer, G.
J. Chem. Eng. Data (1993), 38, 247-249.

Anisole (1) (C_7H_8O; MW=108.14) **+ 1-Methylnaphthalene (2) Mixture** **[A-39]**

T (K)	P (bar)	Methanol[1)] (wt%)	$y_1 \times 10^6$	$y_2 \times 10^6$
372.6	35.8	0	1300	3900
	75.5	0	1100	2700
	118.5	0	1700	4700
	157.8	0	2500	5600
	193.0	0	3700	12000
	230.2	0	5000	21700
373.2	34.8	1.98	18900	4400
	75.5	0.21	34100	1000
	118.5	0.39	30800	1500
	157.5	0.61	28700	2600
	194.7	1.34	27200	3900
	230.2	2.38	23900	5200

1: Cosolvent in CO_2.

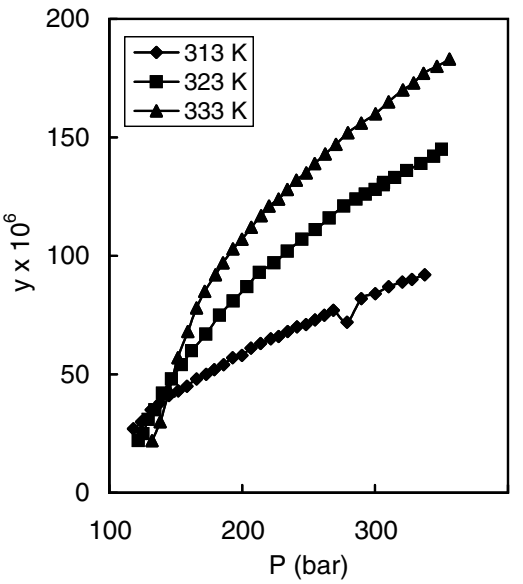


Synonym of (1): Methoxybenzene

Source: Reilly, J.; Kim, C.; Clark, A.; Donohue, M. *Fluid Phase Equil.* (1992), 73(1-2), 81-107.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-40]**

T (K)	P (bar)	$y \times 10^6$
313	118.1	27
	124.3	30
	131.5	35
	138.0	38
	144.9	41
	152.0	43
	158.5	45
	165.8	48
	172.9	50
	179.1	52
	186.0	54
	192.9	57
	199.8	58
	206.7	61
	213.9	63
	221.5	65
	227.4	66
	234.3	68
	241.2	70
	248.0	71
	254.9	73
	261.8	75
	268.7	77
	279.0	72
	289.6	82
	300.1	84
	310.3	87



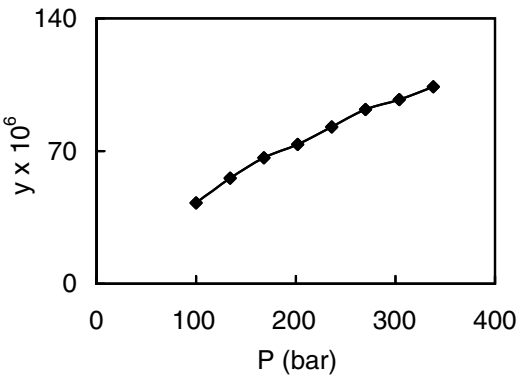
	320.5	89
	327.8	90
	337.4	92
323	121.8	22
	125.3	25
	129.3	31
	134.4	35
	140.0	42
	146.8	48
	154.3	54
	162.0	60
	172.6	67
	183.1	75
	193.2	81
	203.5	87
	213.0	93
	223.9	97
	234.0	102
	245.0	107
	255.1	111
	265.5	116
	276.6	121
	285.7	124
	292.8	126
	300.1	128
	306.3	130
	306.6	131
	314.9	133
	323.8	136
	334.5	139
	344.1	142
	350.0	145
333	132.2	22
	138.4	30
	145.2	43
	151.7	57
	159.2	68
	165.6	78
	171.8	85
	179.9	92
	185.7	97
	193.1	103
	199.9	107
	206.9	112
	214.3	117
	220.3	121
	227.4	124
	234.1	128
	240.8	132
	248.3	135
	254.7	139

262.4	143
270.5	147
279.6	152
289.7	156
300.3	160
310.3	165
320.9	170
329.0	173
336.6	177
346.6	180
355.9	183

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 10(3), 175-189.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-41]**

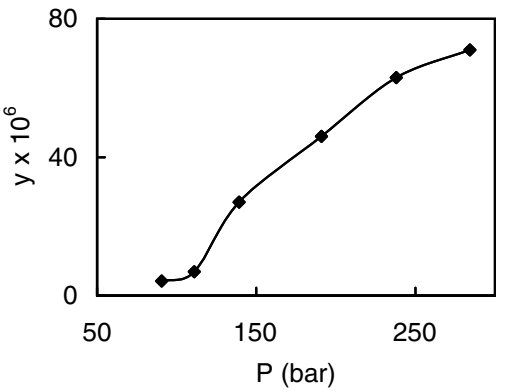
T (K)	P (bar)	y x 10^6
313.15	100	42.6
	134	55.8
	168	66.4
	202	73.5
	236	82.8
	270	91.9
	304	97.2
	338	104.0



Source: Ashraf-Khorassani, M.; Combs, M. T.; Taylor, L. T.; Schweighardt, F. K.; Mathias, P. S. *J. Chem. Eng. Data* (1997), 42(3), 636-640.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-42]**

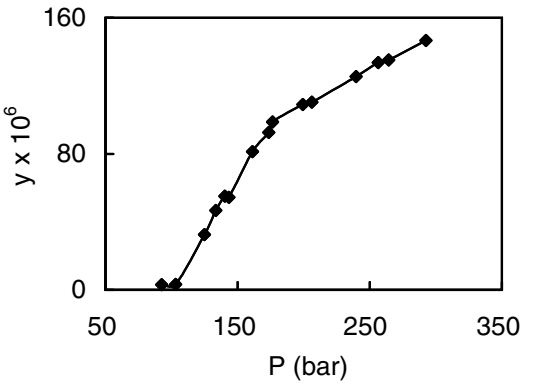
T (K)	P[1)] (bar)	y[2)] x 10^6
308.2	91	4
	111	7
	139	27
	191	46
	238	63
	284	71



1: Calculated from temperature and density in the source graph.
2: Obtained by digitizing the graph in the original article. The data may have a large reading error as the original graph is small.
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-43]**

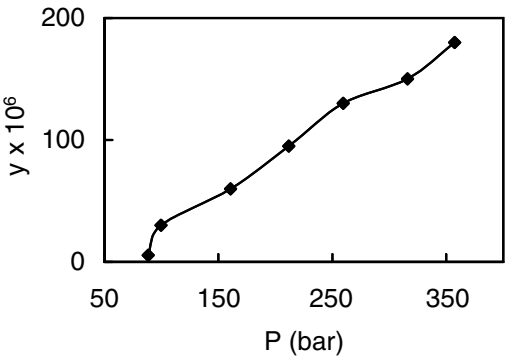
T (K)	P (bar)	y x 10^6
323.15	92.6	3.1
	103.0	3.3
	124.8	32.5
	133.4	46.7
	140.3	55.0
	143.3	54.5
	161.2	81.2
	173.5	92.6
	176.5	98.8
	199.4	109.0
	206.1	110.4
	239.6	125.4
	256.3	133.6
	264.4	135.2
	292.6	146.7



Source: Coutsikos, P.; Magoulas, K.; Tassios, D. *J. Chem. Eng. Data* (1995), 40(4), 953-958.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-44]**

T (K)	P[1)] (bar)	y[2)] x 10^6
323.15	88	6
	100	30
	161	60
	212	95
	260	130
	316	150
	357	180



1: Calculated from temperature and density in the source graph.
2: Obtained by digitizing the graph in the original article.

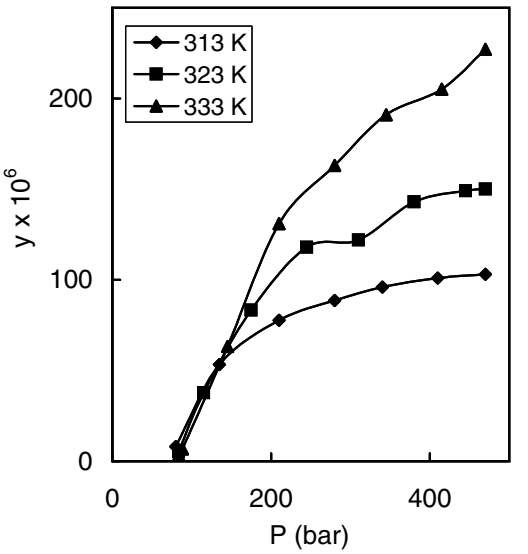
Source: Ekart, M. P.; Bennett, K. L.; Ekart, S. M.; Gurdial, G. S.; Liotta, C. L.; Eckert, C. A. *AIChE J.* (1993), 39(2), 235-248.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-45]**

T (K)	P (bar)	M x 10^3 (mol/L)	y x 10^6
313	80	0.051	8.1
	135	0.914	53.3
	210	1.500	77.7
	280	1.810	88.5
	340	2.030	96.0
	410	2.210	101.0
	470	2.310	103.0

323	83.4	0.029	5.3
	115	0.471	37.7
	175	1.420	83.3
	245	2.220	118.0
	310	2.640	122.0
	380	2.970	143.0
	445	3.200	149.0
	470	3.250	150.0
333	83.4	0.016	3.3
	88.3	0.035	6.8
	145	0.842	63.3
	210	2.200	131.0
	280	3.030	163.0
	345	3.730	191.0
	415	4.200	205.0
	470	4.760	227.0

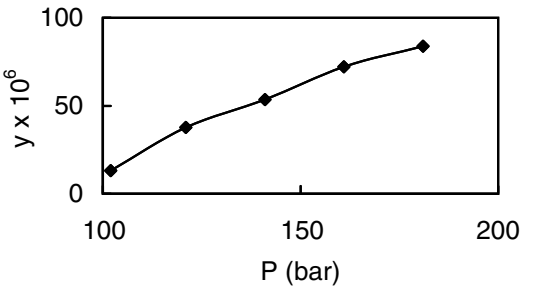
Source: Hampson, J. W. *J. Chem. Eng. Data* (1996), 41(1), 97-100.



Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-46]**

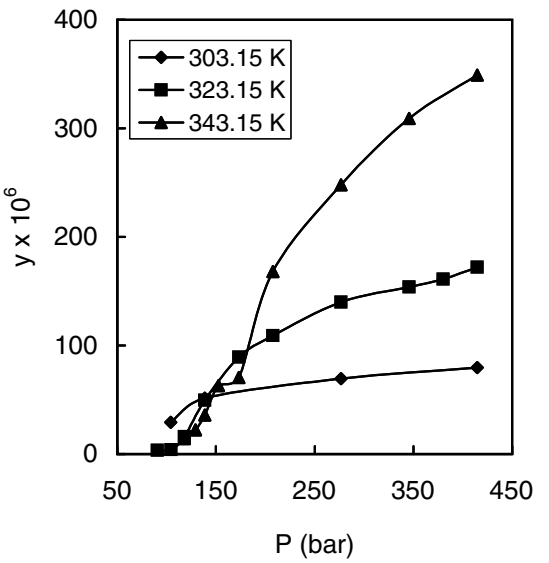
T (K)	P (bar)	y x 10^6
308.2	102	13.1
	121	37.7
	141	53.5
	161	72.1
	181	83.8

Source: Goodarznia, I.; Esmaeilzadeh, F. *J. Chem. Eng. Data* (2002), 47(2), 333-338.



Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-47]**

T (K)	P (bar)	y x 10^6
303.15	104.3	29.2
	138.8	51.5
	276.7	69.4
	414.5	79.5
323.15	90.6	3.5
	104.4	4.0
	118.1	16.1
	138.8	49.6
	173.3	89.3
	207.7	109.0
	276.7	140.0
	345.6	154.0
	380.1	161.0
	414.5	172.0

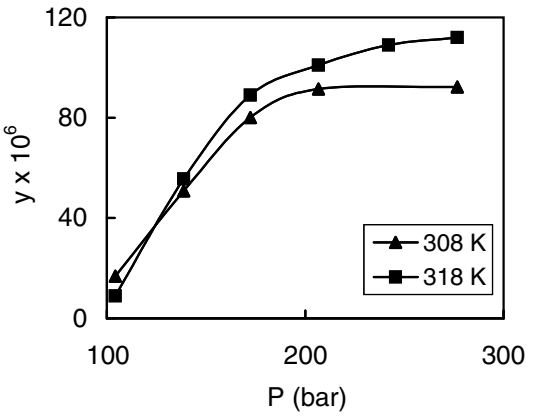


343.15	118.1	14.2
	129.2	22.2
	138.8	35.8
	152.6	63.0
	173.3	70.6
	207.7	168.0
	276.7	248.0
	345.6	309.0
	414.5	349.0

Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.* (1982), 21(3), 191-197.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-48]**

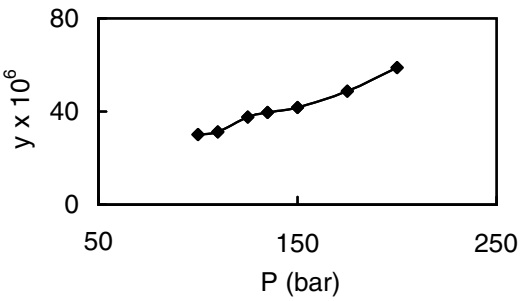
T (K)	P (bar)	y x 10^6
308	104.2	16.8
	138.7	50.8
	172.4	80.1
	206.7	91.4
	276.7	92.3
318	104.2	8.9
	138.7	55.6
	172.4	89.0
	206.7	101.0
	242.0	109.0
	276.7	112.0



Source: Kosal, E.; Holder, G. D. *J. Chem. Eng. Data* (1987), 32(2), 148-150.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-49]**

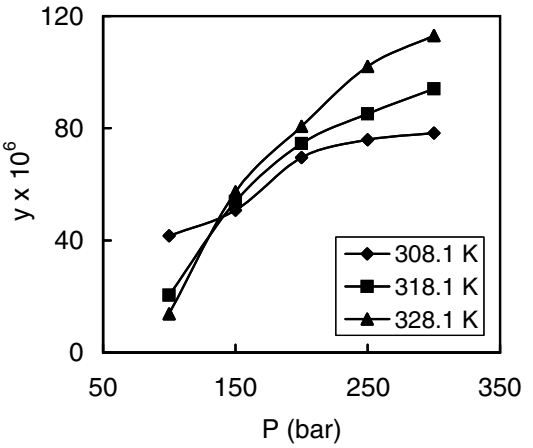
T (K)	P (bar)	y x 10^6
313.1	100	30.1
	110	31.2
	125	37.6
	135	39.6
	150	41.8
	175	48.7
	200	58.9



Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-50]**

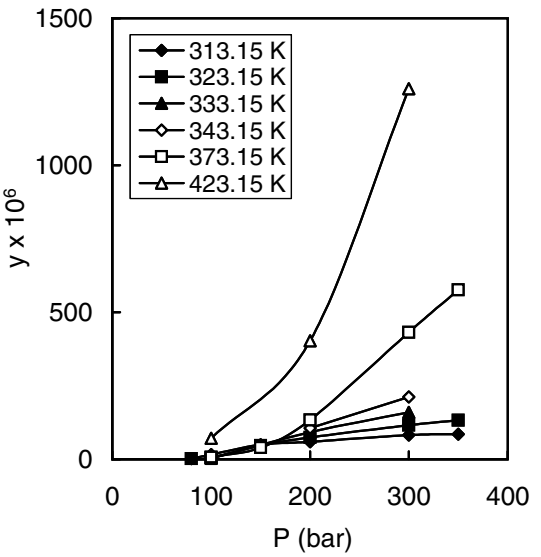
T (K)	P (bar)	y x 10^6
308.1	100	41.6
	150	50.8
	200	69.6
	250	75.9
	300	78.3
318.1	100	20.5
	150	53.9
	200	74.5
	250	85.1
	300	94.0
328.1	100	13.8
	150	57.3
	200	80.7
	250	102.0
	300	113.0



Source: Li, Q.; Zhang, Z.; Zhong, C.; Liu, Y.; Zhou, Q. *Fluid Phase Equil.* (2003), 207(1-2), 183-192.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-51]**

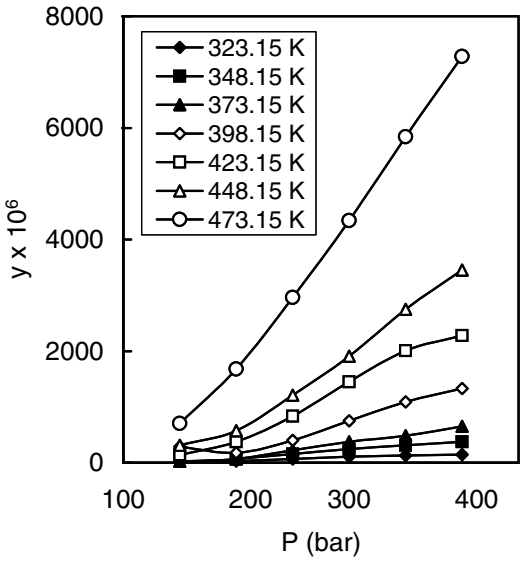
T (K)	P (bar)	y x 10^6
313.15	80	2.4
	100	15.4
	150	49.8
	200	59.2
	300	82.3
	350	85.3
323.15	80	1.7
	100	4.5
	150	46.2
	200	74.3
	300	116.0
	350	133.0
333.15	100	2.5
	200	91.9
	300	159.0
343.15	200	106.0
	300	212.0
373.15	100	7.3
	150	39.7
	200	134.0
	300	432.0
	350	576.0
423.15	100	71.6
	200	403.0
	300	1260.0



Source: Lou, X.; Janssen, H.-G.; Cramers, C. A. *J. Chromatogr. A* (1997),785 (1-2), 57-64.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-52]**

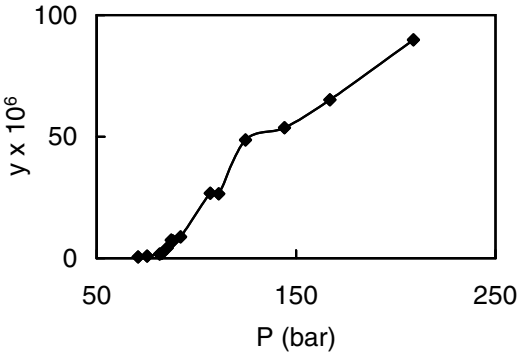
T (K)	P (bar)	y x 10^6
323.15	150	26
	200	31
	250	69
	300	107
	350	132
	400	145
348.15	200	66
	250	155
	300	247
	350	311
	400	374
373.15	150	26
	200	70
	250	224
	300	375
	350	486
	400	653
398.15	150	285
	200	176
	250	404
	300	752
	350	1090
	400	1330
423.15	150	139
	200	376
	250	834
	300	1450
	350	2010
	400	2280
448.15	150	313
	200	572
	250	1210
	300	1910
	350	2750
	400	3450
473.15	150	705
	200	1680
	250	2960
	300	4340
	350	5840
	400	7280



Source: Miller, D. J.; Hawthorne, S. B. *Anal. Chem.* (1995), 67(2), 273-279.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-53]**

T (K)	P (bar)	y x 10^6
313	70.8	0.49
	75.3	0.87
	81.6	1.66
	82.6	1.96
	85.4	4.20
	87.4	7.39
	88.2	7.06
	92.0	8.72
	106.9	26.70
	111.1	26.50
	124.6	48.60
	144.1	53.60
	167.0	65.10
	208.8	89.80

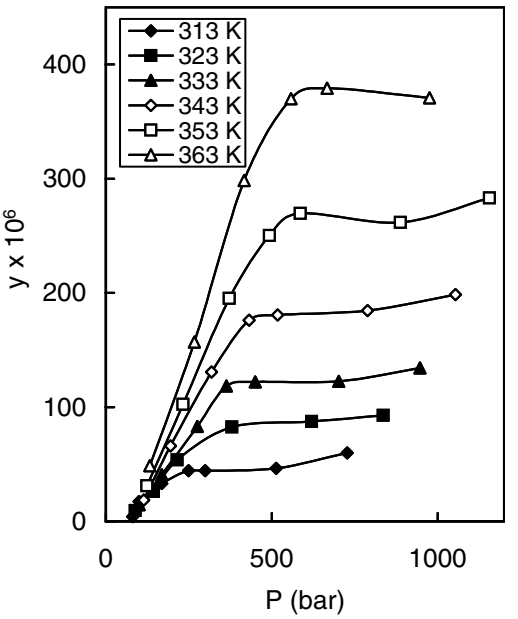


Source: Ngo, T. T.; Bush, D.; Eckert, C. A.; Liotta, C. L. *AIChE J.* (2001), 47(11), 2566-2572.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-54]**

T (K)	P (bar)	M x 10^6 (mol/L)	y1) x 10^6
293.15	69.5	203	11.1
	122.0	326	16.3
	158.0	343	16.6
	334.0	392	17.3
	500.0	611	25.6
298.15	93.9	255	13.9
	152.0	421	21.1
	196.4	433	20.9
	378.6	463	20.4
303.15	119.7	377	20.5
	180.4	538	27.0
	237.5	578	27.8
	422.2	597	26.4
	605.0	991	41.6
308.15	144.3	458	24.9
	212.4	697	35.0
	268.3	724	34.9
	471.7	776	34.2
313.15	80.4	26	4.0
	100.0	249	17.3
	168.4	609	33.2
	249.0	889	44.4
	298.8	918	44.4
	513.1	1050	46.4
	726.8	1430	59.8

318.15	84.4	52	8.2
	194.6	767	41.7
	273.4	1140	57.3
	564.4	1310	57.8
323.15	89.0	59	9.3
	143.9	406	26.0
	215.0	983	53.9
	380.0	1720	82.7
	620.0	1990	87.5
	836.3	2220	92.9
325.65	319.6	1770	89.1
	394.0	1830	88.1
328.15	94.7	74	11.3
	244.7	1230	67.0
	335.0	1840	92.6
	412.0	2030	97.8
	890.9	2670	111.7
330.65	350.6	2100	105.7
333.15	99.8	97	14.6
	168.8	617	40.9
	275.1	1530	83.0
	363.2	2350	118.6
	450.0	2540	122.2
	701.4	2780	122.6
	946.8	3210	134.2
338.15	106.5	112	16.3
	180.3	788	53.0
	294.7	1910	104.2
	397.4	2830	142.5
	483.8	3090	148.8
	748.3	3480	153.4
	999.1	3900	163.1
340.65	413.1	3110	156.6
343.15	113.7	133	18.6
	194.8	977	66.1
	318.2	2390	130.7
	431.2	3500	176.0
	517.8	3750	180.7
	789.0	4180	184.5
	1053.2	4750	198.6
345.65	444.6	3880	195.4
348.15	118.4	164	23.0
	216.7	1230	81.7
	344.6	2950	161.2
	460.4	4170	210.0
	555.5	4570	219.9
	839.5	4970	219.1
	1105.4	5710	238.7
353.15	124.0	223	31.1
	232.3	1540	102.5
	372.1	3580	195.3
	493.2	4970	250.1



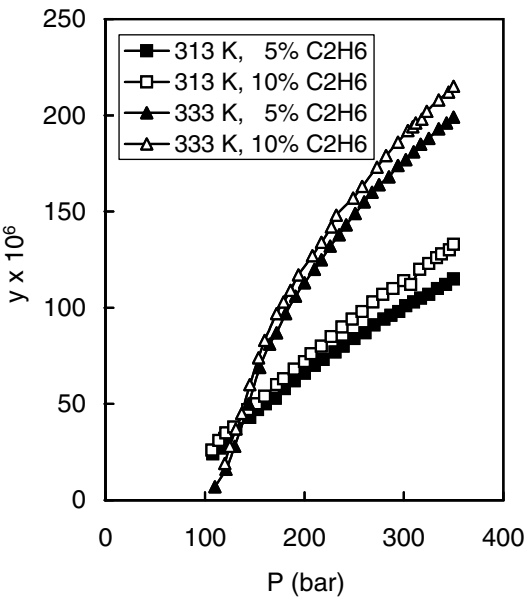
	586.3	5590	269.5
	887.3	5940	261.7
	1156.5	6770	283.1
358.15	129.0	289	40.3
	247.3	1840	122.8
	394.3	4360	238.5
	524.1	6210	312.6
	627.2	6640	319.5
	930.3	7120	313.8
363.15	132.6	344	48.8
	267.0	2370	157.1
	416.7	5440	298.3
	557.9	7360	370.1
	666.7	7890	379.0
	975.7	8410	370.6
368.15	137.0	444	63.2
	272.2	2950	200.1
	444.0	6840	374.4
	588.4	8830	444.1
	1020.5	9930	437.6

1: Calculated from M.
Source: Zerda, T. W.; Wiegand, B.; Jonas, J. *J. Chem. Eng. Data* (1986), 31(3), 274-277.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-55]**

T (K)	P (bar)	Ethane[1)] (mol%)	y x 10^6
313	108	5	24
	115	5	27
	120	5	32
	131	5	37
	145	5	43
	153	5	47
	161	5	50
	171	5	53
	180	5	58
	190	5	62
	200	5	66
	210	5	70
	219	5	73
	231	5	77
	239	5	80
	250	5	84

	261	5	87
	270	5	91
	280	5	94
	287	5	96
	295	5	98
	302	5	101
	310	5	103
	317	5	105
	325	5	107
	334	5	110
	342	5	112
	350	5	115
313	107	10	26
	114	10	31
	121	10	35
	129	10	38
	143	10	47
	152	10	50
	160	10	54
	172	10	60
	179	10	63
	190	10	68
	200	10	72
	207	10	76
	217	10	80
	227	10	85
	238	10	90
	248	10	94
	258	10	98
	269	10	103
	279	10	107
	289	10	110
	300	10	114
	307	10	112
	316	10	120
	325	10	123
	333	10	126
	338	10	128
	346	10	130
	350	10	133
333	110	5	7
	121	5	16
	130	5	28
	144	5	50
	155	5	69
	165	5	81
	172	5	87
	181	5	97
	191	5	106



	200	5	113
	210	5	120
	217	5	125
	226	5	132
	235	5	138
	242	5	143
	251	5	149
	260	5	155
	268	5	160
	275	5	164
	285	5	168
	294	5	174
	302	5	177
	310	5	181
	317	5	185
	325	5	188
	335	5	193
	343	5	196
	350	5	199
333	120	10	19
	125	10	28
	131	10	37
	137	10	45
	145	10	60
	154	10	74
	160	10	83
	172	10	97
	179	10	103
	186	10	109
	194	10	117
	208	10	127
	217	10	134
	227	10	142
	232	10	148
	249	10	157
	258	10	163
	273	10	173
	282	10	179
	294	10	186
	304	10	192
	309	10	194
	312	10	196
	318	10	198
	323	10	202
	335	10	208
	345	10	212
	350	10	215

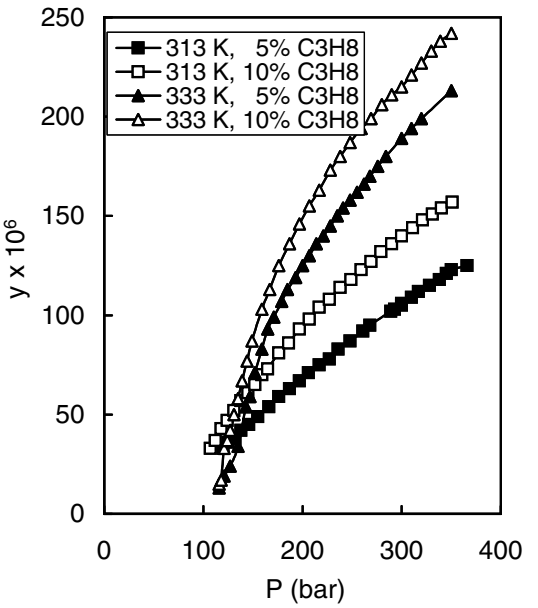
1: Cosolvent in CO_2.

Source : Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-56]**

T (K)	P (bar)	Propane[1)] (mol%)	y x 10^6
313	120	5	33
	125	5	36
	132	5	38
	138	5	42
	146	5	45
	155	5	49
	166	5	54
	176	5	59
	187	5	63
	197	5	67
	206	5	71
	217	5	75
	227	5	78
	236	5	83
	248	5	87
	261	5	92
	268	5	95
	289	5	102
	293	5	103
	300	5	106
	300	5	105
	310	5	109
	317	5	112
	328	5	115
	338	5	118
	345	5	121
	350	5	123
	366	5	125
313	107	10	33
	112	10	37
	118	10	43
	124	10	47
	131	10	52
	138	10	57
	145	10	61
	152	10	65
	159	10	70
	165	10	73
	176	10	81
	186	10	86
	197	10	93
	207	10	98

	217	10	104
	227	10	108
	238	10	114
	249	10	118
	259	10	123
	269	10	127
	279	10	132
	290	10	136
	300	10	140
	311	10	144
	321	10	148
	331	10	151
	340	10	154
	351	10	157
333	116	5	13
	121	5	19
	127	5	24
	135	5	34
	143	5	54
	147	5	59
	152	5	71
	159	5	83
	165	5	93
	171	5	99
	179	5	107
	185	5	113
	193	5	119
	200	5	125
	207	5	130
	214	5	136
	221	5	140
	228	5	145
	235	5	150
	241	5	154
	248	5	158
	255	5	162
	262	5	166
	268	5	170
	276	5	175
	284	5	180
	300	5	189
	310	5	194
	320	5	199
	350	5	213
333	116	10	15
	118	10	17
	121	10	33
	124	10	37
	127	10	42



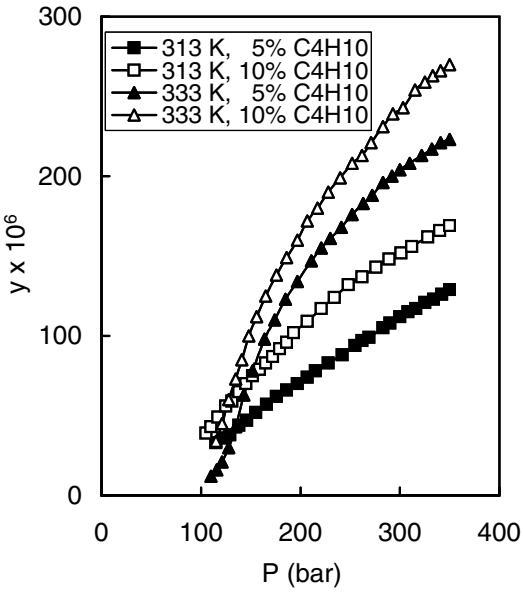
131	10	50
135	10	58
139	10	67
144	10	77
149	10	87
159	10	103
167	10	113
176	10	125
187	10	136
197	10	146
207	10	155
217	10	163
228	10	173
238	10	180
248	10	187
259	10	194
269	10	199
280	10	206
290	10	211
300	10	215
310	10	221
320	10	227
330	10	233
339	10	238
350	10	242

1: Cosolvent in CO_2.
Source: Anitescu, G. ; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-57]**

T (K)	P (bar)	Butane[1)] (mol%)	y x 10^6
313	115	5	33
	122	5	36
	129	5	38
	138	5	44
	146	5	47
	155	5	52
	166	5	57
	176	5	62
	186	5	66
	197	5	70
	207	5	74
	215	5	78

	228	5	83
	242	5	88
	255	5	94
	262	5	97
	269	5	99
	283	5	105
	290	5	108
	300	5	112
	308	5	115
	316	5	117
	325	5	121
	334	5	123
	342	5	126
	350	5	129
313	105	10	39
	110	10	43
	117	10	49
	125	10	56
	131	10	59
	138	10	65
	145	10	70
	152	10	75
	159	10	79
	165	10	83
	172	10	87
	179	10	92
	186	10	96
	193	10	102
	207	10	109
	221	10	117
	234	10	124
	248	10	132
	262	10	137
	276	10	143
	289	10	148
	301	10	152
	312	10	156
	328	10	162
	340	10	166
	350	10	169
333	110	5	12
	116	5	16
	121	5	21
	128	5	30
	135	5	43
	143	5	63
	152	5	78
	164	5	98
	174	5	110
	185	5	123



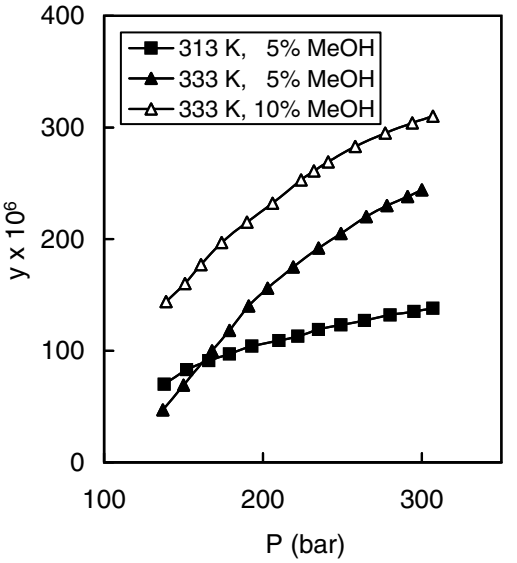
	197	5	134
	211	5	147
	221	5	155
	230	5	161
	241	5	168
333	252	5	176
	263	5	183
	272	5	188
	283	5	196
	292	5	200
	300	5	204
	310	5	208
	322	5	213
	332	5	217
	341	5	221
	350	5	223
333	115	10	34
	121	10	45
	128	10	60
	135	10	73
	141	10	85
	148	10	100
	156	10	112
	165	10	125
	176	10	138
	186	10	149
	197	10	160
	207	10	172
	217	10	180
	228	10	190
	240	10	199
	252	10	208
	262	10	213
	271	10	221
	283	10	231
	293	10	239
	303	10	243
	315	10	254
	325	10	259
	333	10	263
	341	10	266
	350	10	270

1: Cosolvent in CO_2.

Source: Anitescu, G. ; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-58]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	138	5	70
	152	5	83
	166	5	91
	179	5	97
	193	5	104
	210	5	109
	222	5	113
	235	5	119
	249	5	123
	264	5	127
	280	5	132
	295	5	135
	307	5	138
333	137	5	47
	150	5	69
	168	5	100
	179	5	118
	191	5	140
	203	5	156
	219	5	175
	235	5	192
	249	5	205
	265	5	220
	278	5	230
	291	5	238
	300	5	244
333	139	10	144
	151	10	160
	161	10	177
	174	10	197
	190	10	215
	206	10	232
	224	10	253
	232	10	261
	241	10	269
	258	10	283
	277	10	295
	294	10	304
	307	10	310



1: Cosolvent in CO_2.

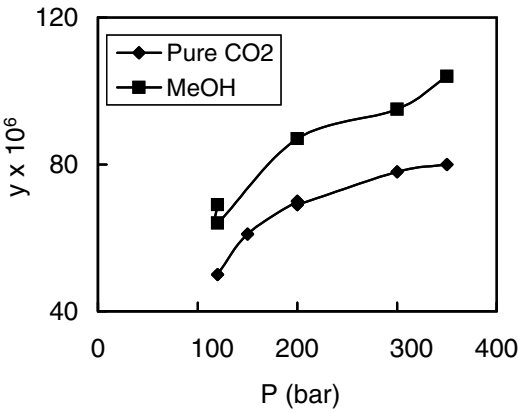
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-59]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
308.15	120	0.0	50
	150	0.0	61
	200	0.0	70
	200	0.0	69
	300	0.0	78
	350	0.0	80
	120	3.5	69
	120	3.5	64
	200	3.5	87
	300	3.5	95
	350	3.5	104

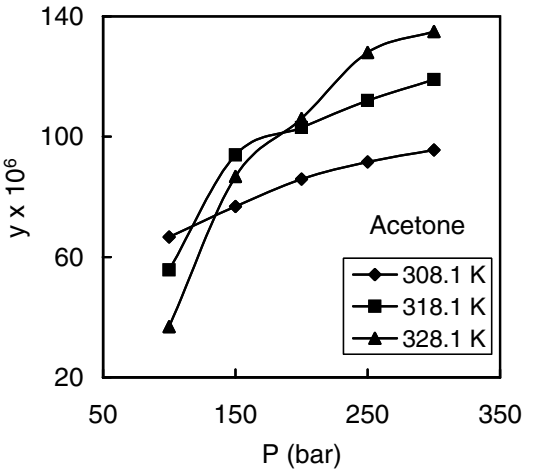
1: Cosolvent in CO_2.

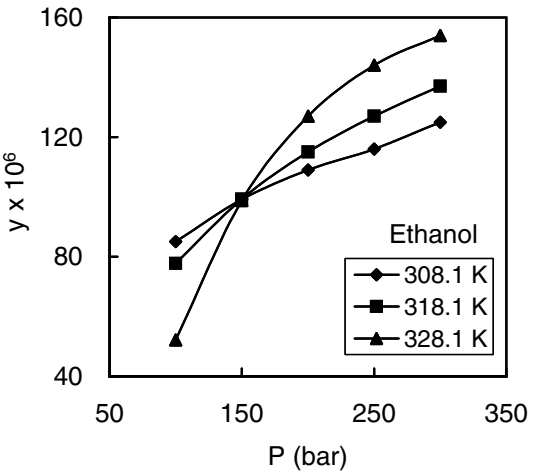
Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.



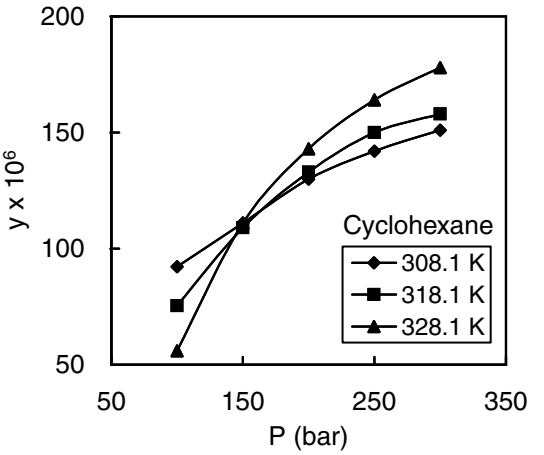
Anthracene ($C_{14}H_{10}$; MW=178.23) **[A-60]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
		Acetone	
308.1	100	4.0	66.6
	150	4.0	76.8
	200	4.0	85.9
	250	4.0	91.6
	300	4.0	95.6
318.1	100	4.0	55.7
	150	4.0	93.9
	200	4.0	103.0
	250	4.0	112.0
	300	4.0	119.0
328.1	100	4.0	36.8
	150	4.0	86.8
	200	4.0	106.0
	250	4.0	128.0
	300	4.0	135.0
		Ethanol	
308.1	100	4.0	85.1
	150	4.0	99.2
	200	4.0	109.0
	250	4.0	116.0
	300	4.0	125.0
318.1	100	4.0	77.8
	150	4.0	99.3
	200	4.0	115.0
	250	4.0	127.0
	300	4.0	137.0





328.1	100	4.0	52.2
	150	4.0	98.8
	200	4.0	127.0
	250	4.0	144.0
	300	4.0	154.0
	Cyclohexane		
308.1	100	4.0	92.2
	150	4.0	111.0
	200	4.0	130.0
	250	4.0	142.0
	300	4.0	151.0
318.1	100	4.0	75.4
	150	4.0	109.0
	200	4.0	133.0
	250	4.0	150.0
	300	4.0	158.0
328.1	100	4.0	56.0
	150	4.0	111.0
	200	4.0	143.0
	250	4.0	164.0
	300	4.0	178.0

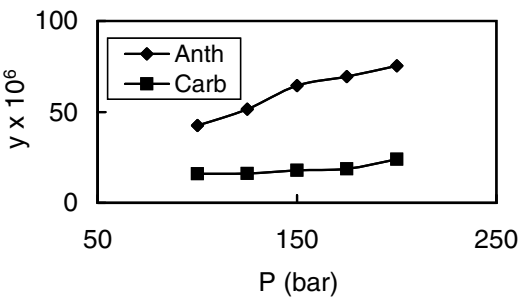


1: Cosolvent in CO_2.
Source: Li, Q.; Zhang, Z.; Zhong, C.; Liu, Y.; Zhou, Q. *Fluid Phase Equil.* (2003), 207(1-2), 183-192.

Anthracene (1) + Carbazole (2) Mixture **[A-61]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
313.1	100	42.6	16.0
	125	51.5	16.2
	150	64.4	18.0
	175	69.5	18.8
	200	75.4	24.0

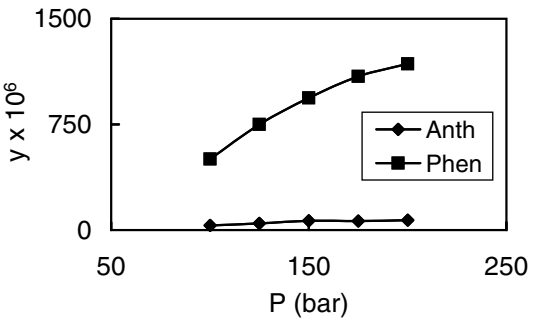
Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.



Anthracene (1) + Phenanthrene (2) Mixture **[A-62]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
313.1	100	33.8	505
	125	48.5	749
	150	66.4	939
	175	64.2	1090
	200	70.2	1180

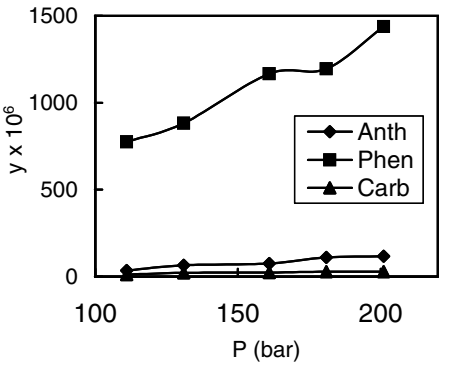
Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.



Anthracene (1) + Phenanthrene (2) + Carbazole (3) Mixture[1)] **[A-63]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$	$y_3 \times 10^6$
308.2	111	35.53	775.7	12.22
	131	65.34	882.8	21.02
	161	74.95	1167.4	23.08
	181	110.9	1196.1	28.25
	201	116.5	1437.7	28.52

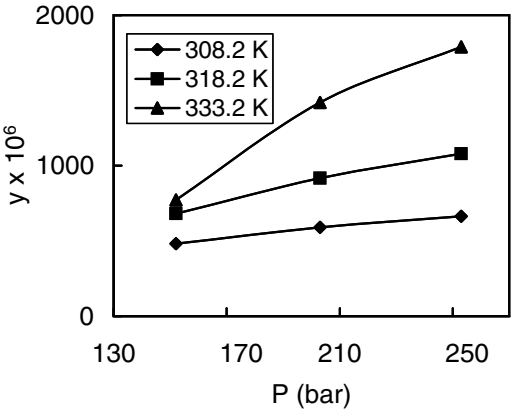
1: The initial composition of 1, 2 and 3 in the solute mixture was 40:40:20(%).
Source: Goodarznia, I.; Esmaeilzadeh, F. *J. Chem. Eng. Data* (2002), 47(2), 333-338.



9,10-Anthraquinone ($C_{14}H_8O_2$; MW=208.22) **[A-64]**

T (K)	P (bar)	y x 10^6
308.2	152	482
	203	590
	253	664
318.2	152	681
	203	917
	253	1080
333.2	152	771
	203	1420
	253	1790

Synonyms: Anthraquinone; 9,10-Anthracenedione
Source: Mishima, K.; Matsuyama, K.; Ishikawa, H.; Hayashi, K-I.; Maeda, S. *Fluid Phase Equil.* (2002), 194-197, 895-904.
Special Note: These data do not agree with the subsequent table.

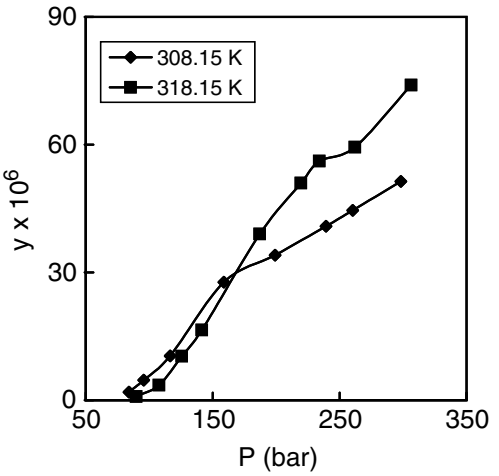


9,10-Anthraquinone ($C_{14}H_8O_2$; MW=208.22) **[A-65]**

T (K)	P (bar)	y x 10^6
308.15	84.1	1.88
	95.6	4.71
	116.4	10.36
	158.8	27.71
	199.1	34.07
	239.2	40.83
	260.3	44.55
	298.2	51.39

318.15	89.6	0.88
	107.7	3.53
	125.6	10.32
	141.4	16.48
	187.1	39.03
	219.5	50.96
	233.9	56.13
	262.1	59.38
	306.3	73.99

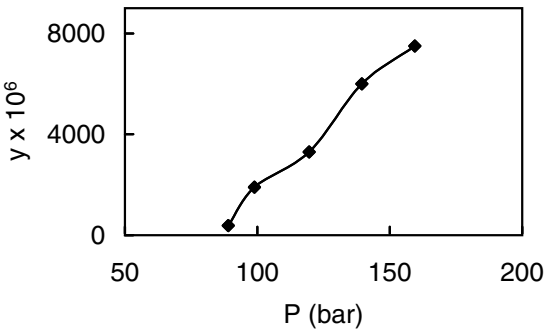
Synonyms: Anthraquinone; 9,10-Anthracenedione
Source: Coutsikos, P.; Magoulas, K.; Tassios, D. *J. Chem. Eng. Data* (1997), 42(3), 463-466.



Arachidonic acid ethyl ester ($C_{22}H_{36}O_2$; MW = 332.52) **[A-66]**

T (K)	P (bar)	y[1)] x 10^6
313	89.0	380
	98.9	1900
	119.6	3300
	139.5	6000
	159.4	7500

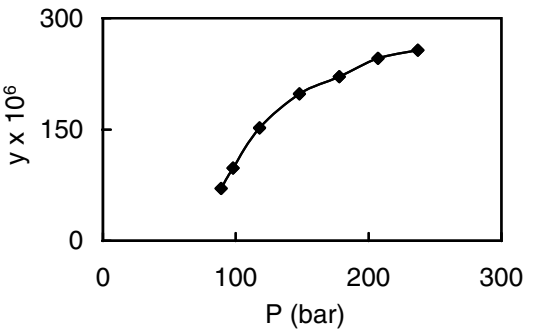
1: Obtained by digitizing the graph in the original article.
Synonyms: Ethyl arachidonate; (all -*Z*)-5,8,11,14-Eicosatetraenoic acid ethyl ester
Source: Liong, K.; Foster, N.; Ting, S. *Ind. Eng. Chem. Res.* (1992), 31(1), 400-404.



Arachidyl alcohol ($C_{20}H_{42}O$; MW=298.55) **[A-67]**

T (K)	P (bar)	y x 10^6
308.15	89	70.5
	98	97.9
	118	152.0
	148	198.0
	178	221.0
	207	246.0
	237	257.0

Synonym: 1-Eicosanol
Source: Iwai, Y.; Koga, Y.; Maruyama, H.; Arai, Y. *J. Chem. Eng. Data* (1993), 38(4), 506-508.



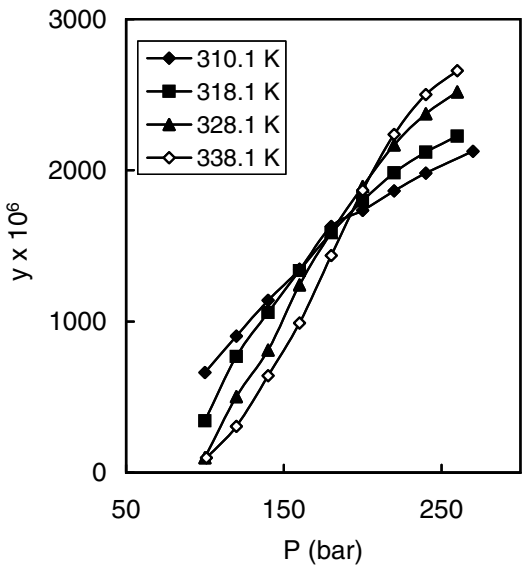
Aroclor 1254[1)] **[A-68]**

T (K)	P (bar)	y x 10^6
313	101	5900
323	114	7500

1: The average molecular weight of the Aroclor 1254 mixture is 326.5.
Synonym: PCB1254
Source: Dooley, K. M.; Ghonasgi, D.; Knopf, F. C.; Gambrell, R. P.
Environ. Progr. (1990), 9(4), 197-203.

Artemisinin ($C_{15}H_{22}O_5$; MW=282.33) **[A-69]**

T (K)	P (bar)	y x 10^6
310.1	100	663
	120	903
	140	1139
	160	1346
	180	1629
	200	1734
	220	1864
	240	1982
	270	2125
318.1	100	342
	120	768
	140	1060
	160	1337
	180	1587
	200	1799
	220	1983
	240	2120
	260	2226
328.1	100	99
	120	502
	140	810
	160	1242
	180	1591
	200	1893
	220	2169
	240	2375
	260	2519
338.1	101	98
	120	307
	140	642
	160	990

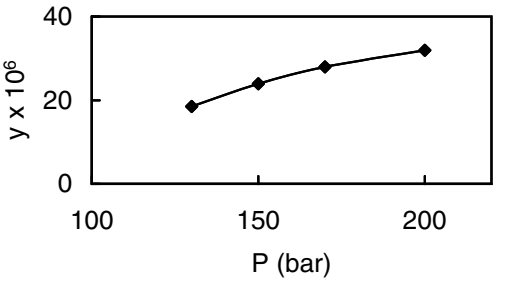


180	1437
200	1868
220	2238
240	2501
260	2659

Synonym: (3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one
Source: Xing, H.; Yang, Y.; Su, B.; Huang, M.; Ren, Q. *J. Chem. Eng. Data* (2003), 48(2), 330-332.

Ascorbic acid ($C_6H_8O_6$; MW=176.12) **[A-70]**

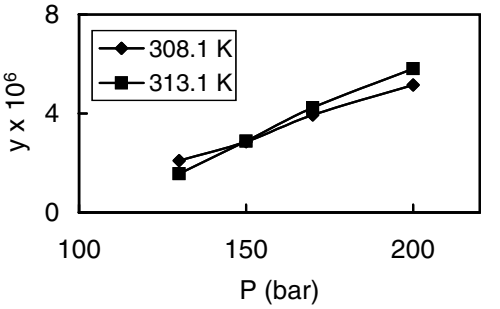
T (K)	P (bar)	y x 10^6
313.1	130	18.5
	150	23.9
	170	28.0
	200	31.9



Synonym: Vitamin C
Source: Cortesi, A.; Kikic, I.; Alessi, P.; Turtoi, G.; Garnier, S. *J. Supercrit. Fluids* (1999), 14(2), 139-144.

Ascorbyl palmitate ($C_{22}H_{38}O_7$; MW=414.53) **[A-71]**

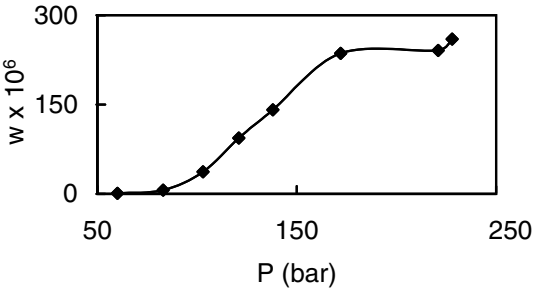
T (K)	P (bar)	y x 10^6
308.1	130	2.10
	150	2.86
	170	3.94
	200	5.15
313.1	130	1.57
	150	2.88
	170	4.24
	200	5.81



Synonyms: Ascorbic acid 6-palmitate; L-Ascorbic acid 6-hexadecanoate
Source: Cortesi, A.; Kikic, I.; Alessi, P.; Turtoi, G.; Garnier, S. *J. Supercrit. Fluids*(1999), 14(2), 139-144.

Aspirin ($C_9H_8O_4$; MW=180.16) **[A-72]**

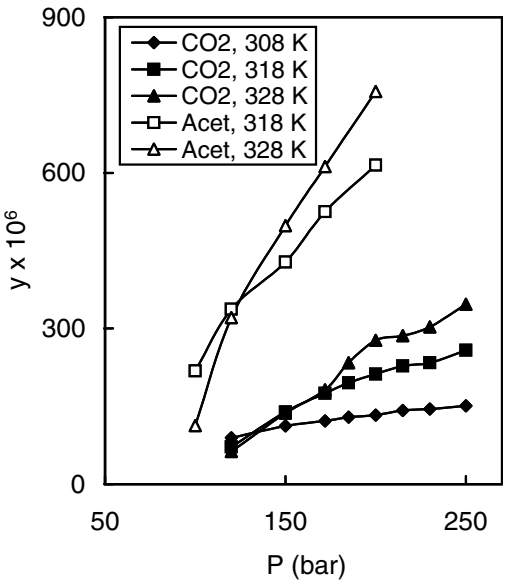
T (K)	P (bar)	w x 10^6
318	60	1.2
	83	6.3
	103	37.1
	121	94.0
	138	141.0
	172	236.0
	221	241.0
	228	260.0



Synonyms: 2-Acetoxybenzoic acid; Acetylsalicylic acid
Source: Tavana, A.; Randolph, A. D. *AIChE Symp. Ser.* (1991), 87 (284, Part. Des. Cryst.), 5-15.

Aspirin ($C_9H_8O_4$; MW=180.16) **[A-73]**

T (K)	P (bar)	Acetone[1)] (mol%)	y x 10^6
308.15	120	0.0	89
	150	0.0	112
	172	0.0	122
	185	0.0	129
	200	0.0	133
	215	0.0	142
	230	0.0	145
	250	0.0	151
318.15	120	0.0	72
	150	0.0	139
	172	0.0	175
	185	0.0	195
	200	0.0	212
	215	0.0	228
	230	0.0	234
	250	0.0	258
328.15	120	0.0	63
	150	0.0	137
	172	0.0	182
	185	0.0	234
	200	0.0	277
	215	0.0	286
	230	0.0	303
	250	0.0	347
318.15	100	3.0	218
	120	3.0	337
	150	3.0	428
	172	3.0	525
	200	3.0	615

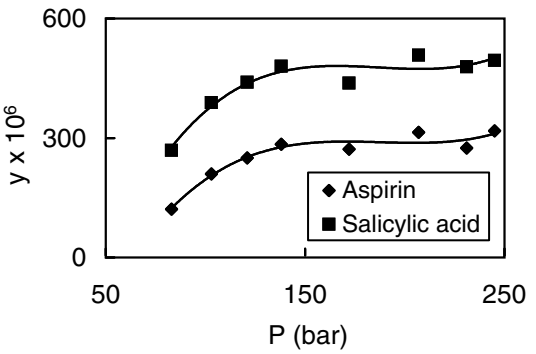


328.15	100	3.0	113
	120	3.0	321
	150	3.0	498
	172	3.0	612
	200	3.0	757

1: Cosolvent in CO_2.
Synonyms: 2-Acetoxybenzoic acid; Acetylsalicylic acid
Source: Huang, Z.; Lu, W. D.; Kawi, S.; Chiew, Y. C. *J. Chem. Eng. Data* (2004), 49(5), 1323-1327.

Aspirin (1) + Salicylic acid (2) Mixture **[A-74]**

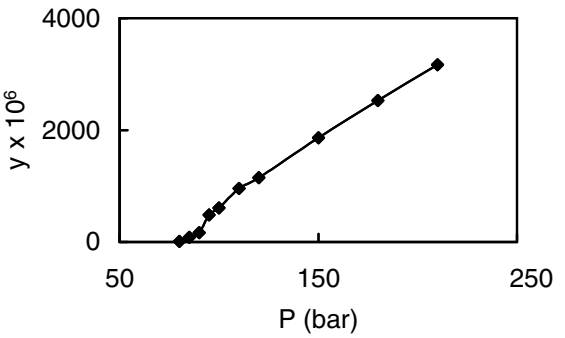
T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
318	83	121	269
	103	210	389
	121	250	440
	138	284	480
	172	272	438
	207	314	508
	231	275	479
	245	318	495



Source: Tavana, A.; Randolph, A. D. *AIChE Symp. Ser.* (1991), 87 (284, Part. Des. Cryst.), 5-15.

Atratone ($C_9H_{17}N_5O$; MW=211.26) **[A-75]**

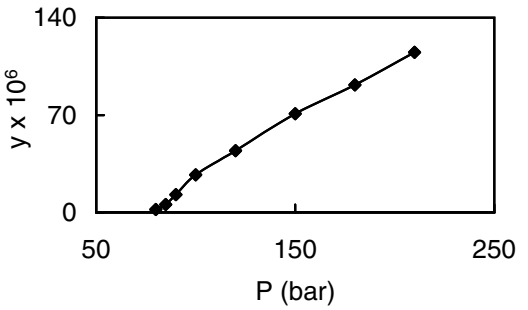
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.01	8
	85	0.15	86
	90	0.40	168
	95	1.36	483
	100	1.85	608
	110	3.16	958
	120	3.98	1150
	150	7.00	1860
	180	10.00	2530
	210	13.00	3170



1: Obtained by digitizing the original graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2-Ethylamino-4-isopropylamino-6-methoxy-*s*-triazine
Source: Rodrigues, S. V.; Nepomuceno, D.; Martins, L. V.; Baumann, W. -61.*Fresenius' J. Anal. Chem.* (1998), 360(1), 58-61.

Atrazine ($C_8H_{14}ClN_5$; MW=215.68) **[A-76]**

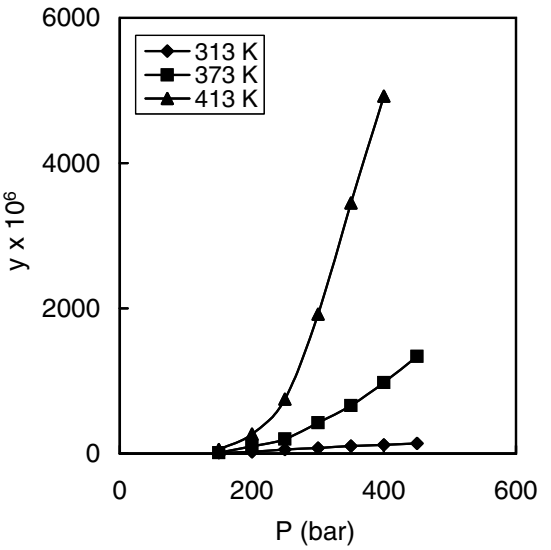
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.003	2.1
	85	0.010	5.6
	90	0.031	12.7
	100	0.084	27.0
	120	0.156	44.3
	150	0.272	71.0
	180	0.369	91.6
	210	0.479	115.0



1: Obtained by digitizing the original graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazine
Source: Rodrigues, S. V.; Nepomuceno, D.; Martins, L.V.; Baumann, W. *Fresenius' J. Anal. Chem.* (1998), 360(1), 58-61.

Atrazine ($C_8H_{14}ClN_5$; MW=215.68) **[A-77]**

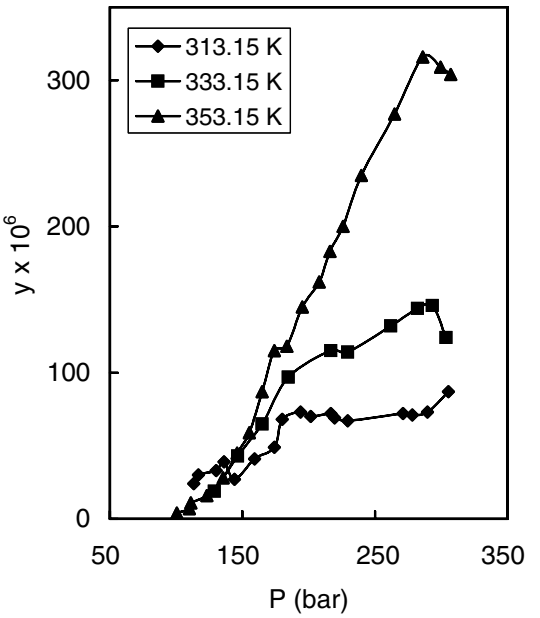
T (K)	P (bar)	y x 10^6
313	150	14
	200	23
	250	55
	300	78
	350	104
	400	122
	450	141
373	150	12
	200	101
	250	202
	300	426
	350	661
	400	976
	450	1340
413	150	57
	200	267
	250	750
	300	1920
	350	3450
	400	4920



Synonym: 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazine
Source: Miller, D. J.; Hawthrone, S. B.; Clifford, A. A. *J. Supercrit. Fluids*(1997), 10(1), 57-63.

Atrazine ($C_8H_{14}ClN_5$; MW=215.68) **[A-78]**

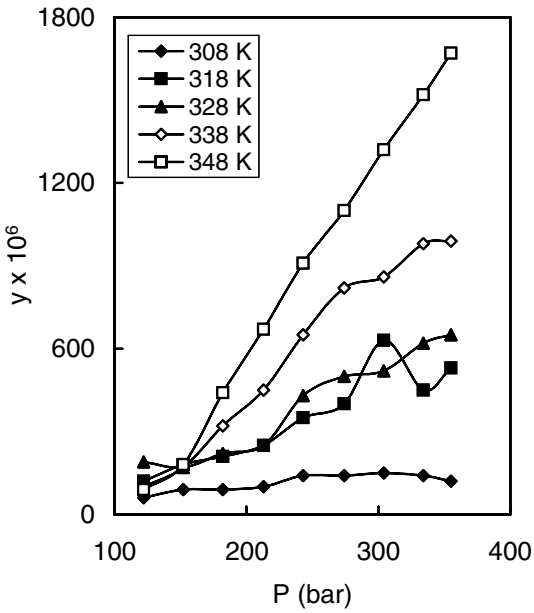
T (K)	P (bar)	$y^{1)} \times 10^6$
313.15	113.3	24
	116.8	30
	130.1	33
	136.0	39
	144.1	27
	159.2	41
	174.2	49
	180.1	68
	193.9	73
	201.5	70
	216.6	72
	219.6	69
	229.4	67
	271.2	72
	278.1	71
	289.6	73
	305.4	87
333.15	128.9	19
	146.4	43
	165.0	65
	184.7	97
	216.6	115
	229.4	114
	261.8	132
	282.2	144
	293.3	146
	303.6	124
353.15	100.5	4
	109.9	7
	111.0	11
	123.2	16
	135.4	28
	145.9	45
	155.1	59
	165.0	87
	174.2	115
	183.6	118
	195.1	145
	207.9	162
	216.0	183
	225.8	200
	239.8	235
	264.8	277
	286.2	316
	299.5	309
	307.1	304



1: Obtained by digitizing the graph in the original article.
Synonym: 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazine
Source: Knez, Z.; R izner-Hras, A.; K okot, K .;
Bauman, D. *Fluid Phase Equil.* (1998), 152(1), 95-108.

Atropine ($C_{17}H_{23}NO_3$, MW=289.37) **[A-79]**

T (K)	P (bar)	S[1)] (g/L)	y[1)] x 10^6
308	122	0.32	60
	152	0.47	90
	182	0.53	90
	213	0.58	100
	243	0.80	140
	274	0.81	140
	304	0.92	150
	334	0.87	140
	355	0.75	120
318	122	0.52	120
	152	0.87	180
	182	1.09	210
	213	1.37	250
	243	1.96	350
	274	2.28	400
	304	3.72	630
	334	2.70	450
	355	3.19	530
328	122	0.60	190
	152	0.74	170
	182	1.07	220
	213	1.25	250
	243	2.30	430
	274	2.75	500
	304	2.91	520
	334	3.53	620
	355	3.75	650
338	122	0.30	100
	152	0.63	170
	182	1.37	320
	213	2.13	450
	243	3.24	650
	274	4.25	820
	304	4.59	860
	334	5.39	980
	355	5.51	990
348	122	0.20	90
	152	0.56	180
	182	1.70	440
	213	2.86	670
	243	4.21	910
	274	5.38	1100
	304	6.69	1320
	334	7.99	1520
	355	8.92	1670



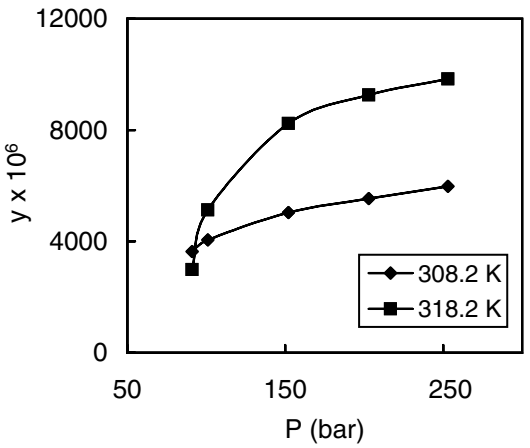
1: The solubility at 348 K and 122 bar must have been misprinted and thus was re-calculated from S in the source table.

Synonym: Tropine tropate

Source: Yamini, Y.; Hassan, J.; Haghgo, S. *J. Chem. Eng. Data* (2001), 46(2), 451-455.

Azobenzene ($C_{12}H_{10}N_2$; MW=182.22) **[A-80]**

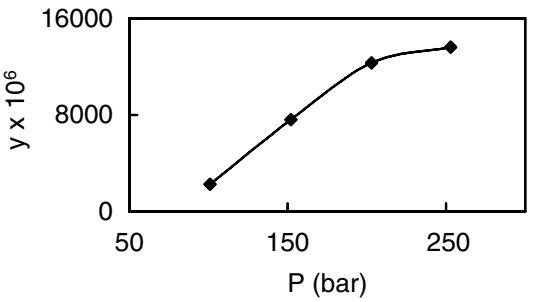
T (K)	P (bar)	y x 10^6
308.2	91	3640
	101	4060
	152	5040
	203	5540
	253	5980
318.2	91	2990
	101	5130
	152	8240
	203	9260
	253	9840



Synonym: Diphenyldiazene
Source: Maeda, S.; Mishima, K.; Matsuyama, K.; Baba, M.; Hirabaru, T.; Ishikawa, H.; Hayashi, K.-I. *J. Chem. Eng. Data* (2001), 46(3), 647-650.

Azobenzene ($C_{12}H_{10}N_2$; MW=182.22) **[A-81]**

T (K)	P (bar)	y x 10^6
333.2	101	2250
	152	7600
	203	12300
	253	13600



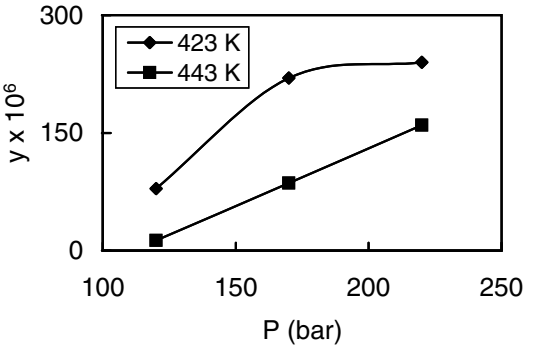
Synonym: Diphenyldiazene
Source: Mishima, K.; Matsuyama, K.; Ishikawa, H.; Hayashi, K-I.; Maeda, S. *Fluid Phase Equil.* (2002), 194-197, 895-904.

2 Solubility Data B

Barium bis(hexafluoroacetylacetonate) ($C_{10}H_2BaF_{12}O_4$; FW = 551.43) **[B-1]**

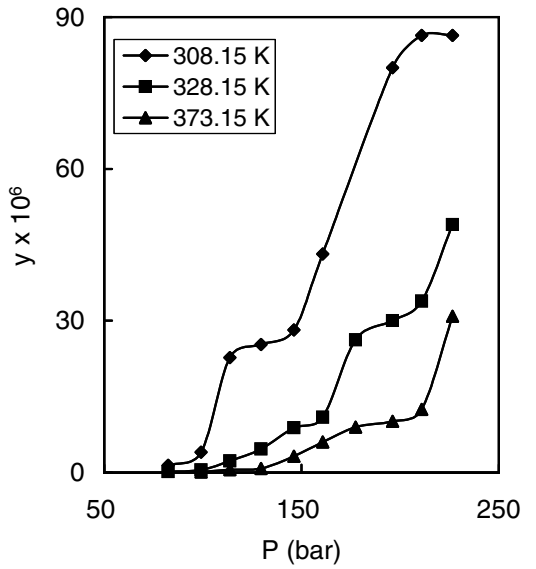
T (K)	P (bar)	y x 10^6
423.15	120	79
	170	220
	220	240
443.15	120	13
	170	86
	220	160

Synonym: Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)barium
Source: M'Hamdi, R.; Bocquet, J.; Chhor, K.; Pommier, C. *J. Supercrit. Fluids* (1992), 5(1), 55-59.



Beclomethasone-17, 21-dipropionate ($C_{28}H_{37}ClO_7$; MW=521.04) **[B-2]**

T (K)	P (bar)	y[1)] x 10^6
308.15	82.4	1.46
	99.0	4.00
	113.8	22.70
	129.4	25.30
	146.1	28.20
	160.8	43.20
	196.1	80.00
	210.8	86.40
	226.5	86.40
328.15	82.4	0.19
	99.0	0.50
	113.8	2.30
	129.4	4.68
	146.1	8.88
	160.8	10.90
	177.5	26.20
	196.1	30.00
	210.8	33.90
	226.5	49.00



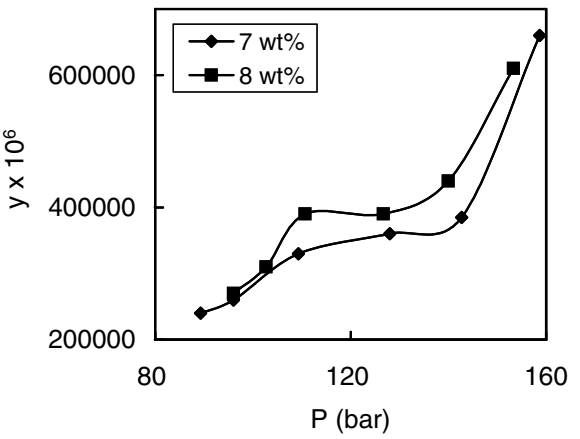
373.15	99.0	0.12
	113.8	0.55
	129.4	0.80
	146.1	3.21
	160.8	6.01
	177.5	8.95
	196.1	10.10
	210.8	12.50
	226.5	30.90

1: The solubilities at 129.4 and 146.1 bar at 373.15 K were misprinted in the journal and thus corrected with the authors' consent.
Synonym: 9α-Chloro-16β-methylprednisolone 17,21-dipropionate
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Beef shank fat **[B-3]**

T (K)	P (bar)	Propane[1)] (wt%)	y x 10^6
308	89.3	7.0	240000
	96.0	7.0	260000
	109.3	7.0	330000
	128.0	7.0	360000
	142.7	7.0	385000
	158.7	7.0	660000
308	96.0	8.0	270000
	102.7	8.0	310000
	110.7	8.0	390000
	126.7	8.0	390000
	140.0	8.0	440000
	153.3	8.0	610000

1: Cosolvent in CO_2.
Source: Acosta, G. M.; Smith, R. L. Jr.; Walsh, J. E.; Boni, K. A. *J. Food Sci.* (1995), 60(5), 983-987.



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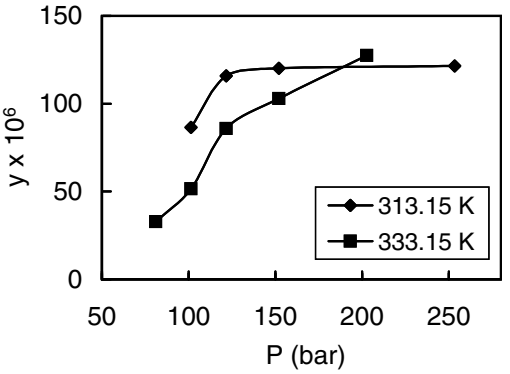
Behenic acid ($C_{22}H_{44}O_2$; MW=340.58) **[B-4]**

T(K)	P(bar)	S (g/L)	y[1)] x 10^6
313.15	101.3	0.43	87
	121.6	0.65	116
	152.0	0.73	120
	253.3	0.83	121
333.15	81.1	0.05	33
	101.3	0.12	52
	121.6	0.30	86
	152.0	0.49	103
	202.7	0.72	127

1: Calculated from S.

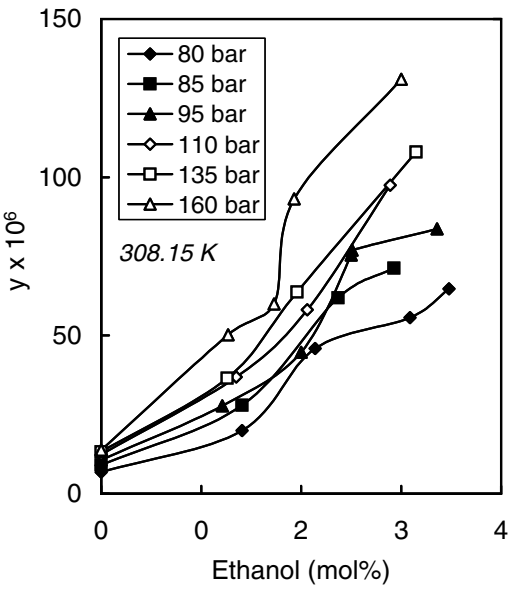
Synonym: Docosanoic acid

Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



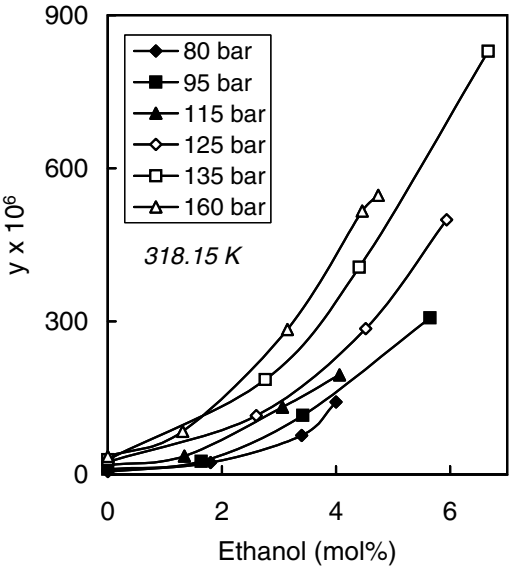
Behenic acid ($C_{22}H_{44}O_2$; MW=340.58) **[B-5]**

T(K)	P(bar)	Ethanol[1)] (mol%)	y x 10^6
308.15	80	0.00	6.8
		1.41	20.0
		2.14	45.9
		3.09	55.6
		3.48	64.7
	85	0.00	9.1
		1.41	28.0
		2.37	61.9
		2.93	71.3
	95	0.00	10.7
		1.21	27.8
		2.00	44.7
		2.50	75.4
		2.51	77.0
		3.36	83.7
	110	0.00	12.3
		1.35	36.9
		2.06	58.1
		2.89	97.5
	135	0.00	13.2
		1.26	36.5
		1.96	63.7
		3.15	108.0
	160	0.00	13.8
		1.27	50.2
		1.73	60.0
		1.93	93.2
		3.00	131.0



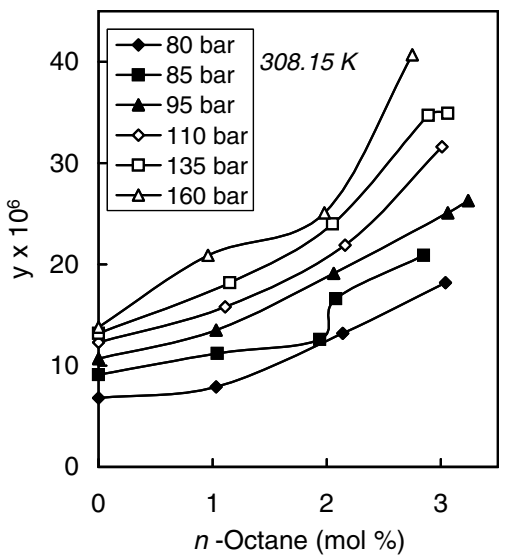
318.15	80	0	5.8
		1.80	23.4
		3.40	76.3
		5.47	142.0
	95	0	10.5
		1.64	25.6
		3.42	116.0
		5.65	307.0
	115	0	18.4
		1.34	36.2
		3.06	132.0
		4.06	195.0
	125	0	24.4
		2.60	115.0
		4.52	286.0
		5.94	499.0
	135	0	29.2
		2.76	186.0
		4.41	406.0
		6.67	829.0
	160	0	35.1
		1.31	84.2
		3.15	284.0
		4.46	516.0
		4.74	547.0

1: Cosolvent in CO_2.
Synonym: Docosanoic acid
Source: Guan, B.; Liu, Z.; Han, B.; Yan, H. *J. Supercrit. Fluids* (1999), 14(3), 213-218.

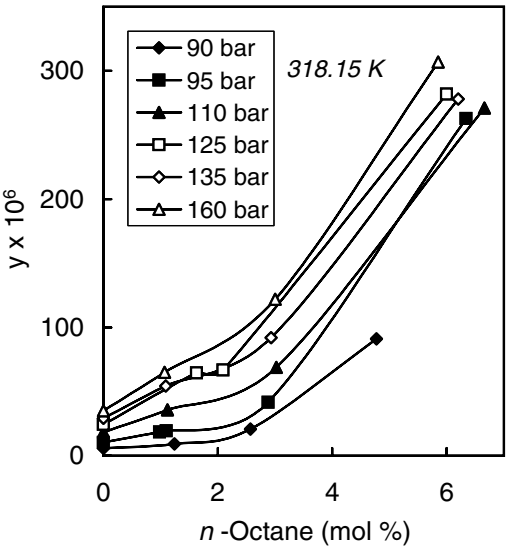


Behenic acid ($C_{22}H_{44}O_2$; MW=340.58) **[B-6]**

T (K)	P(bar)	*n* -Octane[1)] (mol%)	y x 10^6
308.15	80	0.00	6.8
		1.03	7.9
		2.14	13.2
		3.04	18.2
	85	0.00	9.1
		1.04	11.2
		1.94	12.6
		2.08	16.6
		2.85	20.9
	95	0.00	10.7
		1.03	13.5
		2.06	19.1
		3.06	25.1
		3.24	26.3
	110	0.00	12.3
		1.11	15.8
		2.16	21.9
		3.01	31.6



	135	0.00	13.2
		1.15	18.2
		2.05	24.0
		2.89	34.7
		3.06	34.9
	160	0.00	13.8
		0.96	20.9
		1.98	25.1
		2.75	40.7
318.15	90	0.00	5.8
		1.24	9.4
		2.57	20.8
		4.77	91.1
	95	0.00	10.5
		0.98	18.6
		1.10	19.5
		2.88	41.7
		6.34	263.0
	110	0.00	18.4
		1.12	35.9
		3.02	69.0
		6.66	271.0
	125	0.00	24.4
		1.63	64.7
		2.09	67.0
		6.00	282.0
	135	0.00	29.2
		1.09	54.5
		2.93	92.0
		6.20	278.0
	160	0.00	35.1
		1.07	65.1
		3.00	122.0
		5.85	307.0

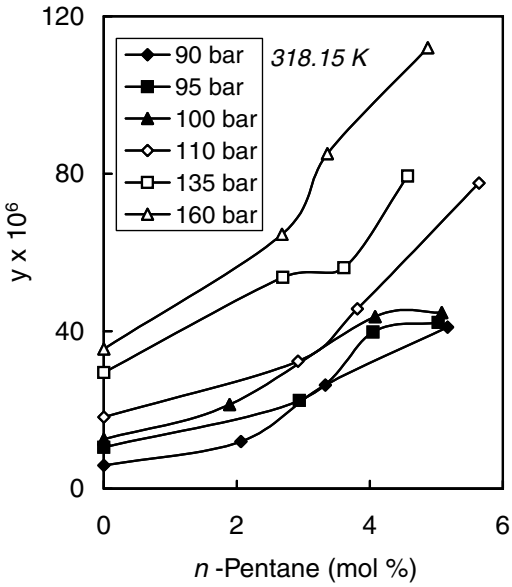


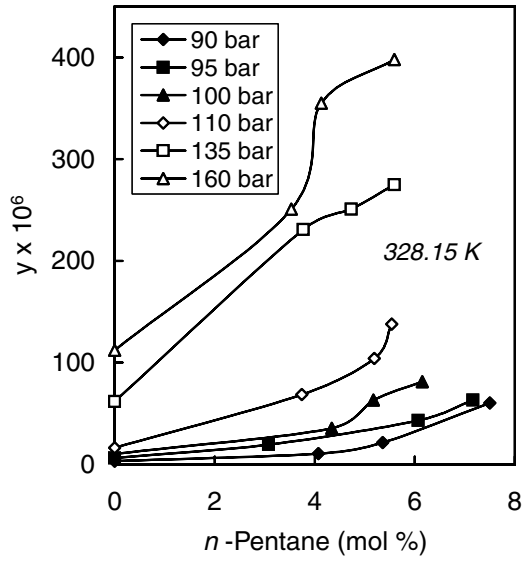
1: Cosolvent in CO_2.
Synonym: Docosanoic acid
Source: Guan, B.; Liu, Z.; Han, B.; Yan, H. *J. Chem. Eng. Data* (1999), 44(6), 1204-1206.

Behenic acid ($C_{22}H_{44}O_2$; MW=340.58) **[B-7]**

T (K)	P (bar)	*n* -Pentane[1)] (mol%)	y x 10^6
318.15	90	0.00	5.9
		2.06	12.0
		3.33	26.3
		5.17	41.0

	95	0.00	10.5
		2.94	22.4
		4.05	39.8
		5.03	42.2
	100	0.00	126.
		1.89	21.4
		4.08	43.7
		5.08	44.7
	110	0.00	18.2
		2.92	32.4
		3.81	45.7
		5.64	77.6
	135	0.00	29.5
		2.69	53.7
		3.61	56.1
		4.57	79.4
	160	0.00	35.5
		2.68	64.6
		3.36	85.1
		4.87	112.0
328.15	90	0.00	3.2
		4.07	10.5
		5.36	21.4
		7.50	60.3
	95	0.00	6.3
		3.08	19.5
		6.07	43.3
		7.16	63.1
	100	0.00	10.2
		4.34	35.5
		5.17	63.1
		6.15	81.3
	110	0.00	16.3
		3.74	68.7
		5.19	104.0
		5.54	138.0
	135	0.00	61.7
		3.77	231.0
		4.73	251.0
		5.59	275.0
	160	0.00	112.0
		3.53	251.0
		4.13	355.0
		5.59	398.0



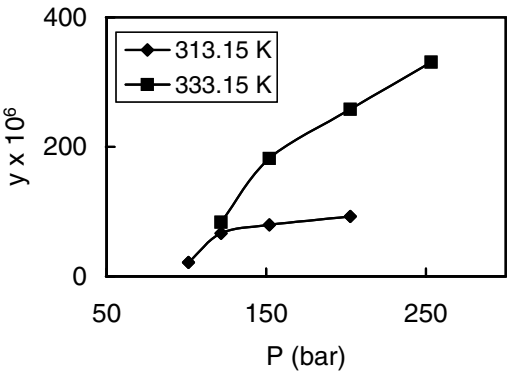


1: Cosolvent in CO_2.
Synonym: Docosanoic acid
Source: Guan, B.; Liu, Z.; Han, B.; Yan, H. *J. Chem. Eng. Data* (1999), 44(6), 1204-1206.

Behenyl behenate ($C_{44}H_{88}O_2$; MW=649.17) **[B-8]**

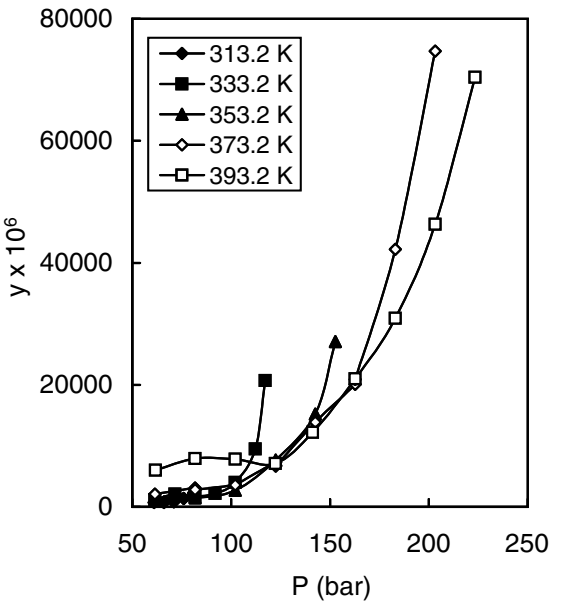
T(K)	P(bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	101.3	0.204	21.5
	121.6	0.310	66.6
	152.0	0.400	79.4
	202.7	0.501	92.5
333.15	121.6	0.242	83.5
	152.0	0.719	182.0
	202.7	1.210	258.0
	253.3	1.680	331.0

1: Calculated from S.
Synonym: Docosyl docosanoate
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



Benzaldehyde (C_7H_6O; MW=106.12) **[B-9]**

T (K)	P (bar)	y x 10^6
313.2	61.0	700
	66.0	700
	66.0	800
	71.0	900
	71.1	800
	76.1	1400
	76.1	1400
	81.1	2200
	81.1	2300
333.2	61.5	1200
	71.7	2100
	81.8	1700
	91.9	2200
	102.1	4000
	112.2	9500
	117.3	20700
353.2	61.5	1500
	81.8	1500
	102.1	2700
	122.5	7700
	142.6	15200
	152.7	27100
373.2	61.5	2100
	81.8	3100
	81.8	2800
	102.1	3600
	102.1	3600
	122.5	7300
	122.5	6700
	142.6	13900
	162.8	20100
	162.8	20900
	183.0	42200
	203.2	74700



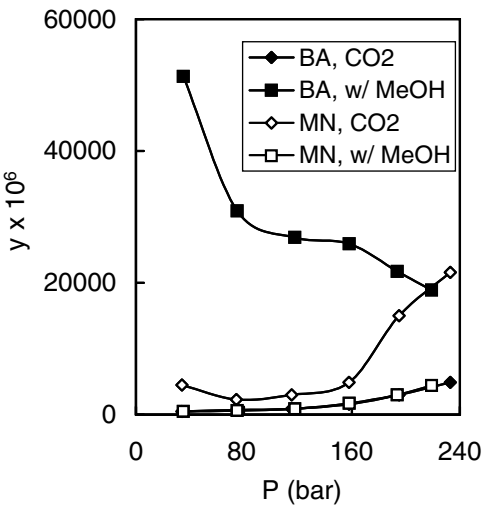
393.2	61.7	6000
	81.8	7900
	102.1	7800
	122.4	7100
	141.2	12200
	162.8	21000
	183.0	30900
	203.2	46300
	223.4	70400

Synonym: Benzoic aldehyde
Source: Walther, D.; Maurer, G. *Ber. Bunsenges. Phys. Chem.* (1992), 96(8), 981-988.

Benzaldehyde (1) + 1-Methylnaphthalene (2) Mixture **[B-10]**

T (K)	P (bar)	Methanol[1)] (wt%)	$y_1 \times 10^6$	$y_2 \times 10^6$
372.6	34.1	0	500	4500
	74.4	0	700	2300
	115.4	0	900	3000
	157.8	0	1600	4900
	195.0	0	3000	15000
	232.9	0	4900	21600
373.2	35.2	0.27	51300	500
	75.1	0.24	30900	600
	117.8	0.31	26900	900
	158.2	0.55	25900	1700
	193.6	1.27	21700	3000
	219.1	1.98	18900	4400

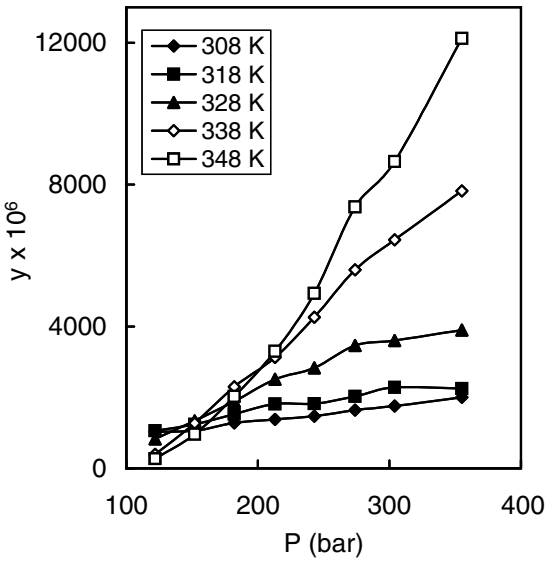
1: Cosolvent in CO_2.
Source: Reilly, J.; Kim, C.; Clark, A.; Donohue, M. *Fluid Phase Equil.* (1992), 73(1-2), 81-107.



Benzocaine ($C_9H_{11}NO_2$; MW=165.19) **[B-11]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	2.98	1030
	152	3.27	1060
	182	4.10	1280
	213	4.56	1380
	243	4.96	1470
	274	5.64	1640
	304	6.26	1760
	355	7.18	2000
318	122	2.63	1060
	152	3.39	1240
	182	4.55	1530
	213	5.62	1810

	243	5.83	1820
	274	6.69	2030
	304	7.64	2280
	355	7.78	2250
328	122	1.61	830
	152	3.31	1340
	182	5.15	1890
	213	7.27	2510
	243	8.50	2830
	274	10.84	3460
	304	11.56	3600
	355	12.99	3900
338	122	0.58	390
	152	2.68	1270
	182	2.67	2300
	213	8.39	3130
	243	12.12	4260
	274	16.61	5600
	304	19.74	6440
	355	25.06	7820
348	122	0.33	270
	152	1.73	960
	182	4.47	2030
	213	8.10	3300
	243	13.06	4930
	274	20.61	7370
	304	25.28	8650
	355	37.35	12120

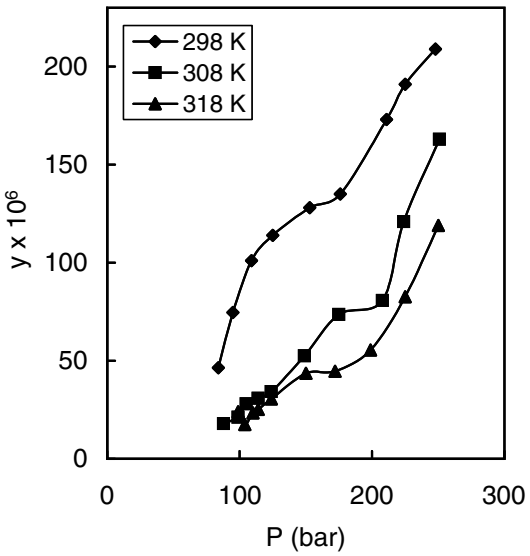


Synonyms: 4-Aminobenzoic acid ethyl ester; Ethyl 4-aminobenzoate
Source: Garmroodi, A.; Hassan, J.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(3), 709-712.

Benzocaine ($C_9H_{11}NO_2$; MW=165.19) **[B-12]**

T (K)	P (bar)	y x 10^6
298	84	46.5
	95	74.7
	109	101.0
	125	114.0
	153	128.0
	176	135.0
	211	173.0
	225	191.0
	248	209.0

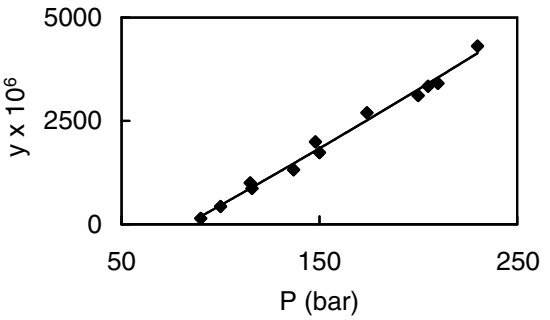
308	88	17.9
	99	21.2
	105	28.0
	114	30.9
	124	34.3
	149	52.5
	175	73.6
	208	80.7
	224	121.0
	251	163.0
318	99	24.0
	104	17.5
	110	23.5
	114	25.2
	124	30.5
	150	43.6
	172	44.6
	199	55.5
	225	82.6
	250	119.0



Synonyms: 4-Aminobenzoic acid ethyl ester; Ethyl 4-aminobenzoate
Source: Weinstein,R. D.;Muske, K. R.; Moriarty, J.; Schmidt, E. K. *J. Chem. Eng. Data* (2004), 49(3), 547-552.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-13]**

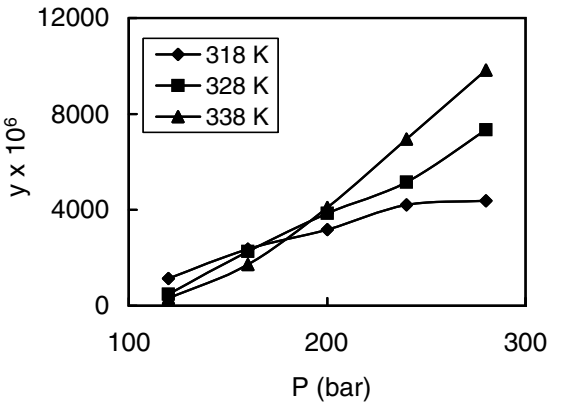
T (K)	P (bar)	y x 10^6
318	90	144
	100	432
	115	1000
	116	868
	137	1320
	148	1990
	150	1730
	174	2700
	200	3110
	205	3340
	210	3410
	230	4310



Source: Galia, A.; Argentino, A.; Scialdone, O.; Filardo, G. *J. Supercrit. Fluids* (2002), 24(1), 7-17.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-14]**

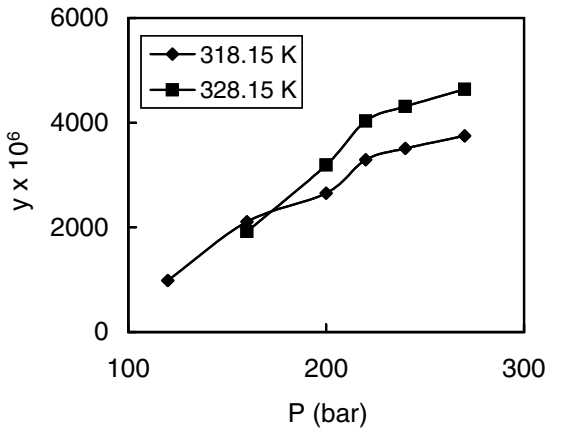
T(K)	P(bar)	y x 10^6
318	120	1140
	160	2370
	200	3180
	240	4210
	280	4380
328	120	490
	160	2270
	200	3860
	240	5160
	280	7340
338	120	320
	160	1720
	200	4100
	240	6950
	280	9830



Source: Kurnik, R. T.; Holla, S. J.; Reid, R. C. *J. Chem. Eng. Data* (1981), 26(1), 47-51.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-15]**

T(K)	P(bar)	y x 10^6
318.15	120	987
	160	2110
	200	2650
	220	3290
	240	3510
	270	3750
328.15	160	1920
	200	3190
	220	4030
	240	4310
	270	4640

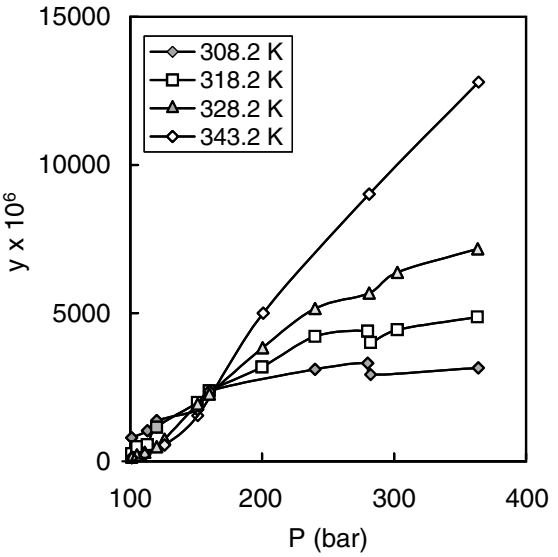


Source: Lee, L.-s.; Huang, J.-f.; Zhu, O.- x. *J. Chem. Eng. Data* (2001), 46(5), 1156-1159.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-16]**

T (K)	P (bar)	y x 10^6
308.25	101.0	800
	113.0	1030
	120.0	1380
	151.0	1740
	160.0	2370
	240.0	3100
	280.0	3310
	282.3	2930
	363.8	3150

318.25	101.0	260
	105.0	493
	113.0	561
	120.0	1150
	151.0	1980
	160.0	2380
	200.0	3180
	240.0	4210
	280.0	4390
	282.3	4010
	302.5	4444
	363.1	4870
328.25	101.0	140
	105.0	220
	111.0	300
	120.0	490
	126.0	750
	151.2	1940
	160.0	2270
	200.4	3830
	240.0	5160
	281.0	5680
	302.5	6380
	363.3	7170
343.25	101.0	122
	111.0	222
	126.0	550
	151.2	1540
	200.9	5000
	281.0	9020
	364.1	12800



Source: Schmitt, W. J.; Reid, R. C. *J. Chem. Eng. Data* (1986), 31(2), 204-212.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-17]**

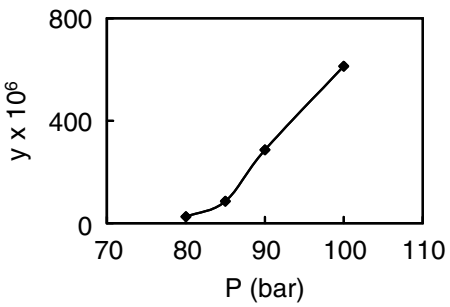
T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	80	0.140	25.5
	85	0.470	85.7
	90	1.570	286.0
	100	3.360	613.0

1: Obtained by digitizing the graph in the original article.

2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.

3: Calculated from S.

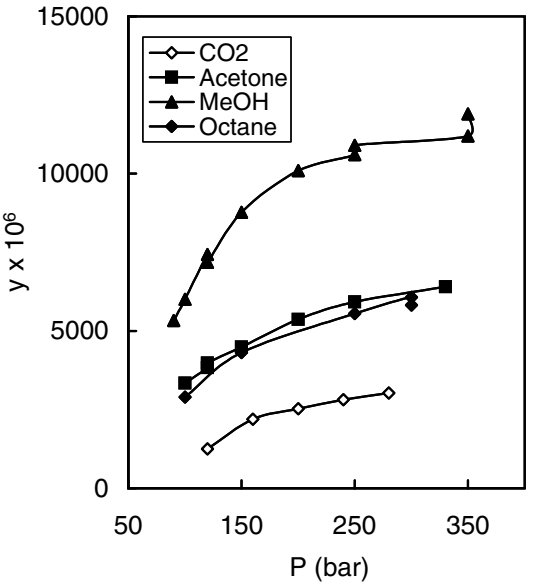
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.



Benzoic acid ($C_7H_6O_2$; MW= 122.12) **[B-18]**

T(K)	P(bar)	Cosolvent (mol%)	y x 10^6
308.15	120	0.0	1250
	160	0.0	2190
	200	0.0	2530
	240	0.0	2810
	280	0.0	3030
		Acetone	
	100	3.5	3340
	120	3.5	3830
	120	3.5	3980
	150	3.5	4490
	200	3.5	5370
	250	3.5	5920
	330	3.5	6400
		Methanol	
	90	3.5	5330
	100	3.5	6010
	120	3.5	7430
	120	3.5	7180
	150	3.5	8770
	200	3.5	10100
	250	3.5	10600
	250	3.5	10900
	350	3.5	11200
	350	3.5	11900
		Octane	
	100	3.5	2900
	150	3.5	4310
	250	3.5	5550
	300	3.5	6070
	300	3.5	5820

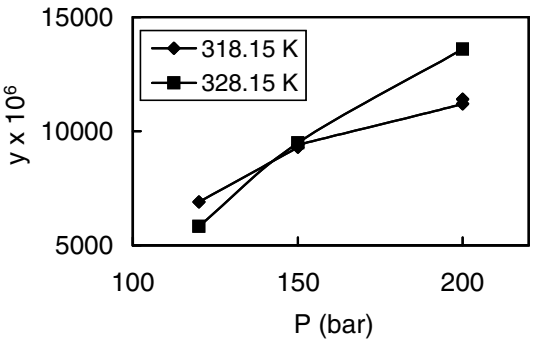
Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.



Benzoic acid ($C_7H_6O_2$; MW= 122.12) **[B-19]**

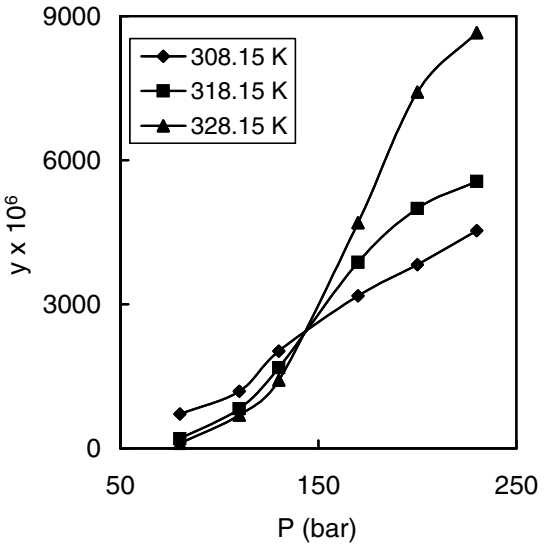
T(K)	P(bar)	Cosolvent (mol%)	y x 10^6
		Methanol (3.5%)	
318.15	120	3.5	6900
	150	3.5	9300
	150	3.5	9400
	200	3.5	11200
	200	3.5	11400
328.15	120	3.5	5830
	150	3.5	9490
	200	3.5	13600

Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.



Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-20]**

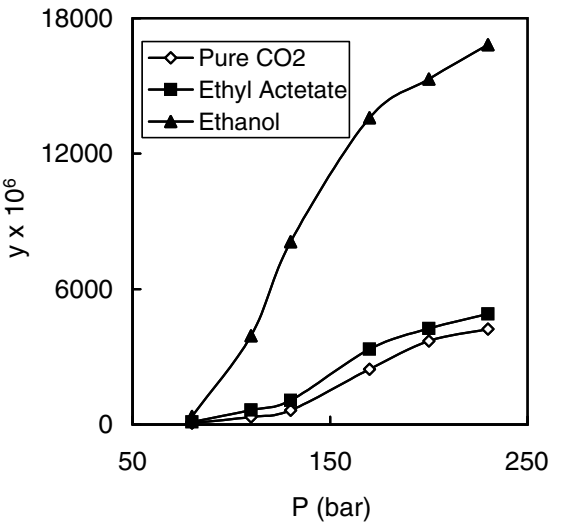
T (K)	P (bar)	EA + EtOH[1)] (mol%)	y x 10^6
308.15	80	2.0	714
	110	2.0	1191
	130	2.0	2022
	170	2.0	3173
	200	2.0	3822
	230	2.0	4532
318.15	80	2.0	203
	110	2.0	823
	130	2.0	1677
	170	2.0	3875
	200	2.0	4991
	230	2.0	5558
328.15	80	2.0	102
	110	2.0	692
	130	2.0	1417
	170	2.0	4696
	200	2.0	7418
	230	2.0	8656



1: Mixed cosolvent in supercritical CO_2 (ethyl acetate and ethanol) with molar ratio of 1:1.
Source: Jin, J.; Zhong, C.; Zhang, Z.; Li, Y. *Fluid Phase Equil.* (2004), 226, 9-13.

Benzoic acid **[B-21]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
328.15	80	0.0	70
	110	0.0	339
	130	0.0	637
	170	0.0	2448
	200	0.0	3698
	230	0.0	4233
		Ethyl Actetate	
	80	2.0	121
	110	2.0	642
	130	2.0	1073
	170	2.0	3335
	200	2.0	4254
	230	2.0	4896
		Ethanol	
	80	2.0	366
	110	2.0	3934
	130	2.0	8092
	170	2.0	13594
	200	2.0	15305
	230	2.0	16821



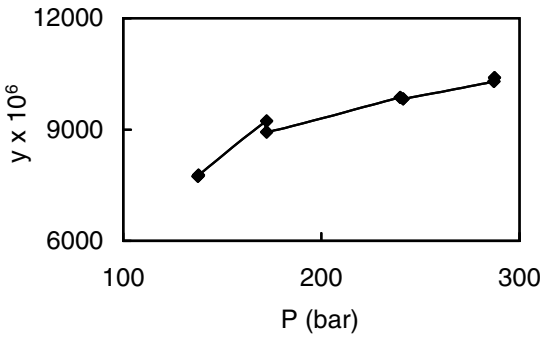
1: Cosolvent in supercritical CO_2.
Source: Jin, J.; Zhong, C.; Zhang, Z.; Li, Y. *Fluid Phase Equil.* (2004), 226, 9-13.

Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-22]**

T (K)	P (bar)	TBP[1)] (mol%)	y x 10^6
308.15	137.8	1.10	7740
	138.1	1.10	7770
	172.4	1.10	9230
	172.4	1.10	8930
	239.8	1.10	9870
	241.2	1.10	9830
	287.1	1.10	10300
	287.4	1.10	10400

1:Tri-*n*-butyl phosphate as a cosolvent in CO_2 on a solute-free basis.

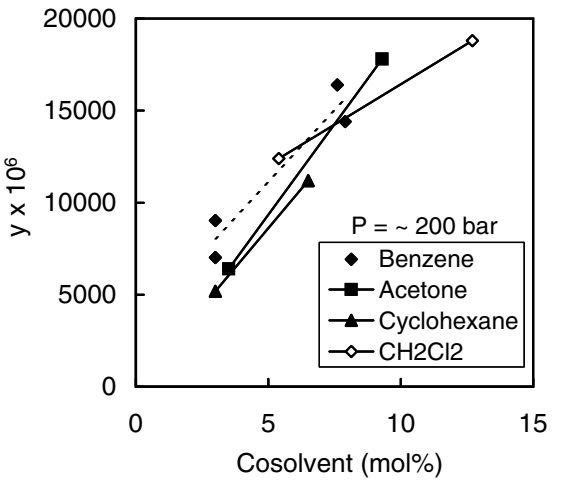
Source: Lemert, R. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1991), 30(6), 1222-1231.



Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-23]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Benzene	
328.15	200.0	3.0	9020
		3.0	7020
		7.6	16400
		7.9	14400
		Acetone	
	202.0	3.5	6410
	202.0	9.3	17800
		Cyclohexane	
	202.0	3.0	5180
	202.0	6.5	11200
		Methylene Chloride	
	202.0	5.4	12400
	202.0	12.7	18800

Source: Schmitt, W. J.; Reid, R. C. *Fluid Phase Equil.* (1986), 32(1), 77-99.

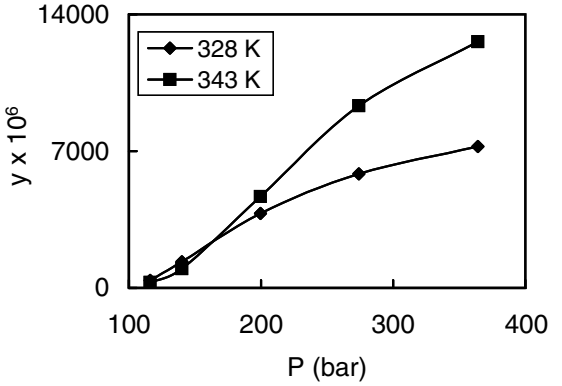


Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-24]**

T (K)	P (bar)	Ethane[1)] (mol%)	y x 10^6
328.15	116.0	6.2	380
	140.0	6.2	1340
	199.5	6.2	3810
	274.0	6.2	5840
	364.0	6.2	7240
343.35	116.0	6.2	290
	140.0	6.2	990
	199.5	6.2	4680
	274.0	6.2	9320
	364.0	6.2	12600

1: Cosolvent in CO_2.

Source: Schmitt, W. J.; Reid, R. C.
Fluid Phase Equil. (1986), 32(1), 77-99.

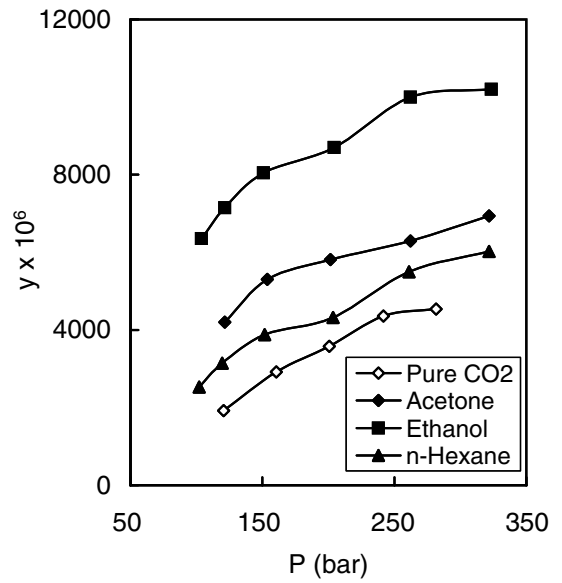


Benzoic acid ($C_7H_6O_2$; MW=122.12) **[B-25]**

T(K)	P[1)] (bar)	Cosolvent[2)] (mol%)	y[1)] x 10^6
318	120.5	0	1920
	160.5	0	2920
	200.6	0	3580
	241.6	0	4360
	281.6	0	4540
		Acetone	
	121.5	3.7	4200
	153.7	3.7	5300
	201.6	3.7	5810
	262.1	3.7	6290
	321.7	3.7	6940
		Ethanol	
	103.9	3.7	6350
	121.5	3.7	7150
	150.8	3.7	8050
	204.5	3.7	8700
	262.1	3.7	10000
	323.6	3.7	10200
		n-Hexane	
	102.0	3.7	2530
	119.5	3.7	3140
	151.8	3.7	3880
	203.5	3.7	4320
	261.1	3.7	5500
	321.7	3.7	6020

1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2 on a solute-free basis.

Source: Zhang, J.; Zhu, M.; Yu, E.; Zhang, Z.
Chinese J. Chem. Eng. (1993), 1(4), 239-246.

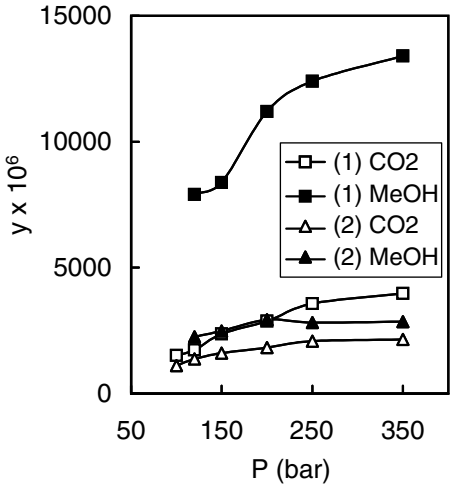


Benzoic acid (1) + Hexamethylbenzene (2) Mixture[1] **[B-26]**

T(K)	P(bar)	Methanol[2] (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.15	100	0.0	1510	1110
	120	0.0	1730	1380
	150	0.0	2370	1610
	200	0.0	2880	1830
	250	0.0	3570	2080
	350	0.0	3980	2150
	120	3.5	7900	2250
	150	3.5	8380	2480
	200	3.5	11200	2930
	250	3.5	12400	2820
	350	3.5	13400	2850

1: The solubility was measured from a mixture of solids 1 and 2 of 50:50 wt%.
2: Cosolvent in CO_2.

Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.

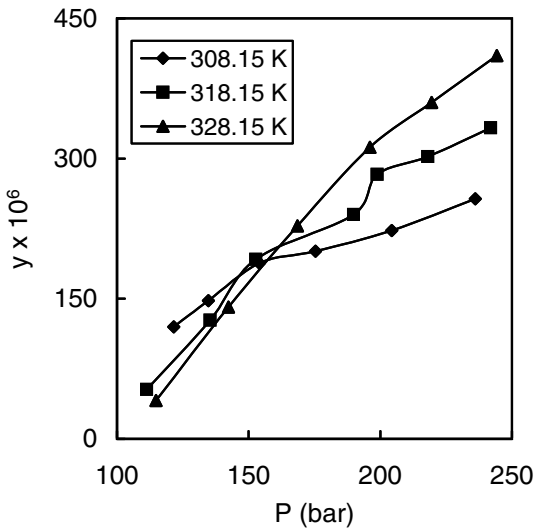


Benzoin ($C_{14}H_{12}O_2$; MW=212.24) **[B-27]**

T (K)	P (bar)	y × 10^6
308.15	121.6	120
	134.7	148
	154.0	188
	175.4	201
	204.4	223
	236.1	257
318.15	111.3	53
	135.4	127
	152.7	192
	189.9	240
	198.8	283
	218.1	302
	241.9	333
328.15	114.8	41
	142.3	141
	168.5	228
	196.1	312
	219.5	360
	244.3	410

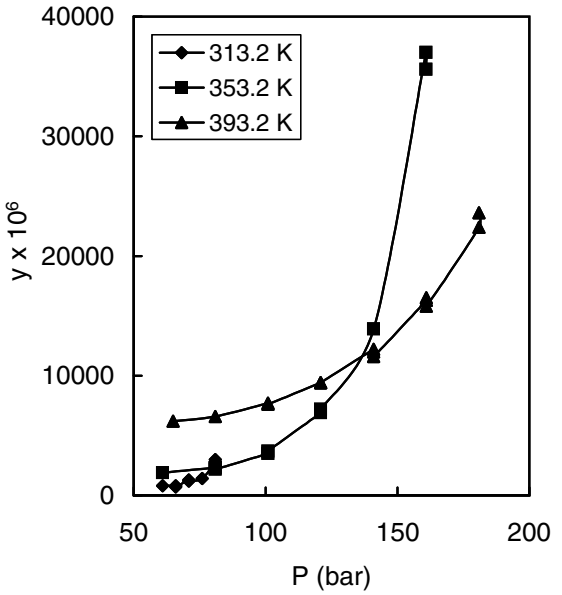
Synonyms: (±)-2-Hydroxy-2-phenylacetophenone; (±)-2-Hydroxy-1,2-diphenylethanone

Source: Cheng, K.-W.; Tang, M.; Chen, Y.-P. *Fluid Phase Equil.* (2002), 201(1), 79-96.



Benzonitrile (C_7H_5N; MW=103.12) **[B-28]**

T (K)	P (bar)	y x 10^6
313.2	60.9	800
	65.9	800
	65.9	700
	70.9	1300
	70.9	1200
	75.9	1400
	80.9	2800
	80.9	3000
353.2	60.9	1900
	80.9	2300
	80.9	2200
	100.9	3500
	100.9	3700
	120.9	6900
	120.9	7200
	140.9	13900
	160.8	37000
	160.8	35600
393.2	64.9	6200
	80.9	6600
	100.9	7700
	100.9	7600
	120.9	9400
	120.9	9400
	140.9	12200
	140.9	12000
	140.9	11600
	160.9	16300
	160.9	16500
	160.9	15800
	180.9	22400
	180.9	23600

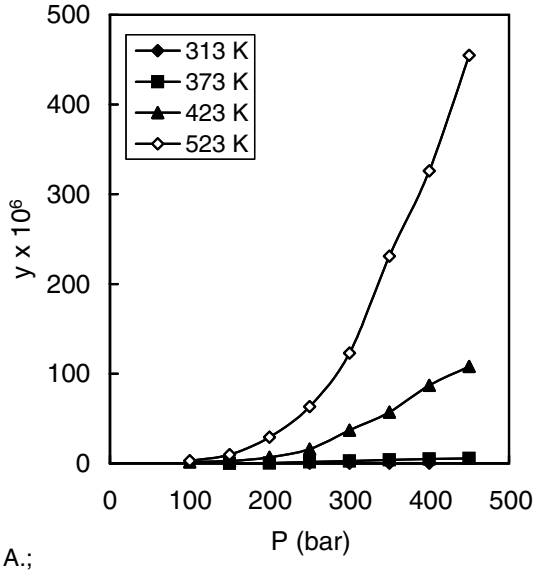


Synonyms: Benzenecarbonitrile; Cyanobenzene
Source: Walther, D.; Maurer, G.
J. Chem. Eng. Data (1993), 38, 247-249.

Benzo[*ghi*]perylene ($C_{22}H_{12}$; MW=276.33) **[B-29]**

T (K)	P (bar)	y x 10^6
313	250	0.18
	300	0.27
	350	0.31
	400	0.33
373	150	0.15
	200	0.43
	250	1.60
	300	2.70
	350	4.00
	400	4.80
	450	5.40

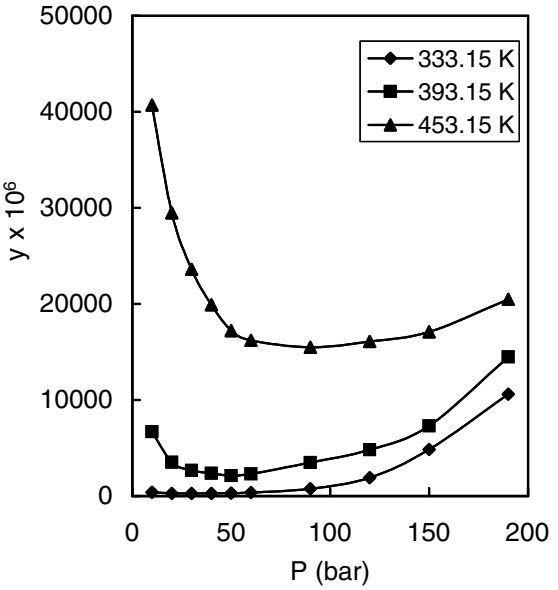
423	100	1.70
	150	2.50
	200	6.80
	250	16.00
	300	37.00
	350	57.00
	400	87.00
	450	108.00
523	100	2.90
	150	9.70
	200	29.30
	250	63.30
	300	123.00
	350	231.00
	400	326.00
	450	455.00



Synonym: 1,12-Benzoperylene
Source: Miller,D. J.;Hawthorne,S. B.;Clifford, A. A.; Zhu, S. *J. Chem. Eng. Data* (1996), 41(4), 779-786.

Benzyl alcohol (C_7H_8O; MW=108.14) **[B-30]**

T (K)	P (bar)	y x 10^6
333.15	10	409
	20	286
	30	268
	40	277
	50	291
	60	349
	90	763
	120	1920
	150	4850
	190	10600
393.15	10	6710
	20	3510
	30	2680
	40	2360
	50	2110
	60	2290
	90	3470
	120	4830
	150	7290
	190	14500
453.15	10	40700
	20	29500
	30	23600
	40	19900
	50	17200

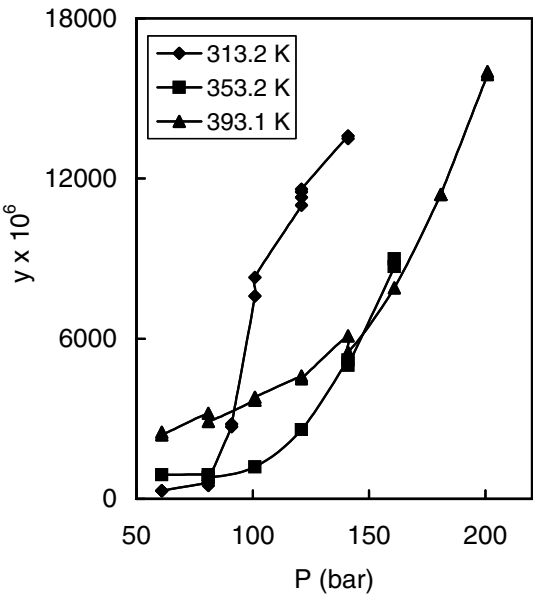


60	16200
90	15500
120	16100
150	17100
190	20500

Synonym: Benzenemethanol
Source: C hen,J.-T.;Lee,M.-J. *Fluid Phase Equil.*(1997), 130(1-2), 231-241.

Benzyl alcohol (C_7H_8O; MW=108.14) **[B-31]**

T (K)	P (bar)	y x 10^6
313.2	60.9	300
	60.9	300
	80.9	600
	80.9	500
	80.9	700
	80.9	600
	80.9	700
	90.9	2700
	90.9	2800
	100.9	7600
	100.9	8300
	120.9	11000
	120.9	11300
	120.9	11500
	120.9	11600
	140.9	13600
	140.9	13500
353.2	60.9	900
	80.9	900
	80.9	800
	100.9	1200
	120.9	2600
	140.9	5200
	140.9	5000
	160.8	8700
	160.8	9000
393.1	60.9	2500
	60.9	2400
	80.9	3200
	80.9	2900
	100.9	3700
	100.9	3800
	120.9	4600
	120.9	4500
	140.9	6100

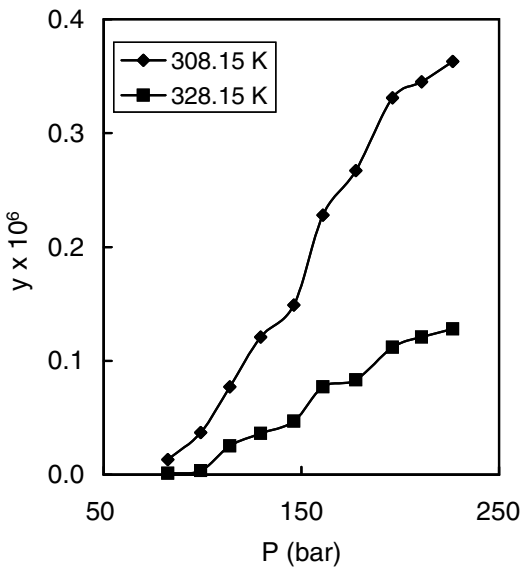


140.9	5500
160.8	7900
180.8	11400
180.8	11400
200.8	15900
200.8	16000

Synonym: Benzenemethanol
Source: Walther, D.; Maurer, G.
J. Chem. Eng. Data (1993), 38, 247-249.

Betamethasone ($C_{22}H_{29}FO_5$; MW=392.46) **[B-32]**

T (K)	P (bar)	y x 10^6
308.15	82.4	0.013
	99.0	0.037
	113.8	0.077
	129.4	0.121
	146.1	0.149
	160.8	0.228
	177.5	0.267
	196.1	0.331
	210.8	0.345
	226.5	0.363
328.15	82.4	0.001
	99.0	0.004
	113.8	0.025
	129.4	0.036
	146.1	0.047
	160.8	0.077
	177.5	0.083
	196.1	0.112
	210.8	0.121
	226.5	0.128



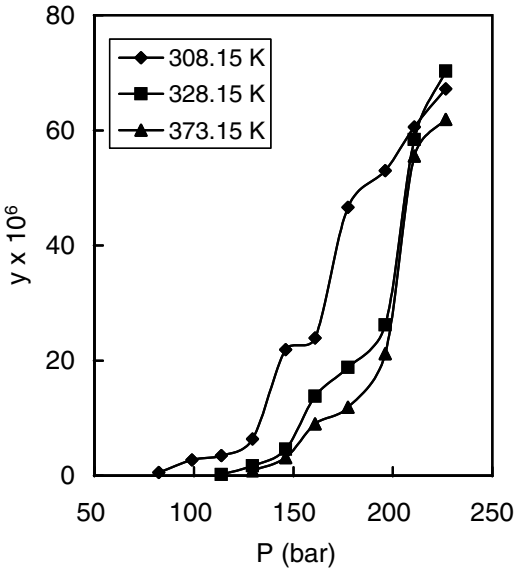
Synonym: 9α-Fluoro-16β-methylprednisolone
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Betamethasone 17, 21-dipropionate ($C_{28}H_{37}FO_7$; MW=504.59) **[B-33]**

T (K)	P (bar)	y x 10^6
308.15	82.4	0.56
	99.0	2.72
	113.8	3.48
	129.4	6.39
	146.1	21.90
	160.8	23.90
	177.5	46.60
	196.1	53.00
	210.8	60.60
	226.5	67.20

328.15	113.8	0.21
	129.4	1.70
	146.1	4.62
	160.8	13.80
	177.5	18.80
	196.1	26.20
	210.8	58.40
	226.5	70.30
373.15	129.4	0.85
	146.1	3.11
	160.8	8.99
	177.5	11.90
	196.1	21.20
	210.8	55.50
	226.5	61.90

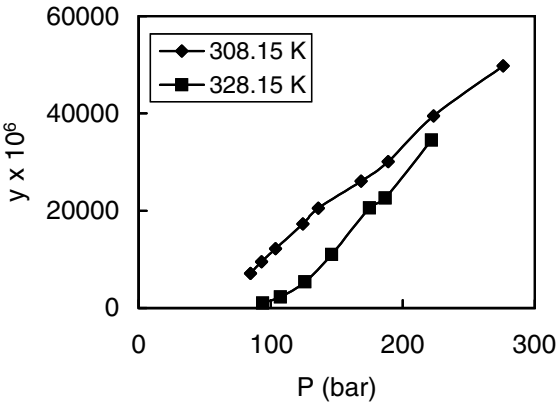
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.



Bibenzyl ($C_{14}H_{14}$; MW=182.26) **[B-34]**

T (K)	P (bar)	y x 10^6
308.15	84.7	7100
	93.0	9500
	103.7	12200
	124.3	17300
	136.1	20500
	168.5	26100
	189.0	30100
	223.3	39500
	276.0	49800
328.15	93.9	1000
	107.3	2300
	125.8	5400
	146.1	11000
	174.9	20600
	186.8	22600
	221.7	34500

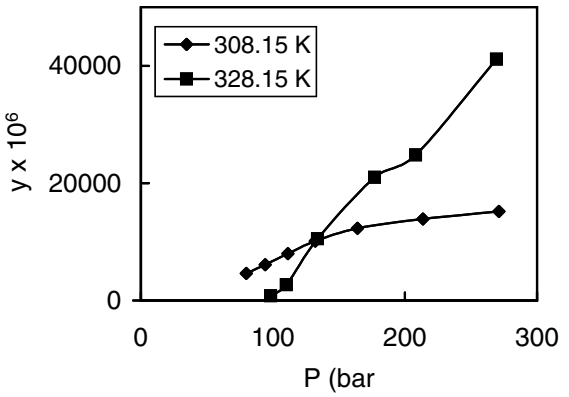
Synonym: 1,2-Diphenylethane
Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.



Biphenyl ($C_{12}H_{10}$; MW=154.21) **[B-35]**

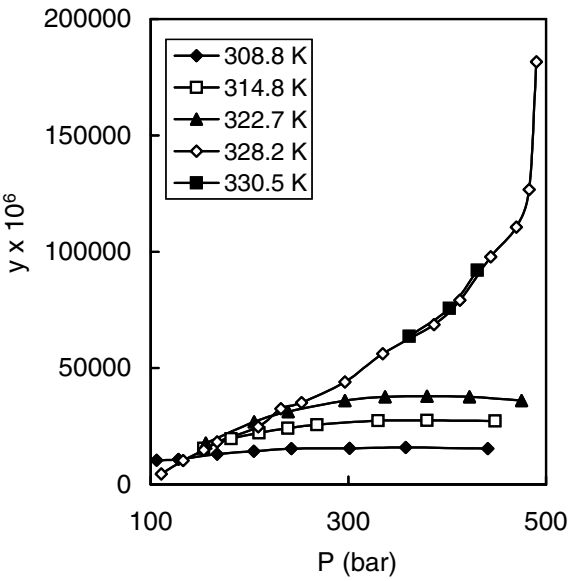
T (K)	P (bar)	y x 10^6
308.15	79.9	4600
	94.1	6100
	111.4	8000
	132.0	10100
	164.0	12300
	213.6	13900
	271.2	15200
328.15	98.3	800
	110.3	2700
	133.7	10500
	176.9	21000
	208.0	24800
	269.4	41100

Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.



Biphenyl ($C_{12}H_{10}$; MW=154.21) **[B-36]**

T (K)	P (bar)	y x 10^6
308.8	106.0	10430
	127.9	10770
	167.3	12960
	204.4	14310
	242.3	15360
	301.2	15460
	358.1	15860
	441.2	15410
314.8	153.5	15560
	181.3	19590
	209.5	22100
	238.8	24150
	268.1	25610
	330.1	27380
	379.5	27510
	448.4	27220
322.7	155.6	17820
	204.6	26890
	239.1	31240
	296.6	36050
	337.0	37640
	379.5	37950
	422.5	37650
	475.2	36050
328.2	110.6	4474
	132.6	10310
	153.7	14810
	167.3	18290

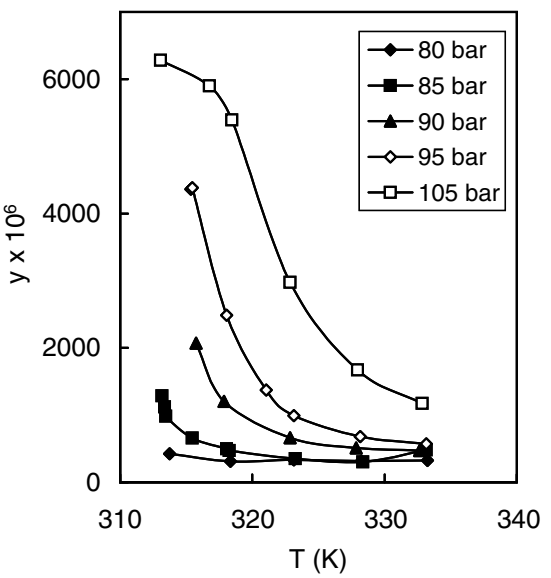


	208.6	24780
	231.6	32510
	252.6	35160
	296.6	43980
	334.7	56150
	386.7	68620
	412.9	79180
	443.9	97750
	470.0	110540
	482.8	126690
	490.4	181650
330.5	361.5	63650
	402.2	75630
	430.4	92080

Synonym: 1,1'-Biphenyl
Source: MCHugh, M.; Paulaitis, M. E. *J. Chem. Eng. Data* (1980), 25(4), 326-329.

Biphenyl ($C_{12}H_{10}$; MW=154.21) **[B-37]**

P (bar)	T (K)	y x 10^6
80.0	313.75	426
	318.35	312
	323.15	333
	328.25	316
	333.25	326
85.0	313.16	1285
	313.36	1124
	313.45	984
	315.45	657
	318.05	496
	318.25	470
	323.25	351
	328.35	303
	333.15	482
90.0	315.75	2069
	317.85	1205
	322.85	664
	327.85	511
	332.65	471
95.0	315.35	4364
	315.45	4385
	318.05	2485
	321.05	1372
	323.15	992
	328.15	679
	333.15	570

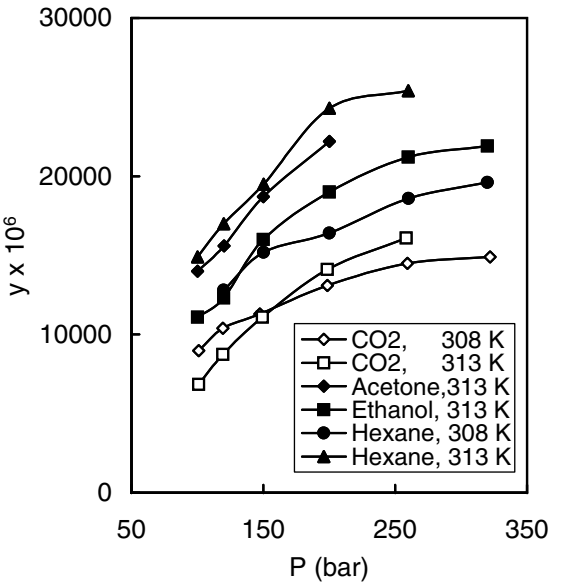


105.0	313.05	6282
	316.75	5901
	318.45	5391
	322.85	2978
	327.95	1670
	332.85	1174

Source: Zhao, S.; Wang, R.; Yang, G.
J. Supercrit. Fluids (1995), 8(1), 15-19.

Biphenyl ($C_{12}H_{10}$; MW=154.21) **[B-38]**

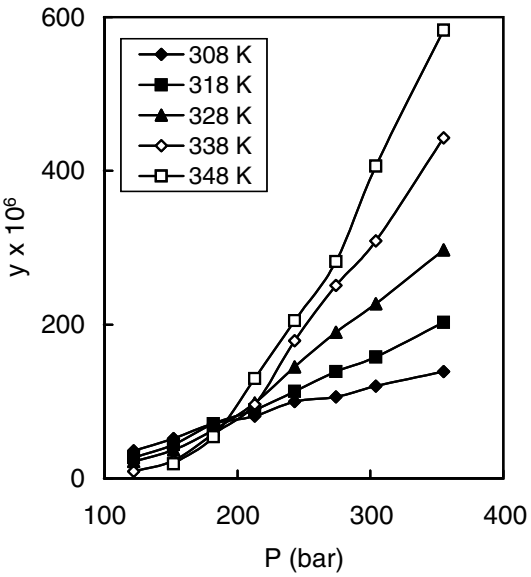
T(K)	P[1] (bar)	Cosolvent[2] (mol%)	y[1] x 10^6
308	101	0	8970
	119	0	10400
	147	0	11300
	198	0	13100
	259	0	14500
	322	0	14900
313	101	0	6840
	119	0	8730
	149	0	11100
	198	0	14100
	258	0	16100
313		*Acetone*	
	100	3.7	14000
	120	3.7	15600
	150	3.7	18700
	200	3.7	22200
		Ethanol	
	100	3.7	11100
	120	3.7	12300
	150	3.7	16000
	200	3.7	19000
	260	3.7	21200
	320	3.7	21900
		Hexane	
308	120	3.7	12800
	150	3.7	15200
	200	3.7	16400
	260	3.7	18600
	320	3.7	19600
313	100	3.7	14900
	120	3.7	17000
	150	3.7	19500
	200	3.7	24300
	260	3.7	25400



1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2 on a solute-free basis.
Synonym: 1,1'-Biphenyl
Source: Zhang, J.; Zhu, M.; Yu, E.; Zhang, Z.
Chinese J. Chem. Eng. (1993), 1(4), 239-246.

Bisacodyl ($C_{22}H_{19}NO_4$; MW=361.39) **[B-39]**

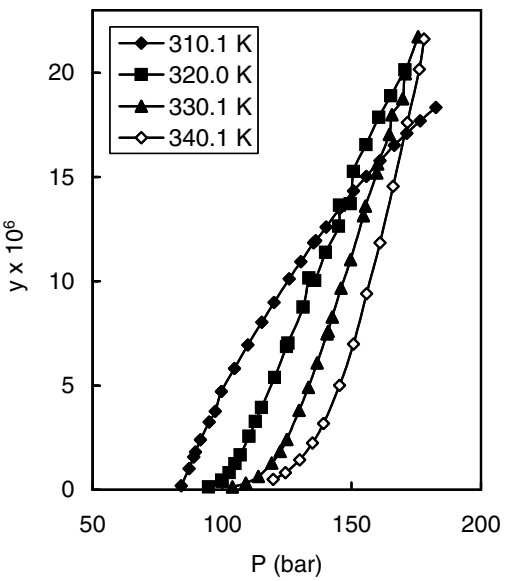
T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.23	36
	152	0.37	52
	182	0.50	71
	213	0.59	81
	243	0.74	100
	274	0.80	106
	304	0.92	120
	355	1.09	139
318	122	0.17	27
	152	0.27	44
	182	0.46	71
	213	0.60	89
	243	0.79	113
	274	1.00	139
	304	1.16	158
	355	1.53	203
328	122	0.09	22
	152	0.19	37
	182	0.38	63
	213	0.62	98
	243	0.96	145
	274	1.30	190
	304	1.59	227
	355	2.15	297
338	122	0.03	9
	152	0.11	23
	182	0.31	58
	213	0.56	96
	243	1.11	179
	274	1.62	251
	304	2.06	309
	355	3.09	443
348	152	0.07	19
	182	0.26	54
	213	0.70	130
	243	1.18	205
	274	1.72	282
	304	2.58	406
	355	3.88	583



Synonym: 4,4'-(2-Pyridylmethylene)bisphenol diacetate
Source: Asghari-Khiavi, M.; Yamini, Y. *J. Chem. Eng. Data* (2003), 48(1), 61-65.

1,4-Bis(butylamino)anthraquinone ($C_{22}H_{26}N_2O_2$; MW=350.46) **[B-40]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
310.1	84.2	2.2	0.19
	87.2	13.4	1.01
	89.0	21.9	1.58
	89.7	25.5	1.82
	91.6	34.7	2.40
	95.0	48.8	3.25
	97.3	57.9	3.77
	99.7	73.7	4.72
	104.8	93.8	5.83
	109.9	114.5	6.95
	115.3	135.2	8.03
	120.1	153.6	8.99
	125.9	175.8	10.12
	130.4	192.2	10.94
	135.4	210.5	11.84
	136.1	212.7	11.95
	140.2	226.2	12.60
	145.4	244.4	13.48
	150.7	262.2	14.33
	155.7	277.4	15.04
	161.0	293.6	15.79
	166.5	309.6	16.52
	171.3	322.6	17.10
	176.5	336.1	17.70
	182.6	350.8	18.34
320.0	94.8	1.2	0.14
	99.8	4.7	0.46
	100.0	4.2	0.41
	102.7	9.2	0.82
	105.0	14.9	1.25
	107.0	20.7	1.67
	110.4	33.7	2.57
	112.9	44.3	3.28
	115.2	54.7	3.95
	120.3	78.1	5.39
	124.9	102.7	6.87
	125.4	105.5	7.04
	131.3	135.7	8.77
	133.5	158.9	10.17
	135.8	158.3	10.03
	140.0	182.7	11.39
	145.0	206.3	12.64
	145.3	222.9	13.64
	149.5	227.0	13.72
	150.8	253.5	15.26

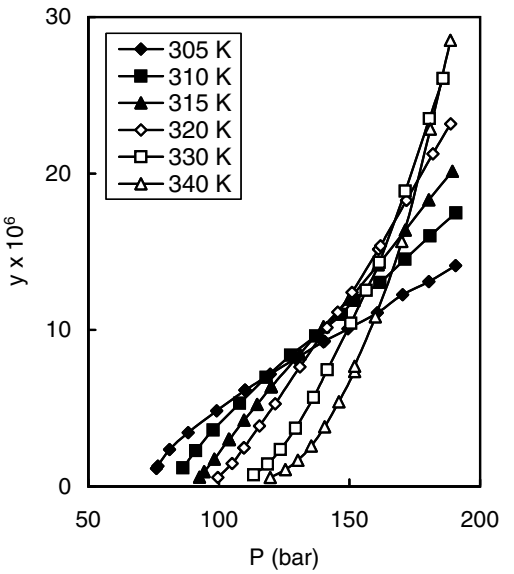


	155.6	278.4	16.55
	160.5	304.3	17.87
	165.1	325.2	18.90
	170.7	350.5	20.13
330.1	104.0	1.1	0.14
	109.1	2.8	0.32
	114.0	6.3	0.64
	119.1	13.8	1.28
	122.4	20.9	1.84
	125.0	28.5	2.41
	129.7	47.6	3.81
	133.3	63.7	4.92
	136.7	81.1	6.08
	140.5	102.6	7.48
	141.0	104.8	7.61
	142.5	115.2	8.28
	145.9	137.3	9.67
	149.6	159.9	11.03
	154.6	195.1	13.14
	155.4	202.8	13.61
	159.8	230.6	15.20
	160.1	237.5	15.63
	164.6	263.2	17.04
	165.6	278.8	17.98
	169.7	294.7	18.75
	170.8	314.6	19.95
	175.7	347.7	21.73
340.1	119.7	4.2	0.50
	124.4	7.4	0.82
	129.9	14.1	1.43
	134.9	23.6	2.25
	139.2	35.2	3.18
	145.3	59.0	5.01
	150.7	86.3	7.00
	155.8	120.5	9.40
	161.0	156.9	11.84
	166.0	198.3	14.55
	171.6	246.8	17.61
	176.2	288.5	20.17
	178.0	311.4	21.61

1: Calculated from M.
Synonym: C. I. Solvent Blue 35
Source: Kautz, C. B. Sc. D. Thesis, University of Bochum, Bochum, Germany, 1996.

1,4-Bis(butylamino)anthraquinone ($C_{22}H_{26}N_2O_2$; MW=350.46) **[B-41]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
305.0	76.1	15.7	1.15
	76.6	18.3	1.31
	81.1	35.9	2.35
	88.2	55.6	3.43
	99.1	82.6	4.84
	110.0	108.8	6.16
	110.1	108.8	6.16
	119.6	129.7	7.18
	129.4	150.7	8.18
	140.0	173.3	9.25
	140.4	174.2	9.29
	149.4	191.7	10.09
	160.7	214.1	11.10
	170.4	238.9	12.25
	180.4	257.9	13.09
	190.6	280.9	14.12
310.0	86.2	15.1	1.19
	91.1	32.9	2.29
	97.8	55.5	3.60
	108.0	87.1	5.32
	118.1	118.4	6.97
	127.5	146.3	8.38
	137.0	171.6	9.62
	147.0	199.9	10.99
	151.7	217.9	11.89
	161.7	242.7	13.04
	171.3	274.0	14.53
	180.8	305.6	16.01
	190.8	337.6	17.49
315.0	92.6	6.4	0.59
	94.4	11.0	0.94
	98.2	22.8	1.75
	103.8	42.9	3.02
	104.0	42.6	3.00
	109.6	63.4	4.24
	114.6	81.0	5.24
	120.0	101.5	6.38
	120.1	101.6	6.39
	131.0	140.6	8.47
	140.0	174.0	10.21
	150.0	209.1	11.97
	161.0	253.1	14.17
	171.4	297.8	16.38

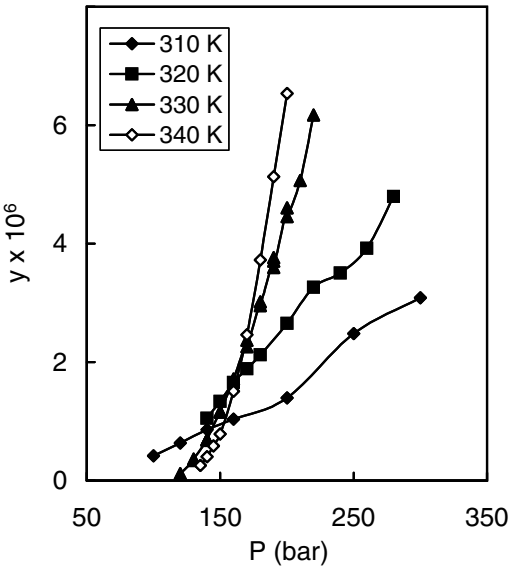


	180.4	337.7	18.33
	189.4	375.6	20.14
320.0	99.6	5.9	0.58
	105.0	17.4	1.47
	109.5	31.9	2.47
	109.6	32.0	2.47
	115.5	53.7	3.86
	121.5	77.2	5.28
	131.0	118.0	7.64
	141.4	163.6	10.15
	145.5	182.1	11.14
	151.0	206.2	12.41
	161.1	258.4	15.15
	161.9	262.7	15.38
	171.8	319.1	18.29
	181.9	377.7	21.25
	188.7	416.4	23.17
330.0	113.3	7.1	0.74
	118.6	15.4	1.44
	123.5	27.2	2.35
	129.3	46.4	3.73
	136.2	75.5	5.68
	141.5	102.9	7.45
	150.5	151.9	10.43
	156.4	187.6	12.54
	161.4	218.7	14.32
	171.4	298.2	18.88
	180.6	381.2	23.51
	185.9	428.6	26.08
340.0	119.7	4.9	0.58
	125.5	9.9	1.07
	130.2	16.6	1.68
	135.4	27.4	2.59
	140.5	42.7	3.81
	146.0	64.1	5.41
	152.0	91.5	7.34
	152.0	95.7	7.68
	159.9	142.8	10.85
	170.0	217.9	15.67
	180.9	332.8	22.83
	188.6	427.1	28.52

1: Calculated from M.
Synonym: C. I. Solvent Blue 35
Source: Tuma, D.; Wagner, B.; Schneider, G. M. *Fluid Phase Equil.* (2001), 182, 133-143. (*Another source*: Wagner, B. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1998.)

1,4-Bis(dodecylamino)anthraquinone ($C_{38}H_{58}N_2O_2$; MW=574.88) **[B-42]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
310.0	100	6.5	0.42
	120	10.9	0.63
	140	15.4	0.86
	160	19.3	1.04
	200	27.2	1.40
	250	50.5	2.48
	300	64.7	3.08
320.0	140	16.9	1.05
	150	22.1	1.33
	160	28.2	1.66
	170	32.8	1.89
	180	37.6	2.12
	200	48.5	2.65
	220	61.2	3.26
	240	67.0	3.50
	260	76.5	3.92
	280	95.0	4.80
330.0	120	1.3	0.12
	130	4.2	0.34
	130	4.5	0.36
	140	9.2	0.68
	140	9.4	0.69
	140	9.4	0.69
	150	16.9	1.17
	150	16.7	1.15
	160	26.0	1.71
	170	37.2	2.37
	170	35.5	2.26
	180	48.8	3.02
	180	47.8	2.95
	190	62.4	3.76
	190	61.4	3.70
	190	59.6	3.59
	200	78.0	4.60
	200	75.5	4.45
	210	87.4	5.07
	220	108.2	6.17
340.0	135	2.7	0.25
	140	4.5	0.40
	145	6.9	0.59
	150	9.6	0.79
	160	19.9	1.51



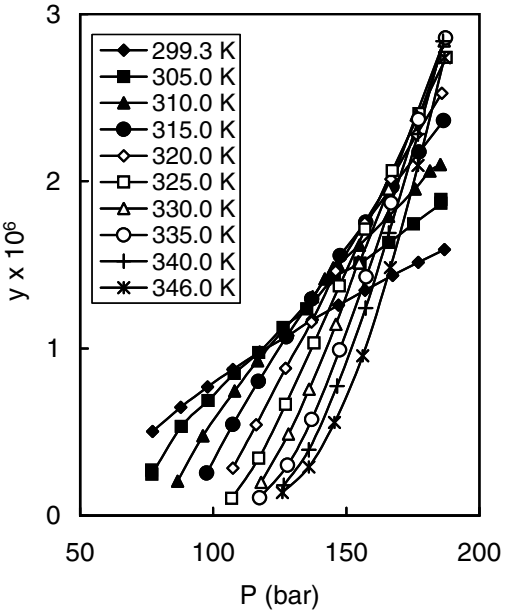
170	34.2	2.46
180	54.1	3.72
190	77.2	5.13
200	101.3	6.53

1: Calculated from M.
Source: Swidersky, P.; Tuma, D.; Schneider, G. M. *J. Supercrit. Fluids* (1996), 9, 12-18. (*Another source*: Swidersky, P. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1994.)

1,4-Bis(ethylamino)anthraquinone ($C_{18}H_{18}N_2O_2$; MW=294.35) **[B-43]**

T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
299.3	77.2	8.6	0.50
	87.8	11.6	0.65
	97.9	14.1	0.77
	107.4	16.3	0.87
	117.5	18.6	0.98
	128.1	20.8	1.08
	137.2	22.9	1.17
	147.1	24.8	1.26
	157.0	26.9	1.35
	167.4	28.9	1.44
	177.0	30.8	1.51
	186.9	32.6	1.59
305.0	76.9	3.8	0.27
	77.0	3.5	0.25
	88.1	8.6	0.53
	98.1	11.7	0.69
	107.9	14.9	0.85
	117.1	17.5	0.98
	126.3	20.6	1.13
	135.2	23.0	1.24
	145.5	26.9	1.42
	155.2	28.9	1.51
	166.0	31.7	1.63
	175.3	34.2	1.74
	185.6	37.0	1.87
	185.6	37.4	1.89
310.0	86.6	2.7	0.20
	96.1	7.3	0.48
	108.0	12.2	0.75
	116.7	15.7	0.93

	127.0	19.5	1.12
	137.4	23.4	1.31
	142.0	25.5	1.42
	145.1	26.9	1.48
	146.9	27.3	1.50
	155.0	29.8	1.62
	165.9	33.5	1.79
	175.8	37.1	1.95
	181.4	39.4	2.06
	185.4	40.3	2.10
315.0	97.6	3.3	0.25
	107.4	8.0	0.54
	117.0	12.6	0.80
	127.5	17.5	1.07
	137.0	21.9	1.30
	147.7	27.0	1.55
	157.4	31.1	1.76
	167.2	35.5	1.97
	177.4	39.9	2.17
	186.6	43.9	2.36
320.0	107.4	3.6	0.28
	116.1	7.6	0.54
	127.2	13.3	0.88
	136.9	18.4	1.16
	145.9	23.8	1.46
	146.0	24.0	1.46
	156.9	29.6	1.75
	166.8	34.8	2.01
	176.4	40.1	2.28
	185.9	45.2	2.53
325.0	107.0	1.0	0.10
	117.1	4.2	0.34
	127.2	9.1	0.66
	137.9	15.2	1.03
	147.4	21.2	1.37
	157.0	27.4	1.71
	167.3	34.0	2.06
	177.4	40.6	2.41
	187.5	47.2	2.74
330.0	118.0	2.1	0.20
	128.3	6.0	0.49
	136.0	10.0	0.76



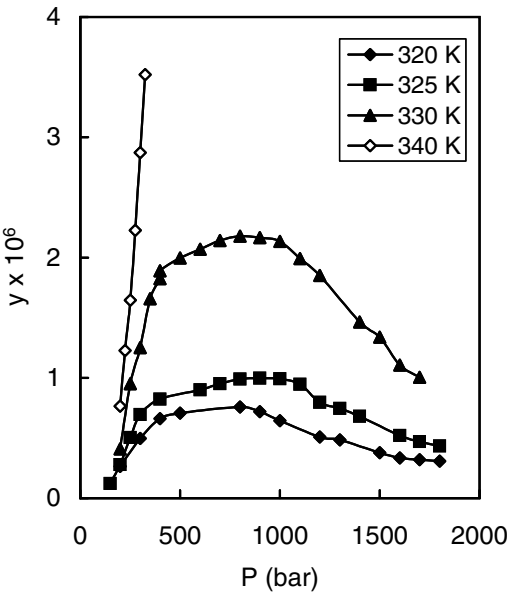
	146.1	16.3	1.14
	154.5	22.5	1.52
	154.8	22.5	1.51
	165.9	30.3	1.95
	176.3	38.4	2.40
	186.8	46.8	2.84
335.0	117.5	1.0	0.11
	127.9	3.3	0.30
	137.0	6.9	0.57
	147.5	13.0	0.99
	157.5	20.0	1.43
	166.9	27.4	1.87
	177.1	36.1	2.37
	187.3	44.9	2.86
340.0	126.5	1.7	0.18
	135.9	4.2	0.39
	146.5	9.2	0.78
	157.3	16.1	1.24
	166.0	23.1	1.69
	176.9	32.7	2.28
	186.3	42.2	2.84
346.0	126.0	1.1	0.14
	135.9	2.7	0.29
	145.6	5.9	0.56
	156.2	11.1	0.96
	166.5	18.6	1.48
	176.9	27.9	2.10
	186.9	38.1	2.74

1: Calculated from M.
Synonym: C. I. Solvent Blue 105
Source: Tuma, D.; Wagner, B.; Schneider, G. M. *Fluid Phase Equil.* (2001), 182, 133-143. (*Another source*: Wagner, B. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1998.)

1,4-Bis(hexadecylamino)anthraquinone ($C_{46}H_{74}N_2O_2$; MW=687.09) **[B-44]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
320.0	200	4.8	0.26
	300	10.0	0.50
	400	14.1	0.66
	500	15.6	0.71
	800	18.1	0.76
	900	17.5	0.72
	1000	15.9	0.64

	1200	12.9	0.51
	1300	12.5	0.48
	1500	9.9	0.38
	1600	8.9	0.33
	1700	8.6	0.32
	1800	8.4	0.31
325.0	150	1.9	0.12
	200	4.9	0.28
	250	9.5	0.50
	300	13.6	0.69
	400	17.2	0.82
	600	20.3	0.90
	700	22.0	0.95
	800	23.4	0.99
	900	24.0	1.00
	1000	24.3	0.99
	1100	23.6	0.95
	1200	20.1	0.80
	1300	19.0	0.74
	1400	17.6	0.68
	1600	13.7	0.52
	1700	12.5	0.47
	1800	11.7	0.43
330.0	200	6.9	0.41
	250	17.4	0.95
	300	24.0	1.25
	350	33.0	1.66
	400	37.4	1.82
	400	38.7	1.89
	500	42.8	2.00
	600	46.0	2.07
	700	48.9	2.14
	800	50.9	2.18
	900	51.7	2.17
	1000	51.9	2.13
	1100	49.2	1.99
	1200	46.4	1.85
	1400	37.6	1.46
	1500	34.8	1.34
	1600	29.0	1.11
	1700	26.6	1.00

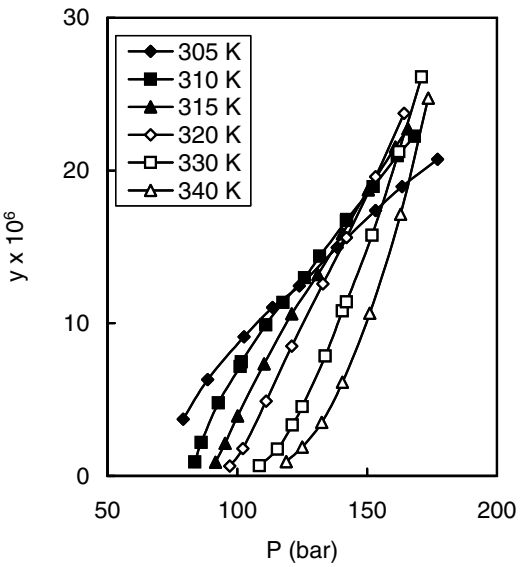


340.0	200	11.8	0.76
	225	20.1	1.23
	250	28.2	1.65
	275	39.5	2.23
	300	52.4	2.87
	325	65.8	3.52

1: Calculated from M.
Source: Swidersky, P.; Tuma, D.; Schneider, G. M. *J. Supercrit. Fluids* (1996), 9, 12-18. (*Another source*: Swidersky, P. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1994.)

1,4-Bis(isopropylamino)anthraquinone ($C_{20}H_{22}N_2O_2$; MW=322.41) **[B-45]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
305.0	79.1	55.0	3.71
	88.6	102.6	6.32
	102.6	157.5	9.11
	113.6	196.8	11.04
	123.9	227.0	12.45
	138.4	279.8	14.96
	153.3	332.1	17.39
	163.4	366.5	18.95
	177.1	407.3	20.75
310.0	83.6	9.9	0.92
	86.1	27.9	2.20
	92.7	70.3	4.79
	101.1	113.1	7.17
	101.6	118.2	7.48
	111.0	163.7	9.89
	117.6	192.6	11.36
	125.9	225.7	12.99
	131.7	253.8	14.40
	142.0	301.0	16.71
	142.2	302.5	16.79
	152.4	347.5	18.94
	161.7	390.2	20.96
	168.3	417.7	22.23
315.0	91.6	9.3	0.90
	95.3	25.8	2.14
	100.1	52.8	3.92
	110.3	110.2	7.33
	121.0	169.5	10.61
	131.0	219.1	13.20
	140.5	270.8	15.86
	150.5	327.5	18.73
	160.9	384.5	21.54
	165.7	409.4	22.74



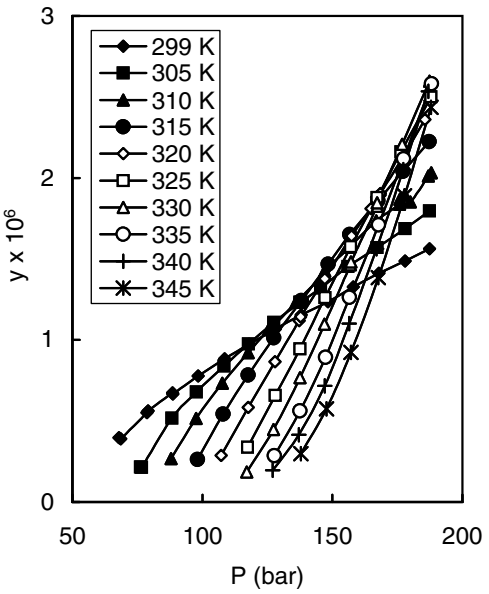
320.0	97.1	6.1	0.65
	102.1	19.8	1.79
	111.1	64.7	4.89
	121.0	123.8	8.50
	133.0	196.2	12.58
	142.0	252.1	15.60
	153.3	327.8	19.60
	164.2	407.8	23.75
330.0	108.5	5.7	0.66
	115.5	17.6	1.75
	121.2	37.3	3.34
	125.0	53.6	4.54
	133.9	102.3	7.86
	140.5	148.2	10.80
	142.0	158.0	11.40
	151.9	231.1	15.77
	162.2	325.1	21.23
	171.0	412.2	26.13
340.0	118.8	7.7	0.93
	125.0	17.2	1.88
	132.5	35.7	3.51
	140.5	68.8	6.14
	151.0	131.8	10.65
	162.9	229.6	17.14
	173.5	349.8	24.74

1: Calculated from M.
Synonym: C. I. Disperse Blue 134
Source: Tuma, D.; Wagner, B.; Schneider, G. M.
Phys. Chem. Chem. Phys. (2002), 4, 968-973.
(Another source: Tuma, D.; Wagner, B.; Schneider, G. M.
Fluid Phase Equil. (2001), 182, 133-143.)

1,4-Bis(methylamino)anthraquinone ($C_{16}H_{14}N_2O_2$; MW=266.30) **[B-46]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
299.0	67.9	6.5	0.40
	68.6	6.4	0.39
	78.7	9.6	0.55
	79.1	9.8	0.56
	88.5	12.1	0.67
	88.6	12.0	0.67
	98.4	14.3	0.78
	108.5	16.6	0.88
	118.0	18.6	0.97
	128.0	20.6	1.07

	138.0	22.6	1.15
	148.3	24.5	1.24
	158.0	26.5	1.33
	167.9	28.5	1.41
	178.0	30.3	1.49
	187.4	32.1	1.56
305.0	76.2	3.0	0.22
	76.6	3.0	0.21
	88.3	8.4	0.52
	97.7	11.5	0.68
	108.3	14.8	0.84
	117.7	17.6	0.98
	127.5	20.3	1.11
	137.5	23.0	1.23
	137.6	23.0	1.23
	145.5	24.9	1.32
	156.0	27.9	1.45
	167.2	30.5	1.57
	177.9	33.2	1.69
	187.3	35.6	1.80
310.0	88.0	3.6	0.27
	97.6	7.9	0.52
	107.6	12.0	0.73
	117.6	15.6	0.92
	125.5	18.5	1.06
	126.6	18.7	1.07
	136.0	21.9	1.23
	146.5	25.4	1.40
	147.0	25.9	1.43
	156.5	29.0	1.57
	166.9	32.5	1.73
	175.8	34.9	1.84
	175.9	35.5	1.87
	177.8	36.0	1.89
	180.0	35.3	1.85
	186.9	38.7	2.01
	188.0	39.1	2.03
315.0	98.1	3.4	0.26
	108.0	8.0	0.54
	117.6	12.3	0.78
	127.5	16.6	1.01
	138.1	21.1	1.24
	148.4	25.5	1.47
	156.7	29.3	1.65
	167.5	33.6	1.86
	177.2	37.4	2.04
	187.2	41.4	2.22



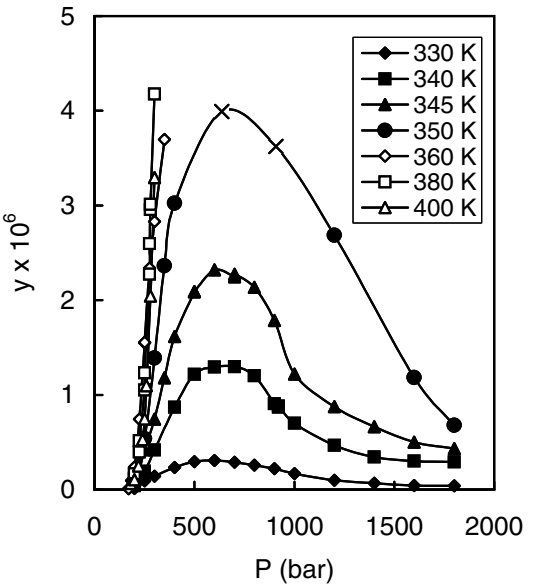
320.0	107.2	3.6	0.29
	117.6	8.3	0.58
	127.9	13.2	0.87
	137.2	17.8	1.12
	137.8	18.2	1.14
	147.0	22.6	1.38
	157.4	27.8	1.64
	164.9	31.2	1.81
	167.0	32.5	1.88
	167.0	32.5	1.88
	168.3	32.8	1.89
	168.4	33.0	1.90
	177.1	37.5	2.13
	185.6	42.2	2.36
325.0	117.4	4.2	0.34
	128.0	9.1	0.66
	137.5	13.9	0.95
	147.2	19.5	1.26
	157.0	25.2	1.57
	167.2	31.0	1.88
	176.4	36.4	2.16
	187.9	43.1	2.50
330.0	117.0	1.9	0.18
	127.4	5.4	0.45
	137.5	10.3	0.77
	146.9	15.7	1.10
	156.9	21.9	1.46
	157.1	22.2	1.48
	167.2	28.5	1.83
	167.2	28.8	1.85
	176.8	35.4	2.21
	187.4	42.8	2.60
335.0	127.7	3.1	0.29
	137.5	6.8	0.56
	147.4	11.8	0.89
	156.6	17.6	1.26
	167.8	25.1	1.71
	177.4	32.3	2.12
	188.1	40.6	2.58
340.0	127.0	1.9	0.20
	137.1	4.5	0.41
	147.0	8.6	0.72
	156.5	14.2	1.10
	167.0	21.4	1.56
	177.3	29.5	2.05
	186.9	37.7	2.53

345.0	137.9	3.0	0.30
	147.7	6.3	0.58
	157.1	11.0	0.92
	167.7	17.7	1.38
	177.7	25.6	1.89
	187.9	34.5	2.44

1: Calculated from M.
Synonym: C. I. Disperse Blue 14
Source: Kautz, C. B.; Wagner, B.; Schneider, G. M.
J. Supercrit. Fluids (1998), 13, 43-47.

1,4-Bis(octadecylamino)anthraquinone ($C_{50}H_{82}N_2O_2$; MW=743.21) **[B-47]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1,2)}$ x 10^6
330.0	200	0.2	0.01
	250	1.7	0.09
	300	2.7	0.14
	400	4.8	0.23
	500	6.3	0.29
	600	6.8	0.31
	700	6.6	0.29
	800	6.0	0.26
	900	5.3	0.22
	1000	4.1	0.17
	1200	2.5	0.10
	1400	1.7	0.07
	1600	1.1	0.04
	1800	1.1	0.04
340.0	200	0.6	0.04
	250	3.3	0.19
	300	7.6	0.42
	400	17.2	0.87
	500	25.3	1.22
	600	28.0	1.30
	700	28.9	1.30
	800	27.5	1.20
	900	21.2	0.91
	920	20.4	0.87
	920	20.7	0.88
	1000	16.7	0.70
	1200	11.5	0.47
	1400	8.7	0.34
	1600	7.8	0.30
	1800	7.7	0.29



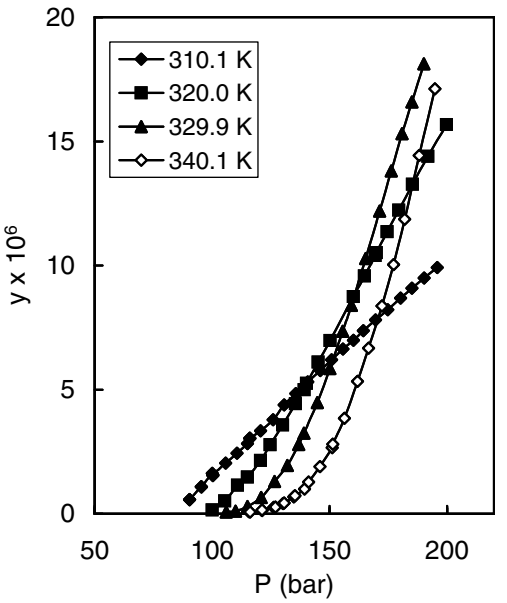
345.0	200	1.5	0.10
	225	3.4	0.22
	250	7.0	0.42
	300	13.2	0.74
	350	22.0	1.18
	400	31.3	1.62
	500	42.8	2.09
	500	42.8	2.09
	600	49.5	2.32
	700	49.5	2.25
	700	50.1	2.27
	800	48.3	2.14
	900	41.3	1.78
	1000	28.8	1.22
	1200	21.4	0.88
	1400	16.7	0.67
	1600	12.9	0.50
	1800	11.4	0.43
350.0	200	0.9	0.06
	250	8.6	0.54
	300	24.0	1.39
	350	43.1	2.36
	400	57.4	3.02
	637	85.0	3.99
	907	83.1	3.62
	1200	65.0	2.69
	1600	30.2	1.18
	1800	17.7	0.68
360.0	170	0.1	0.01
	185	1.1	0.09
	200	3.0	0.24
	225	10.3	0.74
	250	23.0	1.55
	250	23.1	1.55
	275	36.6	2.34
	300	46.2	2.83
	350	64.3	3.70
380.0	200	1.2	0.12
	200	1.7	0.17
	225	4.6	0.40
	225	6.0	0.52
	250	13.4	1.05
	250	15.7	1.23
	275	31.1	2.27
	275	35.5	2.60
	280	40.9	2.95
	280	41.7	3.01
	300	60.4	4.18
400.0	180	0.5	0.07
	200	0.9	0.10
	220	2.4	0.25
	240	5.6	0.53

250	8.2	0.75
260	12.5	1.10
280	24.8	2.04
300	42.2	3.30

1: Calculated from M.
2: The solubility values (shown as "x") at 637 and 907 bar at 350 K were obtained from Fig. 2 in the source article, which were calculated using an equation of state.
Source: Kraska, T.; Jurtzik, J.; Tuma, D.; Schneider, G. M. *Russ. J. Phys. Chem. 77, Suppl. 1*, (2003), S51-S57.

1,4-Bis(octylamino)anthraquinone ($C_{30}H_{42}N_2O_2$; MW=462.67) **[B-48]**

T (K)	P (bar)	M[1)] x 10^6 (mol/L)	y[2)] x 10^6
310.1	90.4	7.9	0.56
	90.4	8.1	0.57
	95.4	16.4	1.09
	95.5	16.2	1.08
	100.1	25.5	1.63
	100.3	24.1	1.54
	100.3	24.6	1.57
	105.7	33.0	2.04
	110.6	40.2	2.44
	115.0	47.4	2.82
	116.0	51.0	3.03
	116.0	51.4	3.05
	120.6	57.1	3.34
	125.9	65.8	3.79
	130.7	77.0	4.38
	135.6	86.0	4.84
	140.7	95.3	5.31
	146.0	104.6	5.77
	150.8	113.4	6.20
	155.7	122.2	6.63
	160.1	129.6	6.98
	164.4	137.7	7.37
	169.6	146.8	7.81
	174.8	155.7	8.22
	180.2	165.5	8.68
	185.1	174.1	9.08
	190.3	183.0	9.49
	195.8	192.4	9.92



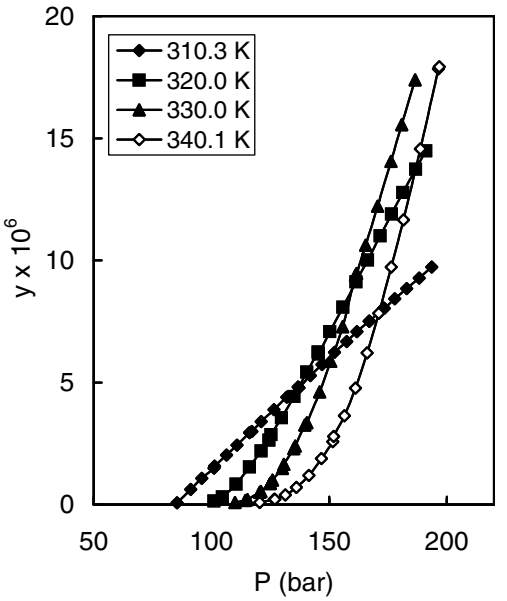
320.0	100.1	1.6	0.15
	105.4	6.2	0.52
	110.9	15.1	1.15
	115.1	20.4	1.47
	120.6	31.1	2.14
	124.7	41.4	2.77
	130.1	55.0	3.58
	135.5	69.8	4.43
	139.2	79.8	4.99
	140.2	84.3	5.25
	145.2	99.8	6.11
	150.2	115.6	6.97
	160.2	148.9	8.75
	164.8	164.7	9.58
	169.5	180.6	10.40
	169.9	182.8	10.52
	174.5	199.2	11.36
	179.5	216.4	12.23
	185.3	237.1	13.27
	191.9	260.0	14.40
	199.8	286.3	15.67
329.9	106.0	0.6	0.07
	110.0	1.0	0.11
	115.1	2.9	0.29
	120.9	7.3	0.65
	126.6	15.7	1.30
	132.0	25.0	1.95
	136.9	37.3	2.79
	139.1	44.2	3.25
	144.8	63.3	4.48
	150.1	85.1	5.85
	155.6	109.7	7.35
	159.3	127.2	8.39
	165.4	159.4	10.28
	171.3	192.7	12.19
	176.3	221.6	13.81
	180.9	248.6	15.31
	185.0	272.2	16.59
	190.1	300.9	18.12
340.1	115.7	0.6	0.08
	116.2	0.6	0.08
	121.2	1.1	0.13
	121.2	1.3	0.15
	126.2	2.4	0.26
	127.0	2.5	0.27
	130.2	4.1	0.42
	130.7	4.3	0.43
	134.8	7.1	0.68
	135.2	7.6	0.72
	139.3	11.0	1.00
	141.1	14.4	1.28

	145.9	22.4	1.90
	151.1	32.9	2.66
	151.3	34.7	2.80
	156.3	49.3	3.84
	161.9	70.9	5.33
	166.6	91.1	6.67
	172.3	117.5	8.37
	177.2	143.9	10.03
	181.9	173.3	11.86
	188.2	215.6	14.43
	194.8	261.1	17.11

1: Solubility measured using a column packed with Kieselguhr.
2: Calculated from M.
Source: Kautz, C. B. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1996.

1,4-Bis(octylamino)anthraquinone ($C_{30}H_{42}N_2O_2$; MW=462.67) **[B-49]**

T (K)	P (bar)	$M^{1)} \times 10^6$ (mol/L)	$y^{2)} \times 10^6$
310.3	85.3	0.9	0.08
	91.2	8.8	0.62
	95.9	16.1	1.07
	101.1	23.4	1.49
	101.3	24.7	1.58
	106.4	32.8	2.03
	110.8	40.1	2.43
	116.1	49.4	2.94
	117.1	50.5	2.99
	121.1	58.1	3.40
	126.5	67.3	3.88
	132.0	77.3	4.40
	136.8	85.6	4.82
	137.2	85.1	4.78
	142.0	94.9	5.28
	146.9	103.9	5.73
	152.3	114.1	6.23
	157.4	123.1	6.67
	161.8	131.4	7.07
	167.0	140.5	7.51
	167.1	140.6	7.51
	173.1	151.9	8.05
	173.4	151.6	8.03
	177.9	159.9	8.42
	182.9	168.8	8.84
	188.2	178.1	9.27
	193.5	187.9	9.72
320.0	101.1	1.5	0.14
	104.7	3.7	0.31
	110.4	11.0	0.84
	116.2	21.5	1.54
	121.1	32.0	2.20
	124.4	39.3	2.64



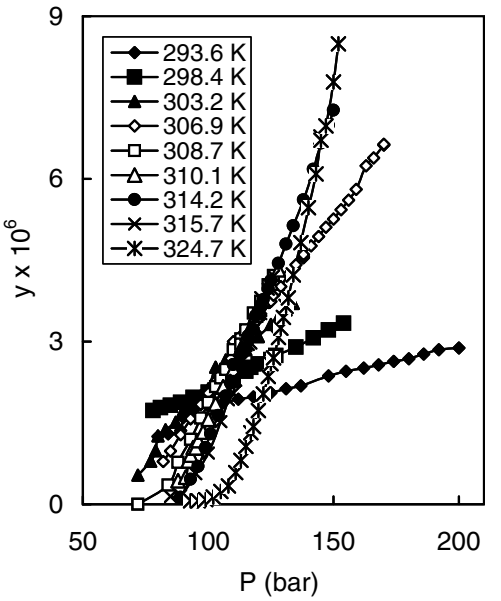
	125.3	42.9	2.86
	129.7	54.5	3.55
	135.0	69.6	4.42
	140.5	87.1	5.42
	145.3	102.1	6.25
	145.4	100.8	6.17
	150.3	117.4	7.08
	155.8	136.0	8.08
	161.4	155.5	9.11
	166.3	172.8	10.02
	171.6	191.8	11.00
	176.5	209.4	11.90
	181.3	226.8	12.78
	186.8	246.0	13.73
	191.1	261.1	14.48
330.0	110.0	0.7	0.08
	114.4	1.6	0.16
	115.3	2.0	0.20
	120.5	5.5	0.50
	121.0	6.0	0.54
	124.9	10.1	0.86
	124.9	10.2	0.87
	125.9	11.9	1.00
	130.1	18.6	1.48
	130.7	20.7	1.64
	134.9	30.1	2.29
	135.6	31.7	2.40
	139.6	44.4	3.26
	140.5	46.0	3.35
	145.9	65.5	4.61
	150.7	85.5	5.87
	155.7	108.6	7.28
	161.1	143.3	9.40
	161.7	144.6	9.46
	165.5	164.6	10.62
	170.5	192.4	12.21
	176.2	225.2	14.06
	180.8	252.3	15.55
	186.5	286.1	17.39
340.1	120.5	0.7	0.08
	126.6	2.0	0.21
	126.9	2.0	0.21
	131.4	3.9	0.39
	136.1	7.5	0.70
	141.4	13.5	1.19
	146.7	22.4	1.88
	151.5	31.9	2.57
	151.9	34.6	2.78
	156.5	46.8	3.64
	161.1	63.1	4.77
	166.1	84.6	6.21
	171.1	109.3	7.83

176.4	139.0	9.72
181.6	170.2	11.66
188.7	218.0	14.57
196.4	273.6	17.85
196.8	275.1	17.93

1: Solubility measured using a column packed with Chromosorb G-AW.
2: Calculated from M.
Source: Kautz, C. B. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1996.

1,4-Bis(octylamino)anthraquinone ($C_{30}H_{42}N_2O_2$; MW=462.67) **[B-50]**

T (K)	P (bar)	M[1] x 10^6 (mol/L)	y[2] x 10^6
293.6	80	23.4	1.25
	84	24.6	1.30
	89	25.9	1.36
	90	30.6	1.60
	94	33.4	1.74
	100	35.2	1.82
	106	36.7	1.87
	112	38.2	1.94
	118	39.3	1.98
	125	41.1	2.05
	131	42.9	2.13
	137	44.2	2.18
	148	48.4	2.36
	155	50.5	2.45
	162	52.0	2.51
	168	53.5	2.57
	174	55.1	2.64
	180	56.3	2.68
	186	58.4	2.77
	192	60.3	2.85
	200	61.3	2.88
298.4	78	29.4	1.73
	81	31.5	1.78
	85	32.6	1.82
	89	33.9	1.88
	94	36.1	1.97
	100	38.3	2.07
	105	40.4	2.16
	110	43.3	2.29
	115	46.7	2.45
	117	48.3	2.52
	120	49.6	2.59
	125	51.6	2.67
	127	53.1	2.74
	135	56.7	2.90
	142	60.6	3.07
	148	63.9	3.22
	154	66.8	3.34



303.2	72	4.5	0.54
	77	12.3	0.79
	79	15.6	0.99
	80	20.2	1.26
	83	22.4	1.37
	87	25.3	1.52
	90	29.4	1.74
	91	29.7	1.75
	92	31.0	1.82
	95	33.2	1.92
	97	34.8	2.00
	100	37.4	2.13
	103	44.8	2.53
	105	44.0	2.47
	107	47.6	2.66
	109	49.2	2.74
	110	48.5	2.69
	112	51.6	2.85
	115	52.0	2.85
	120	56.9	3.09
	125	61.6	3.32
	128	64.6	3.46
	131	67.3	3.59
	134	69.8	3.71
306.9	82	11.1	0.79
	85	14.6	0.98
	89	20.0	1.28
	93	25.3	1.58
	93	25.3	1.58
	97	30.1	1.84
	97	30.2	1.84
	100	34.1	2.05
	103	38.2	2.27
	106	42.3	2.49
	109	46.2	2.69
	110	51.7	3.00
	112	50.6	2.92
	113	53.9	3.10
	115	54.6	3.12
	116	56.6	3.23
	118	58.5	3.32
	119	59.6	3.37
	121	62.4	3.51
	123	66.5	3.72
	125	67.1	3.74
	126	69.3	3.85
	128	71.3	3.95
	128	71.4	3.96
	129	72.6	4.02
	132	77.1	4.24
	135	80.8	4.42
	138	83.6	4.54

	138	84.1	4.57
	138	84.7	4.61
	141	88.0	4.76
	144	91.7	4.94
	147	95.4	5.11
	150	98.5	5.26
	153	102.3	5.43
	156	106.0	5.61
	159	110.2	5.81
	163	119.0	6.24
	166	122.3	6.39
	170	127.4	6.62
	170	127.7	6.64
308.7	72	0.0	0.00
	84	4.6	0.35
	88	11.2	0.77
	93	18.3	1.20
	97	25.1	1.59
	100	30.2	1.88
	103	35.4	2.17
	105	38.4	2.33
	107	41.3	2.49
	110	48.0	2.85
	113	51.8	3.05
	113	50.2	2.95
	115	55.0	3.22
	118	60.9	3.53
	121	65.1	3.74
	124	71.0	4.05
	126	74.4	4.22
310.1	88	5.9	0.44
	91	7.1	0.50
	92	11.6	0.80
	93	13.3	0.90
	94	15.5	1.04
	95	15.6	1.04
	95	15.6	1.04
	96	17.8	1.18
	98	20.5	1.33
	100	24.5	1.57
	103	29.4	1.85
	106	35.1	2.17
	110	41.0	2.49
	113	47.9	2.88
	116	53.3	3.16
	119	59.4	3.49
	122	64.3	3.75
	125	70.7	4.08
	128	75.4	4.32

314.2	89	1.2	0.13
	89	1.2	0.13
	93	5.5	0.46
	96	9.0	0.70
	99	14.3	1.05
	101	18.2	1.30
	104	23.8	1.64
	107	29.8	2.00
	109	33.8	2.23
	110	39.4	2.58
	112	40.0	2.58
	113	43.3	2.78
	113	43.3	2.78
	115	45.4	2.89
	116	49.1	3.10
	118	51.5	3.23
	119	55.7	3.48
	121	58.7	3.63
	122	61.3	3.77
	124	65.0	3.97
	125	67.7	4.12
	128	73.8	4.44
	131	80.5	4.80
	134	86.9	5.14
	138	96.1	5.62
	142	106.7	6.17
	145	116.2	6.67
	145	115.9	6.66
	148	122.5	6.99
	150	127.9	7.27
315.7	85	1.0	0.15
	89	1.4	0.16
	95	6.4	0.56
	100	12.3	0.95
	105	21.4	1.52
	108	27.9	1.93
	110	30.3	2.05
	111	34.0	2.29
	113	37.3	2.47
	114	40.4	2.66
	115	44.8	2.93
	116	45.3	2.95
	117	46.0	2.98
	118	50.0	3.21
	119	51.0	3.26
	120	55.0	3.50
	121	60.2	3.81
	121	56.5	3.58
	121	55.5	3.51
	122	59.0	3.72
	124	63.5	3.97
	126	67.9	4.21

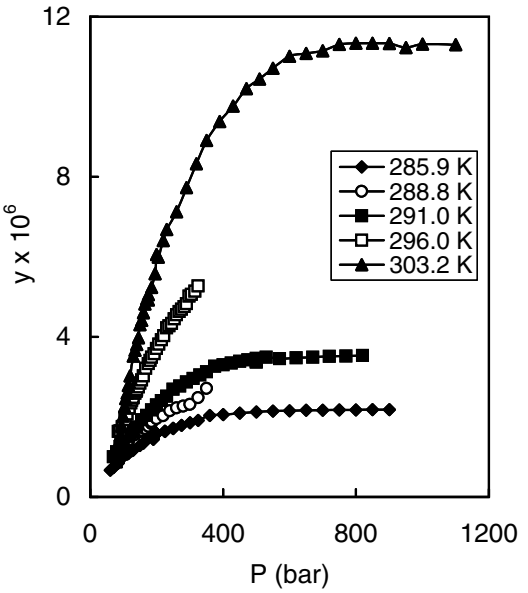
324.7	93	0.4	0.06
	96	0.5	0.06
	99	0.7	0.08
	102	1.2	0.13
	105	2.3	0.24
	108	3.5	0.34
	111	6.5	0.58
	113	9.4	0.81
	115	12.8	1.07
	117	16.3	1.32
	118	18.1	1.45
	118	17.9	1.43
	120	22.2	1.73
	122	26.7	2.03
	124	31.6	2.36
	125	35.1	2.59
	126	36.9	2.70
	128	42.7	3.07
	129	45.4	3.24
	130	48.6	3.45
	131	51.9	3.65
	132	54.5	3.81
	134	61.3	4.23
	137	71.1	4.82
	140	82.0	5.47
	143	92.6	6.09
	145	103.9	6.77
	145	102.9	6.71
	147	107.9	6.97
	150	121.9	7.79
	152	133.8	8.49

1: Measured with two different UV/Vis spectrometers.
2: Calculated from M.
Source: Tuma, D.; Schneider, G. M. *J. Supercrit. Fluids* (1998), 13, 37-42.

1,4-Bis(octylamino)anthraquinone ($C_{30}H_{42}N_2O_2$; MW=462.67) **[B-51]**

T (K)	P (bar)	M[1)] x 10^6 (mol/L)	y[2)] x 10^6
285.9	60	13.1	0.67
	70	14.5	0.73
	80	16.7	0.83
	85	17.2	0.85
	90	19.1	0.94
	100	20.9	1.02
	110	22.1	1.07
	115	22.6	1.08
	125	24.3	1.16
	130	24.7	1.17
	130	25.1	1.19

	150	27.6	1.29
	160	28.9	1.34
	175	32.4	1.49
	190	31.6	1.44
	190	31.9	1.46
	200	34.9	1.58
	200	35.0	1.59
	225	36.5	1.64
	225	36.6	1.64
	250	38.5	1.71
	250	38.7	1.72
	275	40.7	1.79
	300	42.6	1.86
	325	44.3	1.91
	360	47.8	2.04
	400	48.9	2.06
	450	50.4	2.10
	500	51.6	2.12
	550	52.6	2.14
	600	53.4	2.15
	650	54.2	2.17
	700	54.8	2.17
	750	55.4	2.18
	800	55.8	2.18
	850	56.3	2.18
	900	56.8	2.18
288.8	90	25.4	1.28
	110	27.7	1.36
	117	29.3	1.43
	135	32.5	1.56
	145	33.9	1.62
	155	35.2	1.66
	165	36.4	1.71
	175	37.9	1.77
	185	39.5	1.83
	185	40.7	1.89
	200	42.5	1.95
	220	44.6	2.03
	240	47.8	2.15
	260	49.8	2.23
	280	51.1	2.27
	300	52.7	2.32
	325	56.9	2.48
	350	62.8	2.71
291.0	70	19.0	1.00
	80	21.6	1.12
	90	24.6	1.26
	100	27.4	1.38
	110	30.3	1.51
	120	31.7	1.56



	125	34.3	1.68
	130	33.8	1.65
	140	36.1	1.75
	155	40.3	1.93
	170	43.1	2.04
	185	46.4	2.17
	200	49.4	2.30
	215	52.3	2.41
	230	55.0	2.51
	250	59.5	2.69
	270	61.8	2.77
	290	64.5	2.87
	310	67.1	2.96
	330	69.6	3.05
	350	72.0	3.13
	375	75.6	3.26
	400	77.1	3.30
	425	78.6	3.34
	450	80.2	3.39
	475	81.7	3.43
	500	83.0	3.46
	500	80.8	3.37
	500	81.3	3.39
	530	84.4	3.49
	570	84.2	3.46
	620	85.6	3.48
	670	86.8	3.49
	720	88.1	3.52
	770	89.0	3.52
	820	90.0	3.54
296.0	85	30.2	1.64
	90	30.7	1.65
	97	32.9	1.74
	97	33.3	1.76
	105	37.1	1.94
	111	40.1	2.07
	115	45.0	2.31
	117	43.2	2.22
	117	43.4	2.22
	120	46.6	2.38
	123	46.2	2.35
	125	47.5	2.41
	129	48.9	2.47
	130	49.3	2.49
	135	51.6	2.59
	138	52.7	2.64
	138	52.9	2.65
	140	53.6	2.68
	145	55.3	2.75

	150	57.5	2.84
	155	59.4	2.93
	160	61.8	3.03
	167	66.0	3.21
	175	68.8	3.33
	180	70.6	3.41
	185	72.6	3.49
	193	74.9	3.58
	200	77.9	3.71
	207	80.7	3.82
	215	83.4	3.93
	222	85.9	4.03
	230	90.5	4.23
	237	91.9	4.27
	245	93.6	4.33
	253	96.5	4.45
	260	99.0	4.55
	268	101.2	4.63
	275	102.8	4.69
	283	104.6	4.76
	290	106.6	4.83
	298	111.1	5.01
	305	112.4	5.06
	315	114.7	5.14
	325	118.0	5.27
303.2	79	14.0	0.88
	83	18.1	1.11
	87	22.6	1.35
	91	26.6	1.56
	95	30.6	1.77
	99	35.4	2.02
	103	40.0	2.26
	107	44.0	2.46
	111	47.0	2.60
	115	50.8	2.79
	120	55.7	3.03
	130	66.0	3.52
	135	69.1	3.66
	140	72.5	3.81
	145	76.2	3.98
	150	82.9	4.30
	155	85.6	4.41
	160	89.8	4.61
	165	94.6	4.82
	170	97.5	4.95
	175	100.1	5.05
	175	97.5	4.92
	185	104.8	5.24
	195	112.6	5.58
	200	122.8	6.06
	205	121.8	5.99

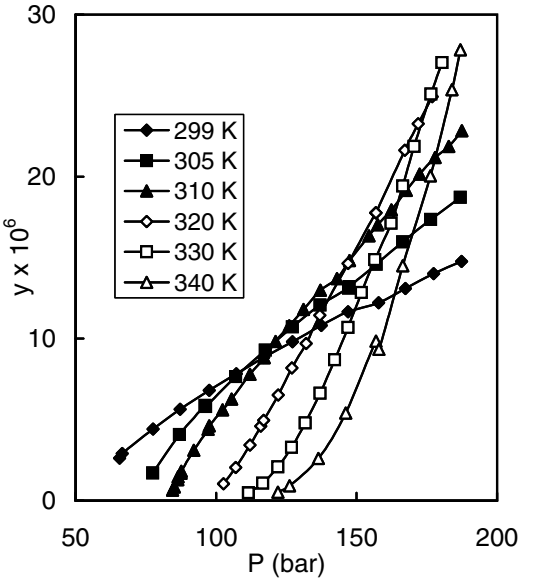
220	131.8	6.41
230	138.5	6.69
260	150.5	7.13
290	165.9	7.73
320	181.3	8.33
350	196.5	8.91
390	210.1	9.38
430	221.8	9.77
470	234.7	10.20
510	242.9	10.44
550	251.8	10.71
600	262.0	11.01
650	266.6	11.08
700	271.0	11.15
750	277.5	11.31
800	280.6	11.34
850	283.1	11.34
900	285.1	11.33
950	284.6	11.23
1000	288.8	11.31
1100	292.3	11.30

1: Measured with three different UV/Vis spectrometers.
2: Calculated from M.
Source: Tuma, D.; Schneider, G. M. *J. Supercrit. Fluids* (1998), 13, 37-42.

1,4-Bis(pentylamino)anthraquinone ($C_{24}H_{30}N_2O_2$; MW=378.51) **[B-52]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
299.0	65.6	41.6	2.63
	66.6	46.7	2.91
	77.6	76.4	4.42
	87.2	100.8	5.64
	97.6	125.1	6.82
	107.2	146.4	7.83
	116.9	168.1	8.84
	127.2	189.5	9.82
	137.4	211.3	10.81
	147.0	230.4	11.66
	157.8	244.3	12.22
	167.4	264.1	13.09
	177.4	285.3	14.02
	187.4	303.1	14.77
305.0	77.5	24.4	1.71
	87.0	65.6	4.08
	96.1	99.1	5.87
	96.3	98.0	5.81
	107.0	133.9	7.65
	117.5	167.1	9.29
	127.2	196.7	10.72
	137.0	225.1	12.07
	147.2	248.3	13.11

	147.4	250.0	13.19
	157.0	279.8	14.58
	166.4	310.1	15.98
	176.4	340.4	17.35
	186.9	371.0	18.71
310.0	84.5	7.6	0.65
	85.1	10.2	0.84
	86.4	16.7	1.30
	86.5	19.0	1.47
	87.5	22.4	1.68
	87.6	24.2	1.81
	92.1	45.2	3.10
	97.1	67.4	4.40
	97.6	71.1	4.62
	102.3	89.0	5.61
	105.5	101.3	6.27
	112.0	129.7	7.80
	117.1	149.3	8.82
	121.2	168.4	9.82
	126.0	187.7	10.80
	131.1	207.8	11.80
	137.1	231.5	12.98
	143.0	247.5	13.71
	147.5	269.7	14.82
	154.4	301.0	16.35
	157.5	315.1	17.03
	162.4	334.4	17.95
	167.7	359.4	19.15
	172.4	380.9	20.16
	177.9	402.8	21.18
	182.8	418.4	21.87
	187.5	439.2	22.83
320.0	102.6	11.7	1.05
	107.0	25.4	2.05
	112.0	45.8	3.42
	115.9	64.3	4.60
	116.9	69.8	4.95
	122.1	95.7	6.52
	127.0	123.9	8.18
	132.0	150.5	9.69
	136.9	181.4	11.44
	147.0	240.3	14.63
	156.8	299.7	17.76
	156.9	299.8	17.76
	167.2	373.8	21.62
	171.9	405.9	23.26
	176.9	439.1	24.93
330.0	111.5	4.6	0.49
	116.6	11.1	1.08
	122.0	23.6	2.09
	126.9	39.8	3.29



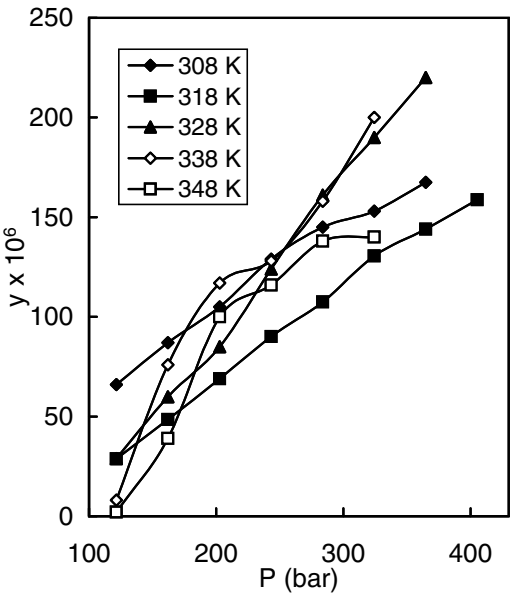
	131.7	61.1	4.79
	137.0	88.7	6.64
	142.2	120.8	8.70
	147.0	152.8	10.69
	151.7	188.1	12.84
	156.5	222.8	14.88
	162.3	262.3	17.12
	166.4	301.8	19.42
	170.5	344.3	21.86
	176.5	402.3	25.09
	180.4	438.1	27.03
340.0	122.0	4.6	0.53
	126.1	8.5	0.91
	136.4	27.9	2.61
	146.1	64.2	5.41
	156.9	127.1	9.84
	157.9	121.3	9.34
	166.4	198.1	14.50
	176.3	286.8	20.05
	183.9	373.9	25.37
	186.9	414.4	27.83

1: Calculated from M.
Synonym: C. I. Solvent Blue 14
Source: Tuma, D.; Wagner, B.; Schneider, G. M. *Fluid Phase Equil.* (2001), 182, 133-143. (**Another Source**: Wagner, B. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1998.)

1,4-Bis(prop-2'-enyloxy)anthraquinone[1] ($C_{20}H_{16}O_4$; MW=320.34) **[B-53]**

T (K)	P (bar)	S (g/L)	$y^{2)} \times 10^6$
308.15	121.6	0.37	66
	162.1	0.52	87
	202.7	0.66	105
	243.2	0.84	129
	283.7	0.98	145
	324.2	1.05	153
	364.8	1.17	167

318.15	121.6	0.14	29
	162.1	0.27	48
	202.7	0.41	69
	243.2	0.56	90
	283.7	0.69	107
	324.2	0.86	130
	364.8	0.97	144
	405.3	1.09	159
328.15	121.6	0.11	29
	162.1	0.30	60
	202.7	0.47	85
	243.2	0.73	124
	283.7	0.98	161
	324.2	1.20	190
	364.8	1.42	220
338.15	121.6	0.02	8
	162.1	0.33	76
	202.7	0.59	117
	243.2	0.70	128
	283.7	0.92	158
	324.2	1.20	200
348.15	121.6	0.01	2
	162.1	0.15	39
	202.7	0.46	100
	243.2	0.59	116
	283.7	0.75	138
	324.2	0.80	140

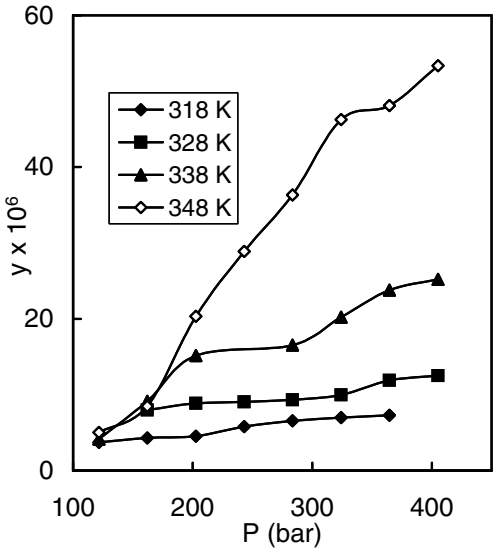


1: In the source table the compound was named 1,8-Bis(prop-2'-enyloxy)anthraquinone, but it must be 1,4-Bis(prop-2'-enyloxy)anthraquinone as the authors synthesized it from 1,4-Dihydroxyanthraquinone. Figure 1 in the source also shows this 1,4- form.
2: Some of the y values did not agree with S and thus were re-calculated based on S (The corrected values are in italics).
Synonym: 1,4-Bis(allyloxy)anthraquinone
Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (1998), 43(3), 400-402.

1, 8-Bis(prop-2′-enyloxy)anthraquinone ($C_{20}H_{16}O_4$; MW=320.34) **[B-54]**

T(K)	P(bar)	S (g/m^3)	y x 10^6
318.15	122	18	3.7
	162	24	4.3
	203	27	4.5
	243	36	5.8
	284	42	6.5
	324	46	7.0
	365	49	7.3

328.15	162	40	8.0
	203	49	8.9
	243	53	9.0
	284	57	9.3
	324	63	10.0
	365	77	11.9
	405	83	12.5
338.15	122	12	4.2
	162	40	9.1
	203	77	15.1
	284	96	16.6
	324	122	20.2
	365	148	23.8
	405	161	25.2
348.15	122	12	5.0
	162	32	8.5
	203	94	20.3
	243	148	28.9
	284	199	36.3
	324	266	46.3
	365	287	48.1
	405	328	53.3

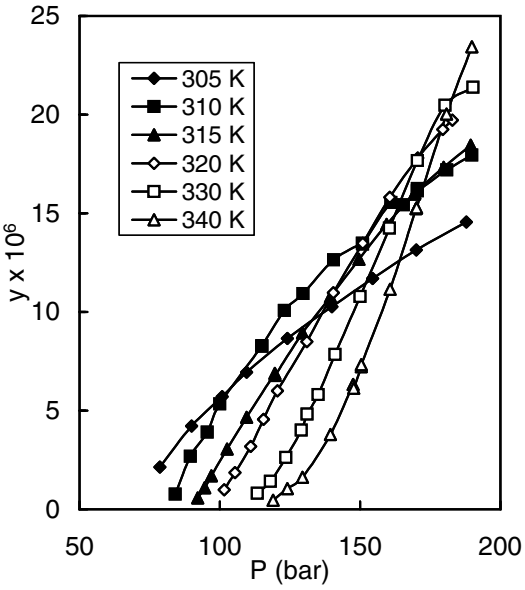


1: The y values in the original article did not agree with S values (one order of magnitude larger than those expected) and thus were re-calculated based on S.
Synonym: 1,8-Bis(allyloxy)anthraquinone
Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *Talanta* (1999), 48(4), 951-957.

1,4-Bis(propylamino)anthraquinone ($C_{20}H_{22}N_2O_2$; MW=322.41) **[B-55]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
305.0	78.7	31.5	2.14
	90.0	69.1	4.22
	100.9	98.0	5.71
	109.5	122.6	6.95
	124.1	157.8	8.65
	140.0	192.4	10.27
	154.4	223.7	11.69
	170.0	255.9	13.13
	187.9	288.9	14.56
310.0	84.1	8.7	0.77
	89.5	37.5	2.68
	95.6	59.1	3.91
	100.0	83.4	5.33
	114.9	138.8	8.26
	115.0	139.3	8.28
	123.1	173.8	10.08
	129.7	191.7	10.93
	140.6	226.9	12.63
	150.9	246.6	13.48
	150.9	245.9	13.44

	161.0	289.0	15.54
	165.4	288.7	15.42
	170.4	306.1	16.25
	170.5	304.1	16.14
	180.9	328.3	17.20
	189.9	346.2	17.95
315.0	92.1	6.0	0.57
	94.6	12.9	1.09
	97.0	21.4	1.69
	102.6	42.7	3.06
	109.5	69.7	4.66
	119.6	109.3	6.88
	119.8	107.8	6.79
	129.5	147.6	8.93
	139.5	183.3	10.76
	149.6	221.0	12.67
	159.5	257.1	14.44
	169.4	289.4	15.98
	169.5	290.3	16.03
	179.8	319.1	17.34
	189.4	344.1	18.45
320.0	101.6	10.7	0.98
	105.4	22.3	1.85
	111.0	42.0	3.19
	115.5	63.3	4.55
	120.5	87.1	6.00
	131.0	131.3	8.50
	140.5	176.4	10.98
	150.9	224.1	13.49
	160.5	269.2	15.81
	170.5	309.7	17.80
	179.4	340.6	19.25
	182.9	351.0	19.72
330.0	113.4	7.9	0.82
	118.0	15.0	1.42
	123.5	30.3	2.62
	129.0	49.7	4.01
	131.1	61.1	4.82
	135.1	76.4	5.81
	141.1	108.2	7.85
	150.0	156.5	10.78
	160.4	216.7	14.25
	170.5	278.3	17.67
	180.3	331.7	20.47
	190.3	355.0	21.39

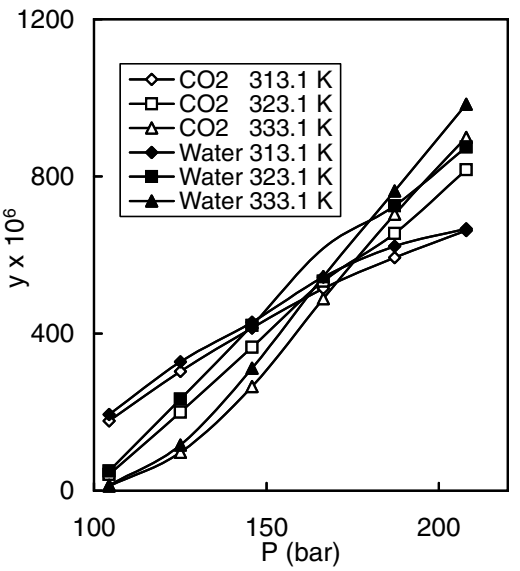


340.0	119.0	3.8	0.45
	124.1	9.4	1.04
	129.5	15.9	1.62
	139.5	42.0	3.79
	147.6	76.0	6.32
	147.7	73.9	6.14
	150.4	89.0	7.23
	150.5	90.2	7.33
	160.7	147.4	11.15
	169.9	211.8	15.23
	170.2	212.8	15.29
	180.8	291.8	20.03
	189.8	352.4	23.43

1: Calculated from M.
Source: Wagner , B.; Kautz, C.B.; Schneider, G. M. *Fluid Phase Equil.* (1999), 158-160, 707-712.

1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane[1] ($C_{14}H_{95}Cl$; MW=354.49) **[B-56]**

T (K)	P (bar)	Water[2)]	y[3)] x 10^6
313.1	104.4	0	178
	125.1	0	304
	145.8	0	414
	166.5	0	515
	187.2	0	593
	207.9	0	662
323.1	104.4	0	41
	125.1	0	200
	145.8	0	365
	166.5	0	533
	187.2	0	655
	207.9	0	817
333.1	104.4	0	12
	125.1	0	98
	145.8	0	265
	166.5	0	489
	187.2	0	704
	207.9	0	899
313.1	104.4	saturated	194
	125.1	saturated	328
	145.8	saturated	429
	166.5	saturated	544
	187.2	saturated	622
	207.9	saturated	667

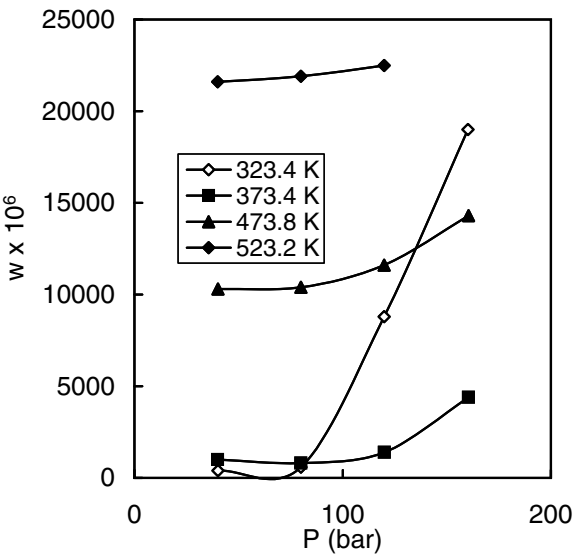


323.1	104.4	saturated	50
	125.1	saturated	233
	145.8	saturated	421
	166.5	saturated	617
	187.2	saturated	725
	207.9	saturated	875
333.1	104.4	saturated	14
	125.1	saturated	116
	145.8	saturated	312
	166.5	saturated	545
	187.2	saturated	763
	207.9	saturated	984

1: Used as a pesticide.
2: Cosolvent in CO_2.
3: Obtained by digitizing the graph in the original article.
Synonyms: DDT; 4,4'-DDT; 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane
Source: Macnaughton, S. J.; Foster, N. R. *Ind. Eng. Chem. Res.* (1994), 33(11), 2757-2763.

Bitumen[1)] **[B-57]**

T (K)	P (bar)	w x 10^6
323.35	40.1	390
	79.9	580
	119.9	8800
	160.1	19000
373.35	40.0	1000
	80.0	810
	120.0	1400
	160.4	4400
473.75	40.1	10300
	80.0	10400
	119.9	11600
	160.4	14300
523.15	40.0	21600
	80.0	21900
	119.9	22500



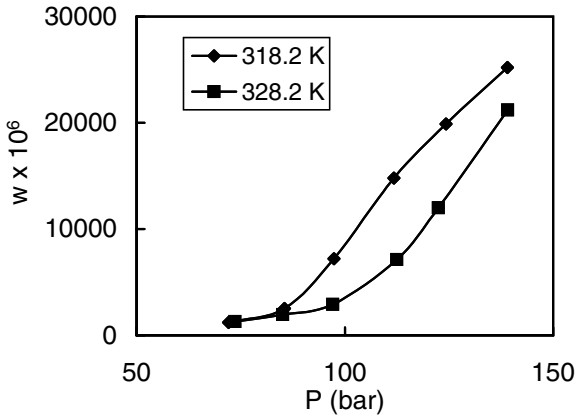
1: Cold Lake bitumen from Esso Resources Canada.
Source: Yu, J. M.; Huang, S. H.; Radosz, M. *Fluid Phase Equil.* (1989), 53, 429-438.

Bitumen[1)] **[B-58]**

T (K)	P (bar)	w x 10^6
318.15	72.1	1200
	85.5	2530
	97.4	7210
	111.8	14800
	124.3	19900
	139.0	25200
328.15	73.6	1300
	85.1	1950
	97.1	2900
	112.5	7120
	122.5	12000
	139.1	21200

1: Volatile components were extracted from Peace River bitumen (Canada).

Source: Han, B.; Peng, D. Y.; Fu, C. T.; Vilcsak, G. *Can. J. Chem. Eng.*(1992), 70(6), 1164-1171.

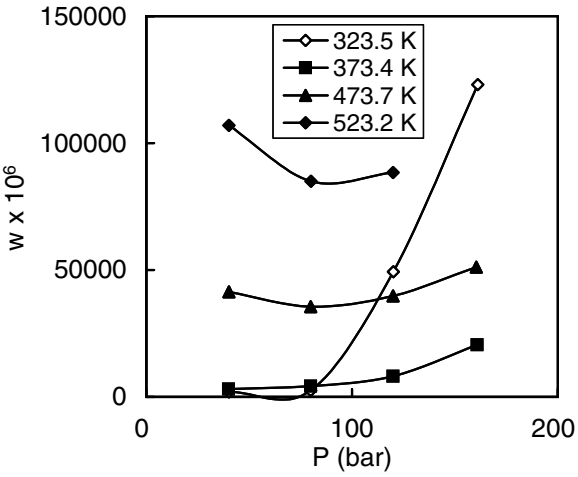


Bitumen Cut 1[1)] (MW=201) **[B-59]**

T (K)	P (bar)	w x 10^6
323.5	40.1	1940
	79.9	2540
	120.1	49300
	161.1	123000
373.4	40.0	3130
	79.9	4300
	119.9	8150
	160.8	20500
473.7	40.1	41400
	79.9	35600
	119.9	39800
	160.4	51200
523.2	40.1	107000
	80.0	85000
	119.9	88400

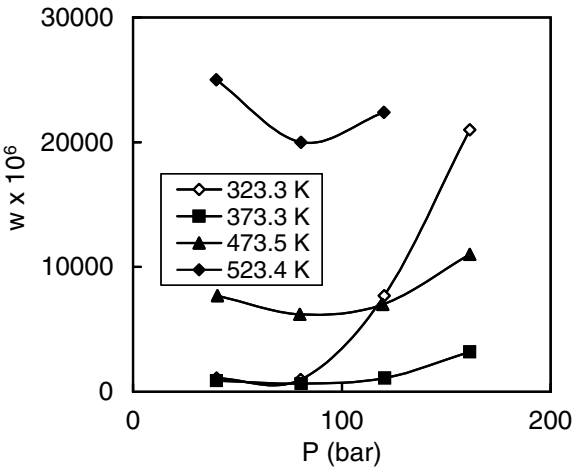
1: One of the five fractions obtained from distillation of Cold Lake bitumen made by Esso Resources Canada.

Source: Huang, S. H.; Radosz, M. *Fluid Phase Equil.* (1990), 60(1-2), 81-98.



Bitumen Cut 2[1)] (MW=304) **[B-60]**

T (K)	P (bar)	w x 10^6
323.3	40.0	1100
	80.3	970
	120.3	7700
	161.2	21000
373.3	40.0	880
	80.5	650
	120.5	1100
	161.2	3200
473.5	40.4	7700
	79.8	6200
	119.6	7000
	161.2	11000
523.4	39.9	25000
	80.4	20000
	120.2	22400

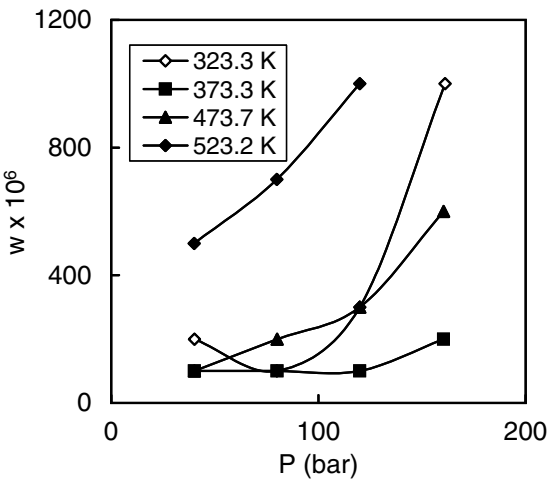


1: One of the five fractions obtained from distillation of Cold Lake bitumen made by Esso Resources Canada.

Source: Huang, S. H.; Radosz, M. *Fluid Phase Equil.* (1990), 60(1-2), 81-98.

Bitumen Cut 3[1)] (MW=572) **[B-61]**

T (K)	P (bar)	w x 10^6
323.3	40.1	200
	79.9	100
	119.9	300
	161.1	1000
373.3	40.1	100
	80.0	100
	119.9	100
	160.4	200
473.7	40.1	100
	80.0	200
	119.9	300
	160.4	600
523.2	40.0	500
	79.9	700
	119.9	1000

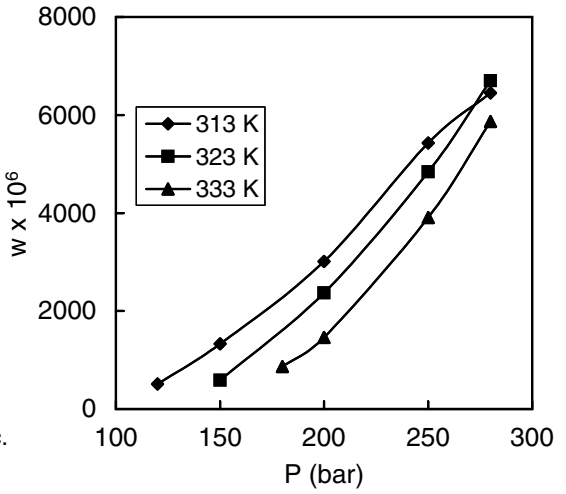


1: One of the five fractions obtained from distillation of Cold Lake bitumen made by Esso Resources Canada.

Source: Huang, S. H.; Radosz, M. *Fluid Phase Equil.* (1990), 60(1-2), 81-98.

Blackcurrant[1] seed oil **[B-62]**

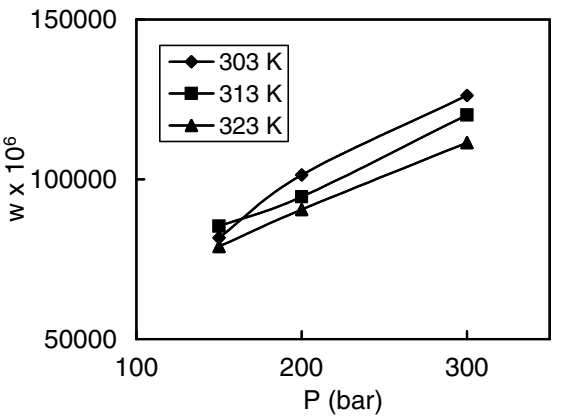
T (K)	P (bar)	W (g/kg)	w[2] x 10^6
313.15	120	0.51	510
	150	1.33	1330
	200	3.02	3010
	250	5.46	5430
	280	6.49	6450
323.15	150	0.59	590
	200	2.38	2370
	250	4.86	4840
	280	6.74	6700
333.15	180	0.87	870
	200	1.46	1460
	250	3.92	3910
	280	5.90	5870



1: *Tibes nigrum* obtained from Czech Republic.
2: Calculated from W.
Source: Sovova, H.; Zarevucka, M.; Vacek, M.; Stransky, K. *J. Supercrit. Fluids* (2001), 20(1), 15-28.

Black pepper[1] essential oil **[B-63]**

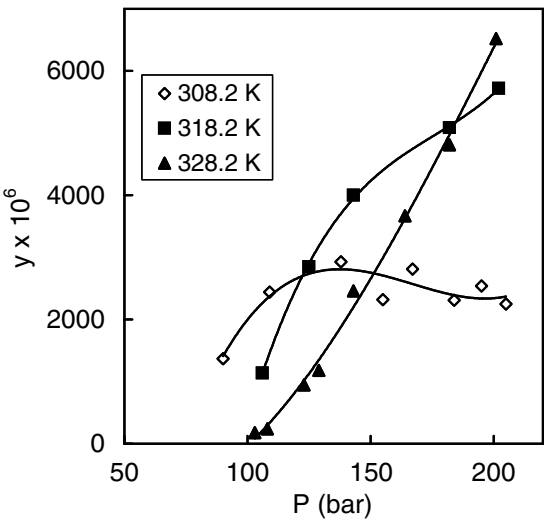
T (K)	P (bar)	W (g/kg CO_2)	w[1] x 10^6
303.15	150	89.0	81700
	200	112.9	101400
	300	144.4	126200
313.15	150	93.2	85300
	200	104.4	94500
	300	136.5	120100
323.15	150	85.8	79000
	200	99.5	90500
	300	125.5	111500



1: *Piper nigrum L.* produced in Brazil.
2: Calculated from W.
Source: Ferreira, S. R. S.; Nikolov, Z. L.; Doraiswamy, L. K.; Meireles, M. A. A.; Petenate, A. J. *J. Supercrit. Fluids* (1999), 14(3), 235-245.

(*S*)-Boc-Piperazine ($C_{14}H_{27}N_3O_3$; FW=285.39) **[B-64]**

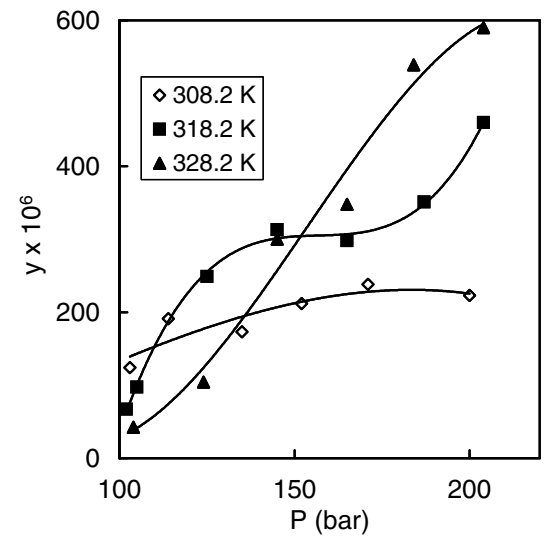
T (K)	P (bar)	y x 10^6
308.2	90.1	1370
	109	2440
	138	2930
	155	2320
	167	2810
	184	2310
	195	2540
	205	2250
318.2	106	1140
	125	2850
	143	4000
	182	5090
	202	5720
328.2	103	178
	108	241
	123	946
	129	1180
	143	2460
	164	3670
	182	4810
	201	6520



Synonym: (S)-*tert*-butyl 3-(*tert*-butylcarbamoyl)piperazine-1-carboxylate
Source: Uchida, H.; Usui, I.; Fuchita, A.; Matsuoka, M. *J. Chem. Eng. Data* (2004), 49(6), 1560-1564.

***rac*-Boc-Piperazine[1)]** ($C_{14}H_{27}N_3O_3$; MW=285.39) **[B-65]**

T (K)	P (bar)	y x 10^6
308.21	03	124
	114	191
	135	173
	152	212
	171	238
	200	223
318.2	102	67
	105	98
	125	249
	145	313
	165	298
	187	351
	204	460
328.2	104	42
	124	104
	145	300
	165	348
	184	539
	204	590

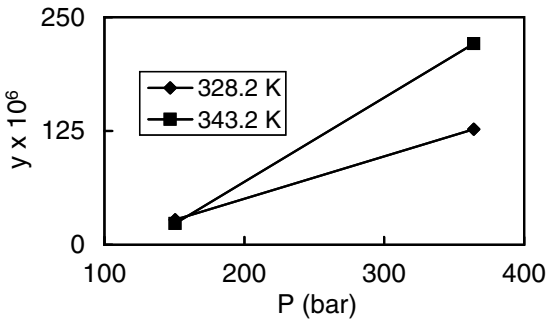


1: An equimolar mixture of (*S*)- and (*R*)-Boc-Piperazines.
Source: Uchida, H.; Usui, I.; Fuchita, A.; Matsuoka, M. *J. Chem. Eng. Data* (2004), 49(6), 1560-1564.

Brassylic acid ($C_{13}H_{24}O_4$; MW=244.33) **[B-66]**

T (K)	P (bar)	y x 10^6
328.2	150.5	27.6
	364.0	127.0
343.2	150.5	23.2
	364.0	221.0

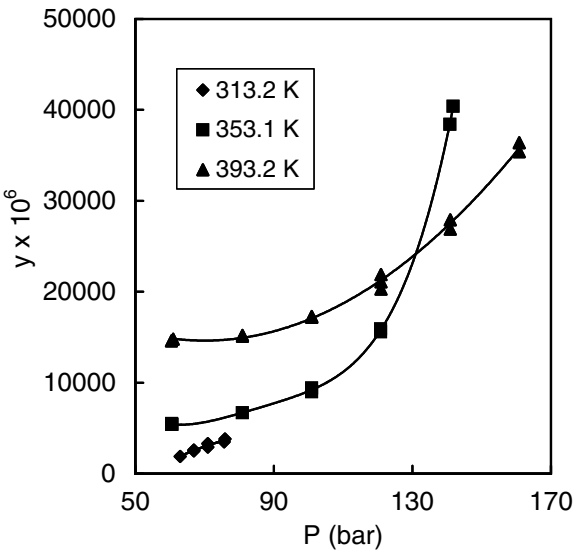
Synonym: Tridecanedioic acid
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Bromobenzene (C_6H_5Br; MW=157.01) **[B-67]**

T (K)	P (bar)	y x 10^6
313.2	62.9	1900
	66.9	2600
	66.9	2500
	70.9	3300
	70.9	2900
	75.6	3500
	75.9	3800
353.1	60.6	5400
	60.5	5500
	60.5	5400
	80.9	6700
	100.9	9000
	100.9	9400
	120.8	15600
	120.8	15900
	140.8	38400
	141.8	40400
393.2	60.4	14600
	60.9	14800
	80.9	15100
	80.9	15200
	100.9	17200
	100.9	17300
	120.9	21900
	120.9	21100
	120.9	20300
	140.9	27900
	140.9	26900
	160.8	35400
	160.8	36400

Source: Walther, D.; Maurer, G. *Ber. Bunsenges. Phys. Chem.* (1992), 96(8), 981-988.

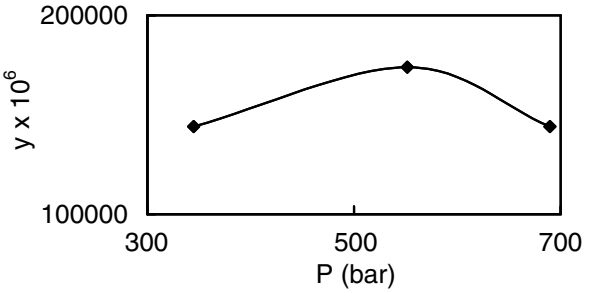


***n*-Butanol** ($C_4H_{10}O$; MW=74.12) **[B-68]**

T(K)	P(bar)	y x 10^6
325.15	345	144000
	552	174000
	690	144000

Synonym: Butyl alcohol

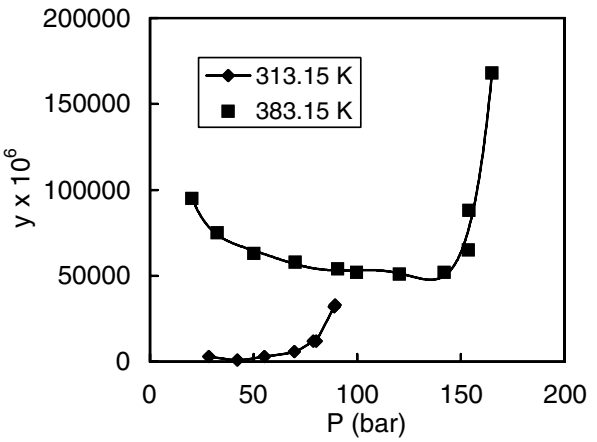
Source: Eissier, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.



***n*-Butanol** ($C_4H_{10}O$; MW=74.12)

T (K)	P (bar)	y x 10^6
313.15	28.4	3000
	42.1	1000
	55.2	3000
	69.6	6000
	78.8	12000
	80.3	12000
	88.9	32000
	89.3	33000
383.15	20.3	95000
	32.5	75000
	50.2	63000
	70.2	58000
	90.7	54000
	99.7	52000
	120.4	51000
	142.0	52000
	153.6	65000
	154.0	88000
	165.0	168000

[B-69]

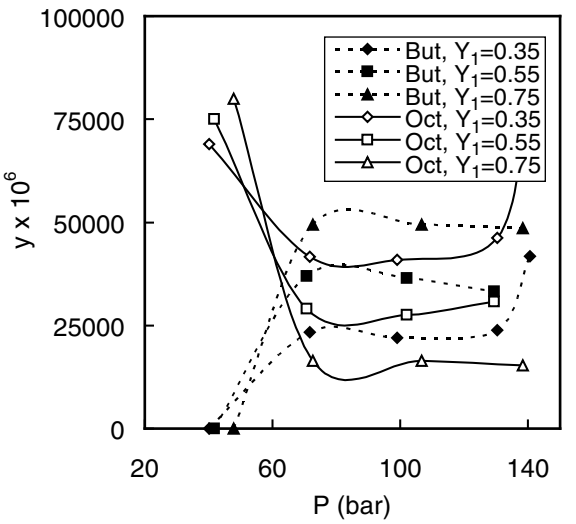


Synonyms: 1-Butanol; Butyl alcohol

Source: King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp.31-80.

_n_-Butanol(1) + _n_-Octane(2) Mixture **[B-70]**

T (K)	P (bar)	y_1 X 10^6	y_2 X 10^6
		$Y_1 \approx 0.35$	
383.15	40.2	0	69000
	71.7	23400	41600
	99.0	22050	40950
	130.3	23800	46200
	140.6	41820	81180
		$Y_1 \approx 0.55$	
	41.8	0	75000
	70.7	36960	29040
	102.1	36480	27520
	129.4	33280	30720
		$Y_1 \approx 0.75$	
	47.9	0	80000
	72.6	49500	16500
	106.7	49500	16500
	138.4	48640	15360

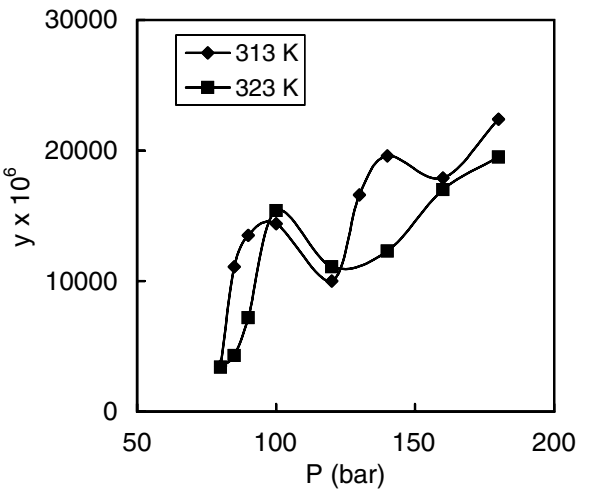


Y_1: Mole fraction of _n_-Butanol on a CO_2-free basis.
Source: King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp. 31-80

Butyl acetate ($C_6H_{12}O_2$; MW=116.16)

T (K)	P (bar)	y x 10^6
313	80	3500
	85	11100
	90	13500
	100	14400
	120	10000
	130	16600
	140	19600
	160	17900
	180	22400
323	80	3400
	85	4300
	90	7200
	100	15400
	120	11100
	140	12300
	160	17000
	180	19500

[B-71]

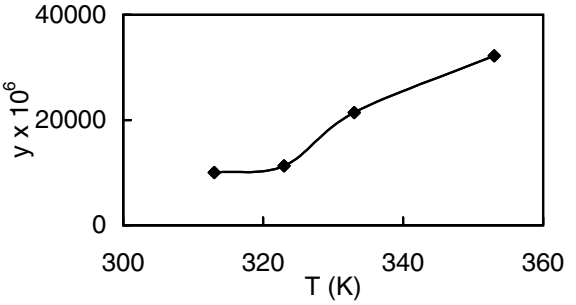


Source: Ghaziaskar, H. S.; Nikravesh, M. *Fluid Phase Equil.* (2003), 206(1-2), 215-221.

Butyl acetate ($C_6H_{12}O_2$; MW=116.16) **[B-72]**

P (bar)	T (K)	y x 10^6
123	313	10000
	323	11300
	333	21400
	353	32200

Source: Ghaziaskar, H. S.; Nikravesh, M. *Fluid Phase Equil.* (2003), 206(1-2), 215-221.

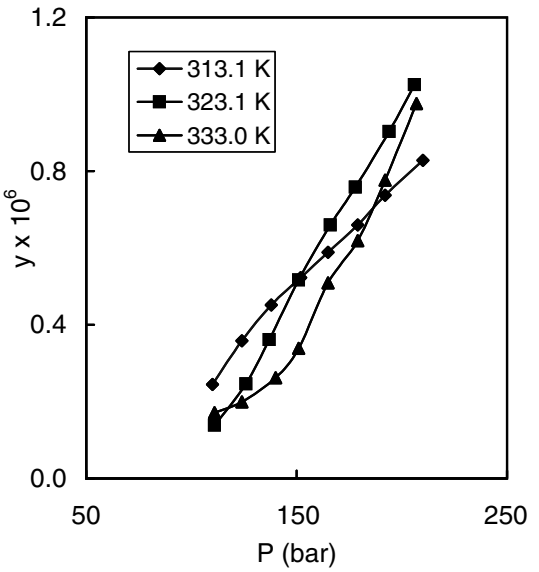


***p-tert*-Butylcalix[4]arene** ($C_{44}H_{56}O_4$; MW=648.94) **[B-73]**

T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
313.1	110	3.84	0.245
	124	5.94	0.358
	138	7.80	0.452
	152	9.39	0.523
	165	10.70	0.589
	179	12.30	0.660
	192	13.90	0.737
	210	16.00	0.828
323.1	111	1.64	0.139
	126	3.47	0.246
	137	5.50	0.361
	151	8.34	0.517
	166	11.10	0.660
	178	13.10	0.759
	194	16.00	0.903
	206	18.40	1.025
333.0	111	1.44	0.171
	124	2.13	0.199
	140	3.40	0.263
	151	4.77	0.339
	165	7.63	0.509
	179	9.70	0.619
	192	12.70	0.776
	207	16.40	0.975

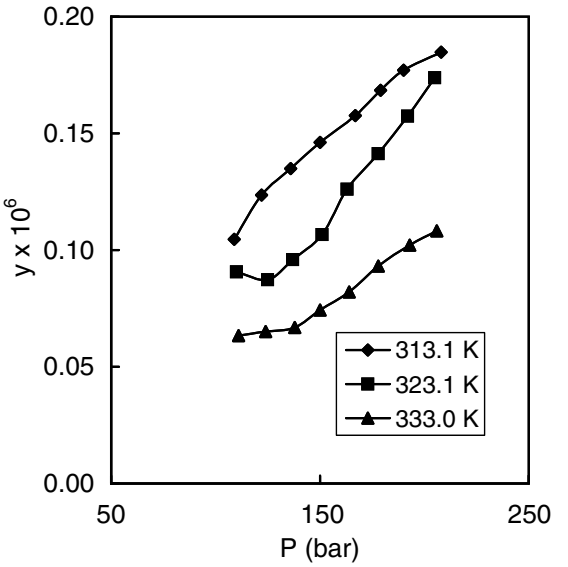
1: Calculated from M.

Source: Graham, B. F.; Lagalante, A. F.; Bruno, T. J.; Harrowfield, J. M.; Trengove, R. D. *Fluid Phase Equil.* (1998), 150-151, 829-838.



***p-tert*-Butylcalix[6]arene** ($C_{66}H_{84}O_6$; MW=973.40) **[B-74]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
313.1	109	1.64	0.105
	122	2.05	0.124
	136	2.33	0.135
	150	2.59	0.146
	167	2.90	0.158
	179	3.14	0.169
	190	3.34	0.177
	208	3.57	0.185
323.1	110	1.05	0.091
	125	1.23	0.087
	137	1.46	0.096
	151	1.72	0.107
	163	2.09	0.126
	178	2.44	0.141
	192	2.79	0.157
	205	3.12	0.174
333.0	111	0.53	0.063
	124	0.70	0.065
	138	0.85	0.067
	150	1.03	0.074
	164	1.23	0.082
	178	1.46	0.093
	193	1.67	0.102
	206	1.82	0.108

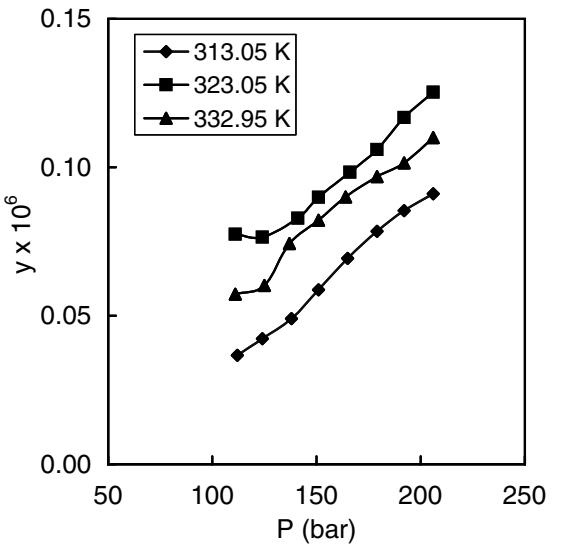


1: Calculated from M.

Source: Graham, B. F.; Lagalante, A. F.; Bruno, T. J.; Harrowfield, J. M.; Trengove, R. D. *Fluid Phase Equil.* (1998), 150-151, 829-838.

***p-tert*-Butylcalix[8]arene** ($C_{88}H_{112}O_8$; MW=1297.87) **[B-75]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
313.05	112	0.58	0.037
	124	0.70	0.042
	138	0.85	0.049
	151	1.04	0.059
	165	1.26	0.069
	179	1.46	0.078
	192	1.61	0.085
	206	1.76	0.091
323.05	111	0.92	0.078
	124	1.06	0.077
	141	1.28	0.083
	151	1.45	0.090
	166	1.63	0.098
	179	1.83	0.106
	192	2.07	0.117
	206	2.25	0.125



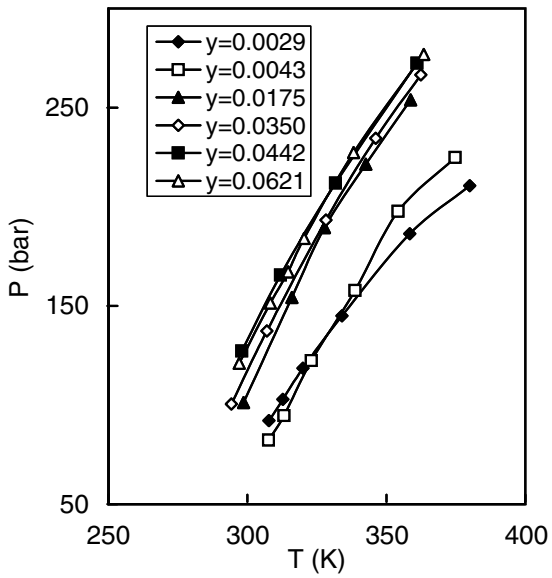
332.95	111	0.48	0.057
	125	0.66	0.060
	137	0.95	0.074
	151	1.14	0.082
	164	1.35	0.090
	179	1.52	0.097
	192	1.66	0.102
	206	1.85	0.110

1: Calculated from M.

Source: Graham, B. F.; Lagalante, A. F.; Bruno, T. J.; Harrowfield, J. M.; Trengove, R. D. *Fluid Phase Equil.* (1998), 150-151, 829-838.

Butyl 2,5-dichlorobenzoate ($C_{11}H_{12}Cl_2O_2$; MW=247.12) **[B-76]**

T (K)	P (bar)	y x 10^6
307.75	92.2	2900
312.75	102.8	2900
319.95	118.6	2900
334.05	145.0	2900
358.45	186.4	2900
379.95	210.6	2900
307.65	82.3	4300
313.15	94.6	4300
323.05	122.4	4300
338.75	157.7	4300
354.25	197.7	4300
374.75	224.9	4300
298.65	101.2	17500
315.95	154.2	17500
327.75	189.5	17500
342.55	221.4	17500
358.75	253.9	17500
294.25	100.5	35000
306.95	137.4	35000
328.25	193.3	35000
346.15	234.5	35000
362.35	266.6	35000

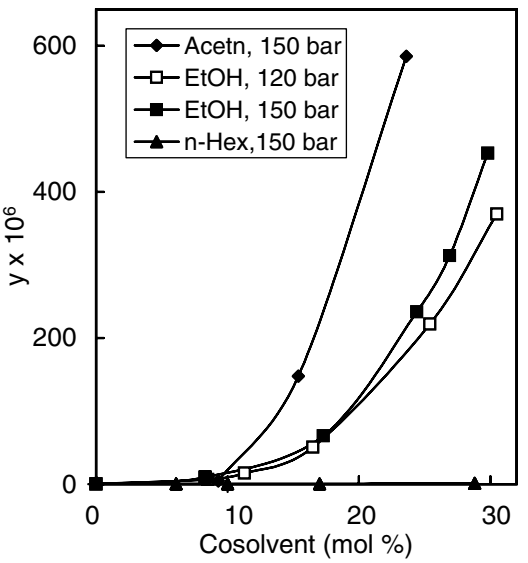


297.95	127.2	44200
311.95	165.5	44200
331.75	211.9	44200
361.05	272.4	44200
297.05	121.0	62100
308.25	151.5	62100
314.65	167.2	62100
320.35	184.1	62100
338.15	227.3	62100
363.45	276.8	62100

Synonym: 2,5-Dichlorobenzoic acid butyl ester
Source: Shen, Z.; McHugh, M. A.; Loot, K, M.: Wright, M. E. *Fluid Phase Equil.*(2004), 216(1), 1-12.

1-Butyl-3-methylimidazolium hexafluorophosphate ($C_8H_{15}N_2 \cdot F_6P$; FW=284.18) **[B-77]**

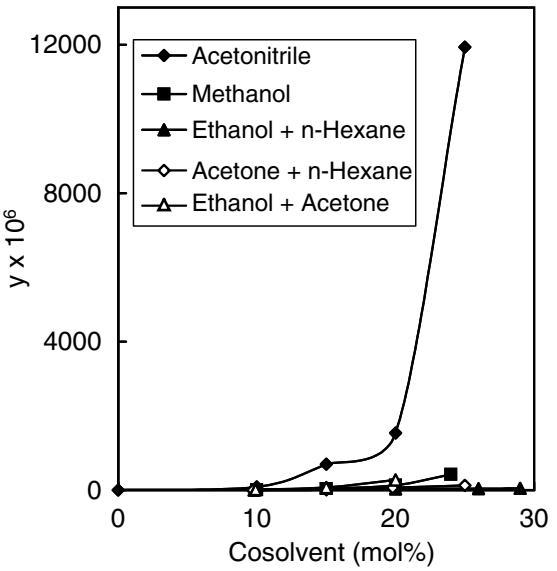
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetone	
313	150	9.3	4.5
		15.4	148.0
		23.6	586.0
		Ethanol	
313	120	0.0	0.2
		8.5	6.3
		11.3	15.0
		16.5	50.7
		25.4	219.0
		30.5	370.0
	150	0.0	0.3
		8.3	9.5
		17.3	66.2
		24.4	236.0
		26.9	313.0
		29.8	453.0
328	150	0.0	0.1
		11.5	14.4
		17.3	89.1
		24.4	245.0
		29.1	387.0
		n-Hexane	
313	150	6.1	0.44
		10.0	0.55
		17.0	0.57
		28.8	1.38



Synonym: Ionic liquid [bmim][PF_6]
Source: Wu, W.; Zhang, J.; Han, B.; Chen, J.; Liu, Z.; Jiang, T.; He, J.; Li, W. *Chem. Comm.* (2003), (12), 1412-1413.

1-Butyl-3-methylimidazolium hexafluorophosphate ($C_8H_{15}N_2 \cdot F_6P$; FW=284.18) **[B-78]**

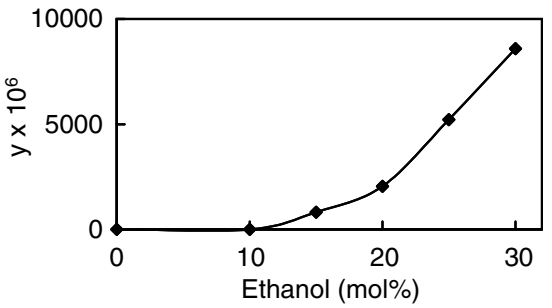
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetonitrile	
313.15	150	0.0	0.3
		10.0	90.0
		15.0	700.0
		20.0	1536.0
		25.0	11930.0
		Methanol	
313.15	150	10.0	9.5
		15.0	36.3
		20.0	129.5
		24.0	423.0
		Ethanol + n-Hexane	
313.15	150	9.8	0.2
		20.0	29.7
		26.0	38.9
		29.0	45.1
		Acetone + n-Hexane	
313.15	150	9.7	0.7
		15.0	6.4
		19.8	62.1
		25.0	123.0
		Ethanol + Acetone	
313.15	150	9.9	12.1
		15.0	72.7
		20.0	273.0



Synonym: Ionic liquid [bmim][PF_6]
Source: Wu, W.; Li, W.; Han, B.; Jiang, T.; Shen, D.; Zhang, Z.; Sun, D.; Wang, B. *J. Chem. Eng. Data* (2004), 49(6), 1597-1601.

1-Butyl-3-methylimidazolium tetrafluoroborate ($C_8H_{15}N_2 \cdot BF_4$; FW=226.02) **[B-79]**

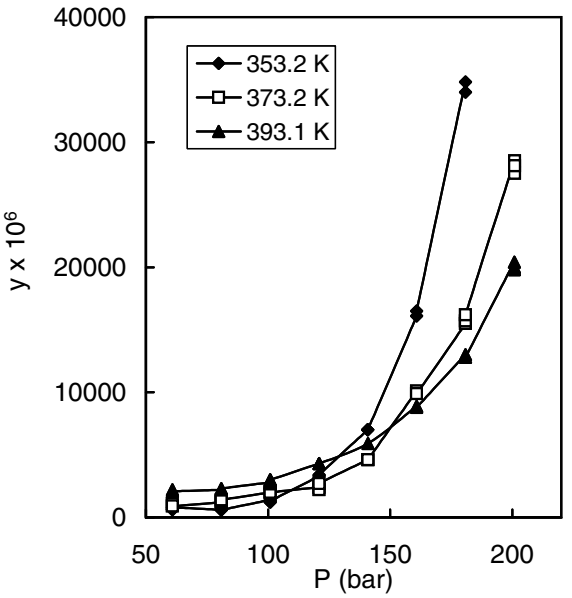
T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
313.15	150	0	0.9
		10	1.7
		15	812.0
		20	2050.0
		25	5210.0
		30	8590.0



1: Cosolvent in CO_2.
Synonym: Ionic liquid [bmim][BF_4]
Source: Wu, W.; Li, W.; Han, B.; Jiang, T.; Shen, D.; Zhang, Z.; Sun, D.; Wang, B. *J. Chem. Eng. Data* (2004), 49(6), 1597-1601.

2-*tert*-Butylphenol ($C_{10}H_{14}O$; MW=150.22) **[B-80]**

T (K)	P (bar)	y x 10^6
353.2	60.9	600
	60.9	800
	80.9	600
	80.9	600
	80.9	800
	80.9	600
	100.9	1400
	100.9	1200
	100.9	1300
	120.9	3300
	120.9	3400
	140.8	7000
	140.8	7000
	160.8	16100
	160.8	16500
	180.8	34800
	180.8	34000
373.2	60.9	1100
	60.9	900
	80.9	1200
	80.9	1300
	80.9	1400
	100.9	2000
	100.9	2000
	120.9	2400
	120.9	2200
	120.9	2700
	140.9	4600
	140.9	4600
	160.8	10100
	160.8	9900
	180.8	15500
	180.8	15700
	180.8	16200
	200.9	28500
	200.9	27500
	200.9	28100
393.1	60.9	2200
	60.9	2100
	80.9	2200
	80.9	2300
	100.9	2800
	100.9	2700
	100.9	3000
	100.9	3000
	120.9	4300
	120.9	4300

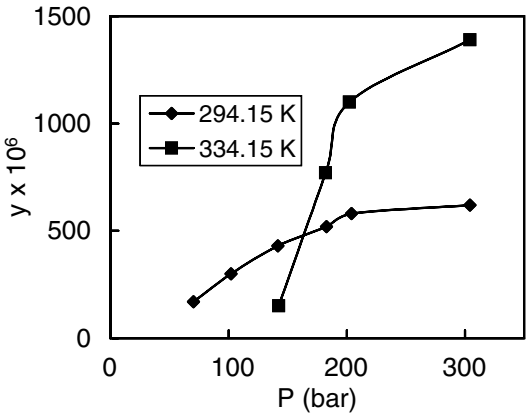


140.9	5900
160.8	8900
160.8	8800
180.8	13000
180.8	12800
200.8	20400
200.8	19800
200.8	20000

Synonym: 2-(1,1-Dimethylethyl)phenol
Source: Walther, D.; Maurer, G.
J. Chem. Eng. Data (1993), 38, 247-249.

***tert*-Butyl-salen**[1] ($C_{32}H_{48}N_2O_2$; MW=492.74) **[B-81]**

T (K)	P[2] (bar)	y[2] x 10^6
294.15	70.1	170
	102.0	300
	141.6	430
	182.8	520
	203.8	580
	304.1	620
334.15	142.4	150
	182.1	770
	202.3	1100
	304.1	1390



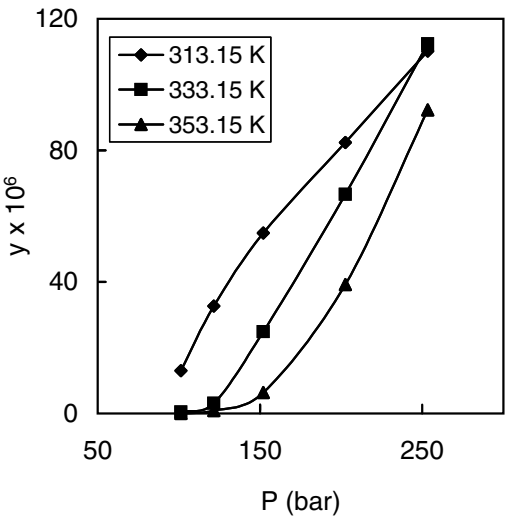
1: The name of this compound, N,N'-Bis(3,5-di-tert-butylsalicylidene) ethylenediamine, in the source was corrected to the synonym below, based on the diagram in the source article.
2: Obtained by digitizing the graph in the original article.
Synonym: *N,N*'-Bis(4,6-di-*tert*-butylsalicylidene)ethylenediamine
Source: Koh, S.; Jeon, B.; Kim, H.; Park, K.; Kim, H.
Bull. Korean Chem. Soc. (2004), 25(4), 471-474.

3 Solubility Data C

Cafestol ($C_{20}H_{28}O_3$; MW=316.43) **[C-1]**

T(K)	P(bar)	S (g/L)	y[1)] x 10^6
313.15	101.33	0.060	13.0
	121.59	0.170	32.6
	151.99	0.310	54.9
	202.65	0.500	82.4
	253.31	0.700	110.2
333.15	101.33	0.001	0.5
	121.59	0.010	3.1
	151.99	0.110	24.9
	202.65	0.350	66.7
	253.31	0.640	112.4
353.15	101.33	0.000	0.0
	121.59	0.002	0.9
	151.99	0.020	6.3
	202.65	0.170	39.2
	253.31	0.460	92.3

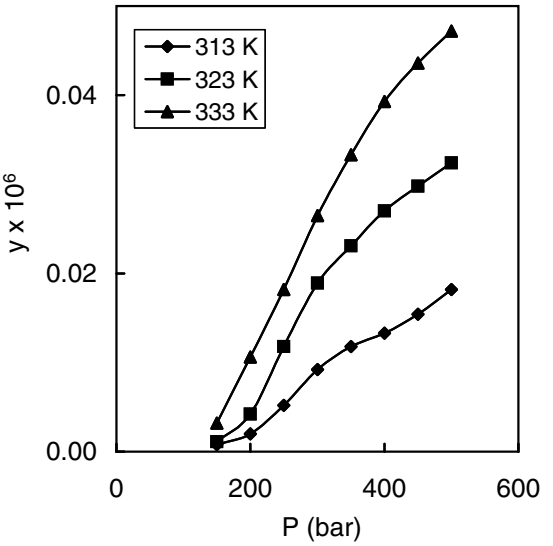
1: Calculated from S.
Synonym: Cafesterol
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



Caffeic acid ($C_9H_8O_4$; MW=180.16) **[C-2]**

T (K)	P (bar)	y x 10^6
313	150	0.0008
	200	0.0020
	250	0.0052
	300	0.0092
	350	0.0118
	400	0.0133
	450	0.0154
	500	0.0182

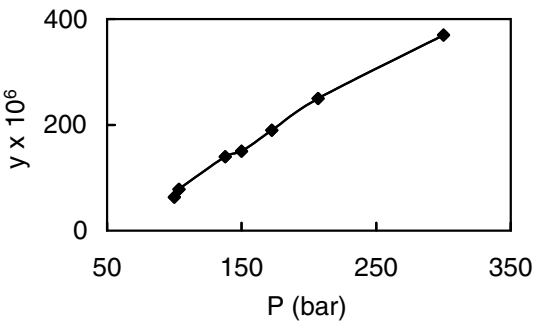
323	150	0.0011
	200	0.0042
	250	0.0118
	300	0.0189
	350	0.0231
	400	0.0270
	450	0.0298
	500	0.0324
333	150	0.0032
	200	0.0106
	250	0.0182
	300	0.0265
	350	0.0333
	400	0.0393
	450	0.0436
	500	0.0472



Synonyms: 3,4-Dihydroxycinnamic acid; 3,4-Dihydroxybenzeneacrylic acid
Source: Murga, R.; Sanz, M.T.; Beltran,S.; Cabezas, J. L. -*J. Supercrit. Fluids* (2003), 27(3), 239-245.

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-3]**

T (K)	P (bar)	M x 10^4 (mol/L)	y x 10^6
313.15	100.0	9	63
	103.4	12	78
	137.9	23	140
	150.0	26	150
	172.4	35	190
	206.8	48	250
	300.0	71	370



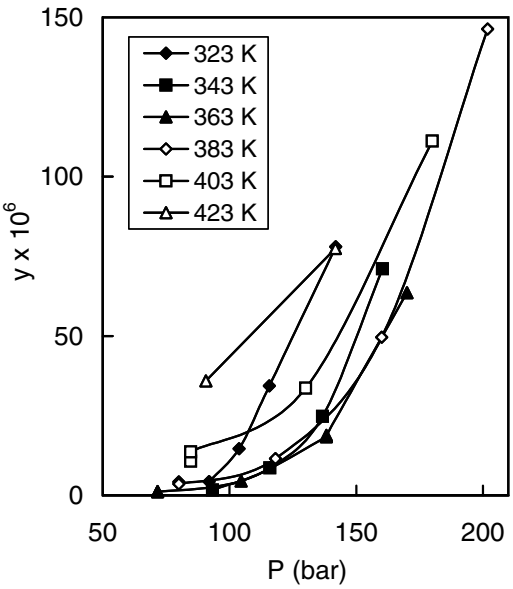
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source : Burgos-Solorzano, G. I.; Brennecke, J. F.;Stadtherr, M. A. *Fluid Phase Equil.* (2004), 220(1), 57-69.

[C-4]

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19)

T (K)	P[1] (bar)	M[2] x 10^5 (mol/L)	y[3] x 10^6
323	91.9	3.24	4.3
	103.8	14.98	14.6
	115.7	43.44	34.4
	141.9	117.59	78.0
333	61.7	0.49	1.6
	105.4	4.27	5.6
	120.2	19.18	18.9
	139.2	62.18	49.3
	172.2	186.45	123.6
343	93.3	0.81	1.6
	115.9	6.49	8.6

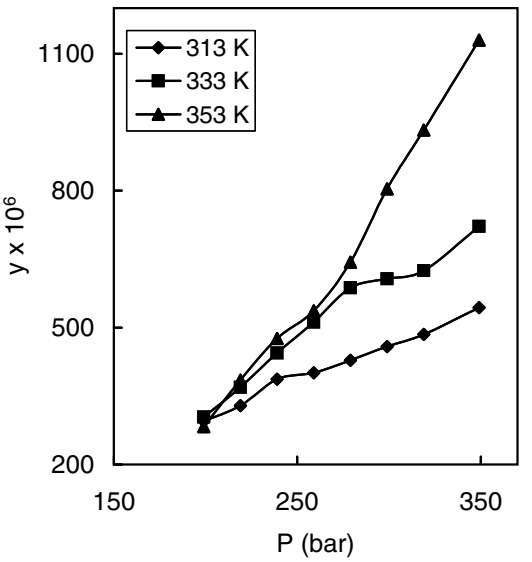
	136.7	25.03	24.8
	160.4	89.68	71.1
353	97.5	1.28	2.5
	127.2	10.03	13.3
	152.8	40.34	40.0
	185.7	140.15	111.1
363	71.6	0.32	1.2
	71.6	0.35	1.1
	104.6	2.25	4.5
	138.2	13.90	18.4
	138.2	14.21	18.8
	170.0	64.07	63.6
373	75.6	0.64	2.1
	75.6	0.66	2.2
	111.3	3.69	7.3
	148.6	23.10	30.6
	186.2	95.32	94.6
383	80.0	1.09	4.2
	80.0	1.26	3.6
	118.1	5.81	11.5
	160.0	37.30	49.6
	201.9	147.18	146.3
393	82.1	1.63	5.8
	82.1	1.77	5.4
	123.8	10.36	21.8
	123.8	10.99	20.5
	170.9	56.79	75.1
403	84.7	3.24	10.7
	84.7	4.12	13.6
	130.0	16.92	33.6
	180.0	83.93	111.2
413	87.5	6.31	20.8
	135.6	25.74	51.1
	191.1	127.70	169.2
423	90.7	10.83	35.9
	141.8	39.06	77.4
433	94.3	16.81	55.7
	147.5	59.89	119.0



1: Calculated from density and temperature by using Wagner equation of state.
2: Obtained by using log (c/c_0) values and the equation for log c_0 in the source.
3: Calculated from M.
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source: Ebeling, H.; Franck, E. U. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 862-865.

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-5]**

T (K)	P (bar)	y x 10^6
313	199	295
	219	329
	239	387
	259	401
	279	428
	299	458
	319	485
	349	544
333	199	304
	219	369
	239	444
	259	512
	279	587
	299	607
	319	625
	349	722
353	199	283
	219	385
	239	476
	259	537
	279	643
	299	804
	319	933
	349	1130



Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine

Source: Johannsen, M.; Brunner, G. *Fluid Phase Equil.*(1994), 95, 215-226.

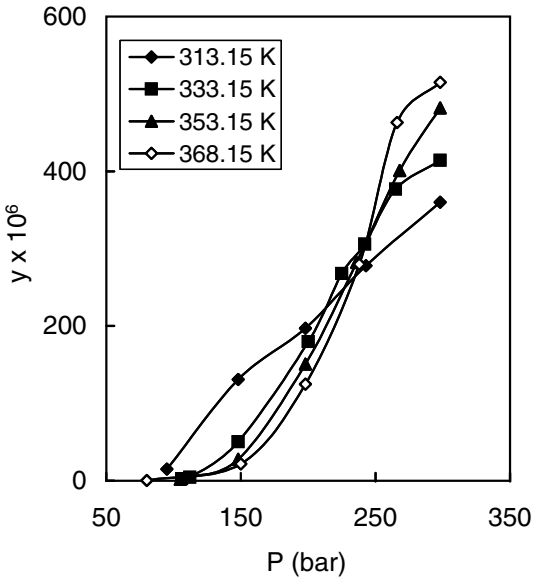
Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-6]**

T (K)	P (bar)	y x 10^6
313.15	95	15.1
	148	131.0
	198	197.0
	243	278.0
	298	360.0
333.15	106	2.7
	112	4.4
	148	50.5
	200	180.0
	225	268.0
	242	306.0
	265	377.0
	298	414.0

353.15	105	1.9
	148	27.7
	198	151.0
	236	282.0
	268	401.0
	298	482.0
368.15	80	0.5
	150	21.8
	198	125.0
	238	280.0
	266	463.0
	298	515.0

Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine

Source: Li, S.; Varadarajan, G. S.; Hartland, S. *Fluid Phase Equil.* (1991), 68, 263-280.



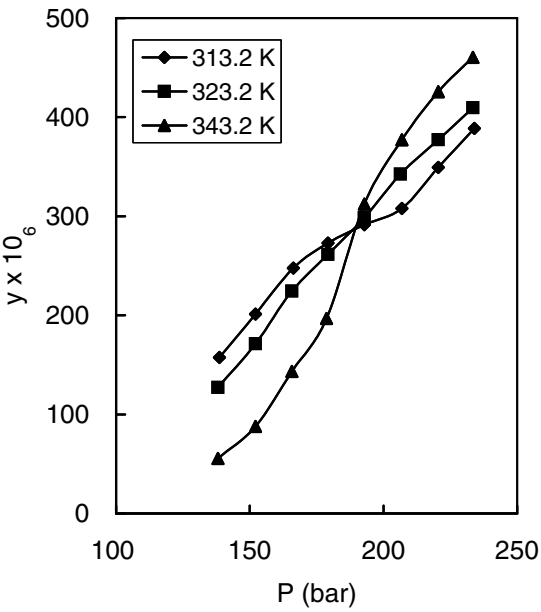
Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-7]**

T (K)	P[1] (bar)	W[1] (g/kg)	y[2] x 10^6
313.2	138.6	0.69	157
	152.2	0.89	201
	166.3	1.09	248
	179.3	1.21	273
	192.8	1.29	292
	206.9	1.36	308
	220.5	1.54	349
	234.0	1.72	389
323.2	138.1	0.56	127
	152.2	0.76	171
	165.7	0.99	224
	179.3	1.15	261
	192.8	1.32	298
	206.4	1.51	342
	220.5	1.66	377
	233.5	1.81	410
343.2	138.1	0.25	56
	152.2	0.39	88
	165.7	0.63	143
	178.7	0.87	197
	192.8	1.38	312
	206.9	1.66	377
	220.5	1.88	426
	233.5	2.03	460

1: Obtained by digitizing the graph in the original article.
2: Calculated from W.

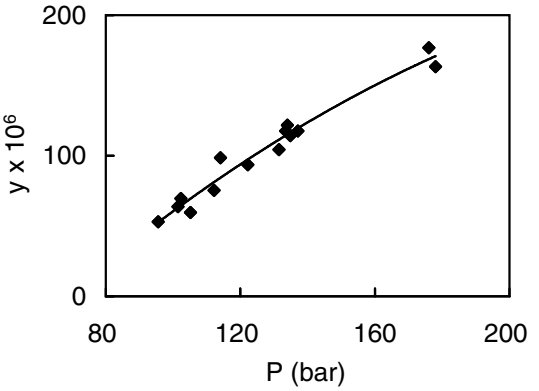
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine

Source: Saldana,M.D.A.; Mohamed, R.S.;Baer, M. G.; Mazzafera, P. *J. Agric. Food. Chem.* (1999), 47, 3804-3808.



Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-8]**

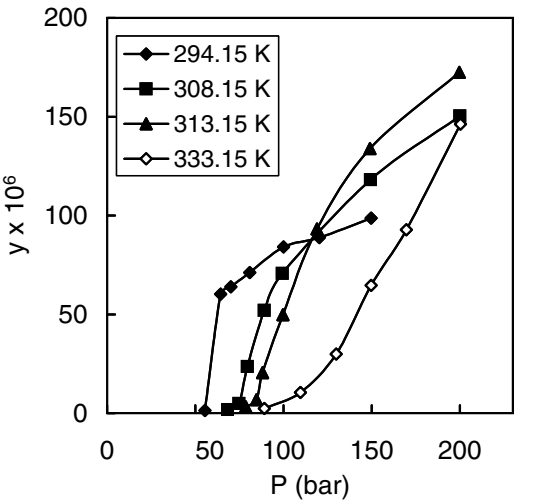
T (K)	P[1] (bar)	W[1] (g/kg CO_2)	y[2] x 10^6
323.15	95.6	0.23	53
	101.5	0.28	64
	105.1	0.26	60
	102.3	0.31	70
	112.1	0.33	75
	114.1	0.43	99
	122.2	0.41	94
	131.5	0.46	104
	133.5	0.52	118
	134.9	0.50	114
	134.0	0.54	122
	137.1	0.52	118
	176.0	0.78	177
	178.0	0.72	163



1: Obtained by digitizing the graph in the original article.
2: Calculated from W.
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source: Skerget, M.; Knez, Z. *V. Slovenskega Kemijskega Drustva* (1991), 38(3), 413-426.

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-9]**

T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
294.15	55.4	0.01	1
	64.4	0.53	60
	70.2	0.56	64
	80.8	0.62	71
	100.0	0.73	84
	120.2	0.77	89
	149.7	0.86	99
308.15	68.3	0.02	2
	74.7	0.04	5
	79.5	0.21	24
	89.1	0.45	52
	99.4	0.62	71
	149.4	1.03	118
	200.0	1.31	150
313.15	78.5	1.03	3
	84.6	1.06	7
	88.1	1.18	20
	99.7	1.43	50
	118.9	1.81	93
	149.0	1.17	134

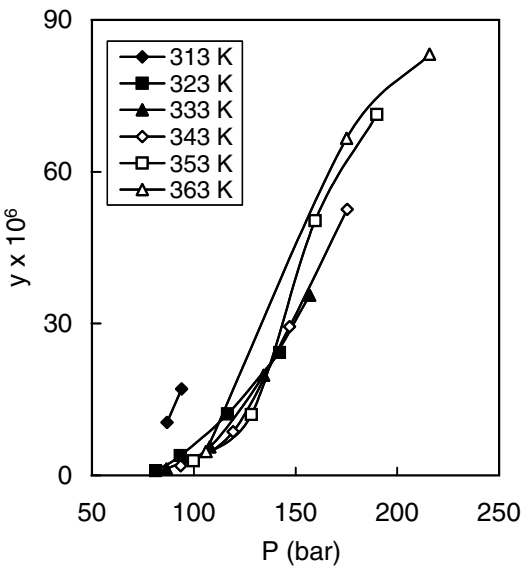


	199.7	1.50	172
333.15	89.1	0.02	2
	109.6	0.09	10
	129.8	0.26	30
	149.7	0.56	65
	169.6	0.81	93
	200.3	1.28	146

1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source: Stahl, E.; Schilz, W. *Talanta*(1979), 26, 675-679.

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-10]**

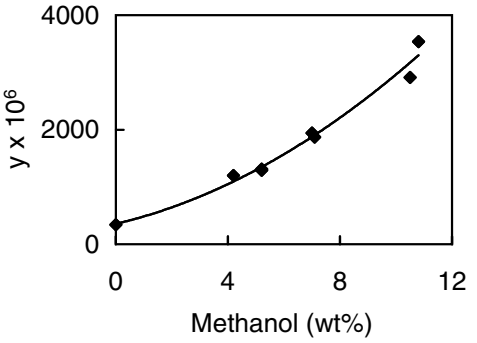
T (K)	P (bar)	y x 10^6
313	86.9	10.5
	94.1	17.1
323	81.3	0.9
	93.5	3.9
	116.6	12.2
	142.2	24.3
333	86.6	1.3
	107.9	5.6
	134.3	19.8
	157.0	35.6
343	93.6	1.9
	119.4	8.6
	147.0	29.4
	175.4	52.6
353	99.9	2.9
	128.4	12.0
	159.6	50.3
	190.0	71.3
363	106.1	4.7
	175.1	66.6
	215.9	83.2



Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source: Tzvetkova, E., Doctoral Thesis, Siegen University, Siegen, Germany, 2001.

Caffeine ($C_8H_{10}N_4O_2$; MW=194.19) **[C-11]**

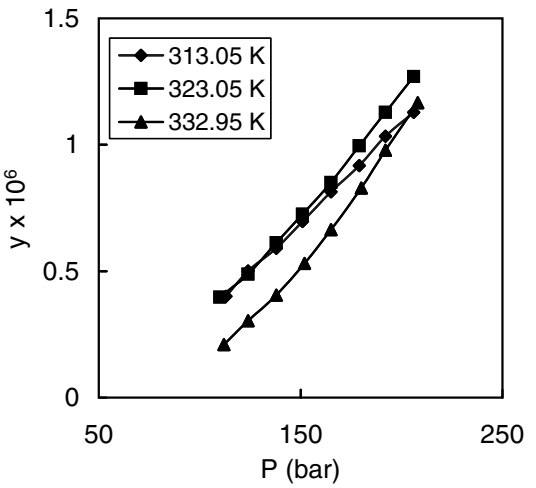
T (K)	P (bar)	Methanol[1)] (wt%)	W (g/kg solv)	y[2)] x 10^6
313	219	0.0	1.5	340
	218	4.2	5.4	1200
	218	5.2	5.8	1290
	218	5.2	5.9	1310
	218	7.0	8.8	1940
	218	7.1	8.5	1870
	218	10.5	13.4	2910
	218	10.8	16.3	3540



1: Cosolvent in CO_2 on a solute-free basis.
2: Calculated from W.
Synonyms: 1,3,7-Trimethyl-2,6-dioxopurine; 1,3,7-Trimethylxanthine
Source: Johannsen, M.; Brunner, G. *J. Chem. Eng. Data* (1995), 40(2), 431-434.

Calix[4]arene ($C_{28}H_{24}O_4$; MW=424.49) **[C-12]**

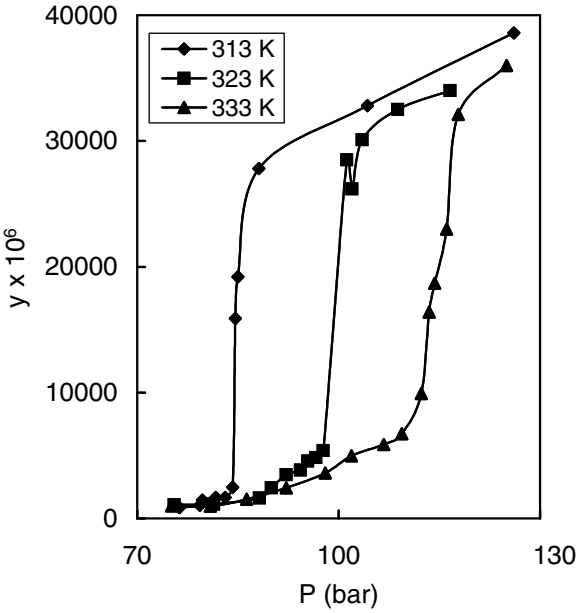
T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
313.05	113	6.38	0.401
	124	8.30	0.500
	138	10.20	0.591
	151	12.50	0.696
	165	14.80	0.814
	179	17.10	0.918
	192	19.50	1.034
	206	21.80	1.129
323.05	110	4.69	0.397
	124	6.88	0.488
	138	9.32	0.612
	151	11.70	0.725
	165	14.30	0.851
	179	17.20	0.996
	192	20.00	1.129
	206	22.80	1.270
333.95	112	1.81	0.210
	124	3.32	0.304
	138	5.15	0.405
	152	7.47	0.530
	165	9.97	0.665
	180	13.00	0.829
	192	16.00	0.978
	208	19.60	1.166



1: Calculated from M.
Synonym: Calix[4]arene-25,26,27,28-tetrol
Source: Graham, B. F.; Lagalante, A. F.; Bruno, T. J.; Harrowfield, J. M.; Trengove, R. D. *Fluid Phase Equil.* (1998), 150-151 829-838.

Camphor ($C_{10}H_{16}O$; MW=152.23) **[C-13]**

T (K)	P (bar)	y x 10^6
313	76.3	863
	79.3	1040
	79.7	1460
	81.7	1660
	83.1	1670
	84.2	2470
	84.6	15900
	85.0	19200
	88.1	27800
	104.3	32800
	126.1	38600
323	75.5	1090
	81.4	1140
	88.2	1630
	90.0	2420
	92.2	3470
	94.3	3840
	95.4	4560
	96.6	4840
	97.7	5400
	101.2	28500
	102.0	26200
	103.5	30100
	108.8	32500
	116.6	34000
333	75.1	990
	80.9	970
	86.3	1520
	92.2	2430
	98.0	3600
	101.9	4970
	106.7	5870
	109.4	6730
	112.3	9930
	113.5	16400
	114.3	18700
	116.1	23000
	117.8	32100
	125.0	36000

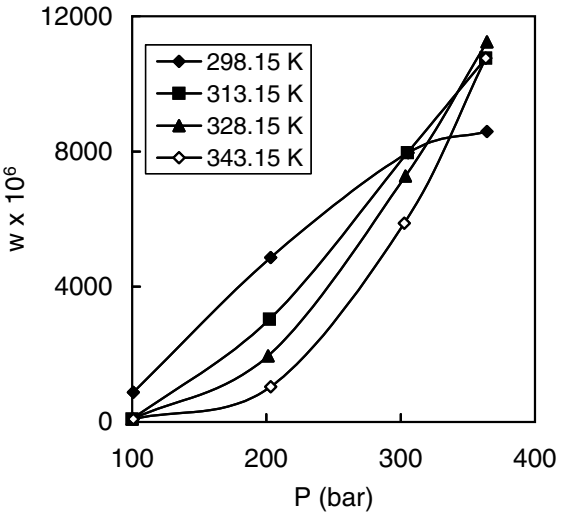


Synonyms: 2-Bornanone; 1,7,7-Trimethylbicyclo [2,2,1]heptan-2-one

Source: Akgun, M.; Akgun, N. A.; Dincer, S. *J. Supercrit. Fluids* (1999), 15(2), 117-125.

Canola oil[1)] **[C-14]**

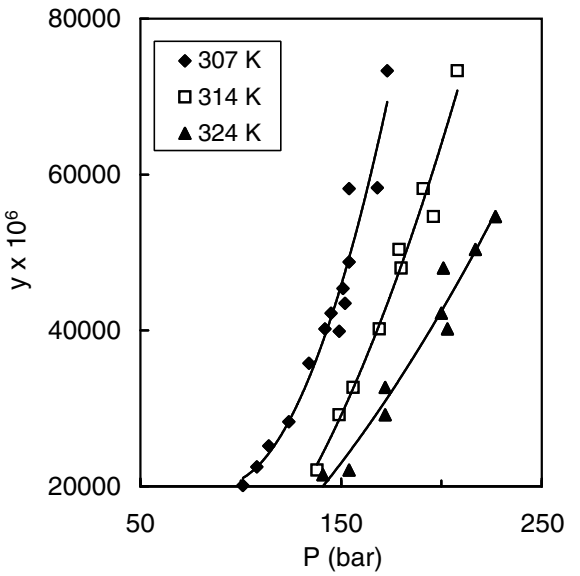
T (K)	P[2)] (bar)	W[2)] (g/kg CO_2)	w[3)] x 10^6
298.15	101	0.88	880
	203	4.88	4860
	305	8.02	7960
	364	8.66	8590
313.15	100	0.09	90
	202	3.05	3040
	305	8.02	7960
	363	10.88	10760
328.15	100	0.09	90
	201	1.95	1950
	304	7.32	7270
	364	11.37	11240
343.15	101	0.09	90
	203	1.04	1040
	303	5.91	5880
	363	10.88	10760



1: One type of rapeseed oil extracted from a cultivar of *Brassica napus* that grows in Canada.
2: Obtained by digitizing the graph in the original article.
3: Calculated from W.
Source: Fattori, M.; Bulley, N. R.; Meisen, A. *J. Am. Oil Chem. Soc.* (1988), 65(6), 968-974.

6-Caprolactam ($C_{10}H_{19}NO$; MW=169.27) **[C-15]**

T (K)	P (bar)	y x 10^6
307	101	20100
	108	22500
	114	25200
	124	28300
	134	35800
	142	40200
	145	42200
	149	39900
	151	45400
	152	43500
	154	48800
	154	58200
	168	58300
	173	73300
314	138	22100
	149	29200
	156	32700
	169	40200
	179	50400
	180	48000
	191	58200

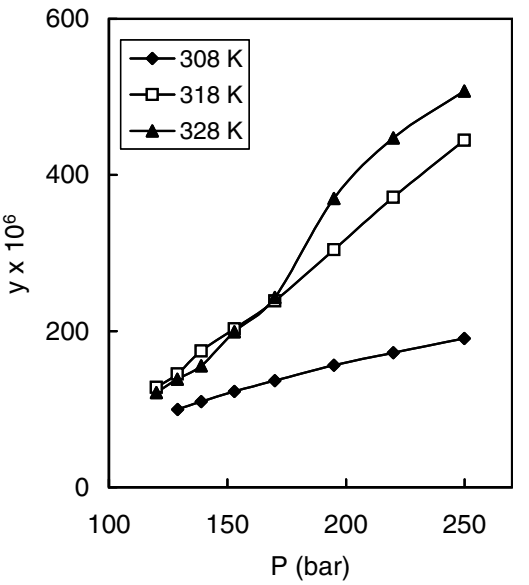


	196	54600
	208	73300
324	141	21500
	154	22100
	172	29200
	172	32700
	200	42200
	201	48000
	203	40200
	217	50400
	227	54600

Source : Laitinen, A.; Jaentti, M. *J. Chem. Eng. Data* (1996), 41(6), 1418-1420.

Capsaicin ($C_{18}H_{27}NO_3$; MW=305.41) **[C-16]**

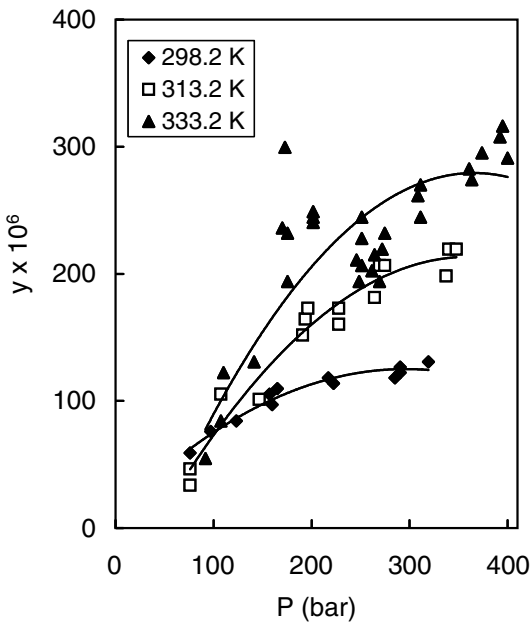
T (K)	P (bar)	M (mol/m^3)	y[1)] x 10^6
308	129.0	1.78	100
	138.9	2.00	110
	152.9	2.29	123
	170.0	2.61	137
	194.9	3.07	156
	219.9	3.46	172
	249.9	3.91	190
318	120.0	1.93	128
	128.9	2.29	145
	138.9	2.86	174
	152.9	3.46	203
	170.0	4.22	239
	194.9	5.60	304
	219.9	7.05	372
	249.9	8.68	444
328	120.0	1.41	121
	128.9	1.80	138
	138.9	2.19	156
	152.9	3.02	199
	170.0	3.91	243
	194.9	6.31	370
	219.9	7.96	448
	249.9	9.38	508



1: Calculated from M.
Synonym: (*E*)-8-Methyl-*N*-vanillyl-6-nonenamide
Source: Hansen, B. N. ; Harvey, A. H. ; Coelho, J. A. P. ; Palavra, A. M. F. ; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1054-1058.

Capsaicin ($C_{18}H_{27}NO_3$; MW=305.41) **[C-17]**

T (K)	P[1] (bar)	y[1] x 10_6
298.2	76	59
	97	76
	123	84
	157	105
	160	97
	165	110
	217	118
	222	114
	285	118
	290	122
	290	127
	319	131
313.2	76	34
	76	46
	107	105
	147	101
	191	152
	194	164
	196	173
	228	160
	228	173
	264	181
	269	207
	275	207
	337	198
	340	219
	348	219
333.2	92	55
	107	84
	110	122
	141	131
	170	236
	173	299
	175	194
	175	232
	201	240
	201	245
	201	249
	246	211
	249	194
	251	207
	251	228
	251	245
	262	202
	264	215
	269	194
	272	219
	275	232
	309	261

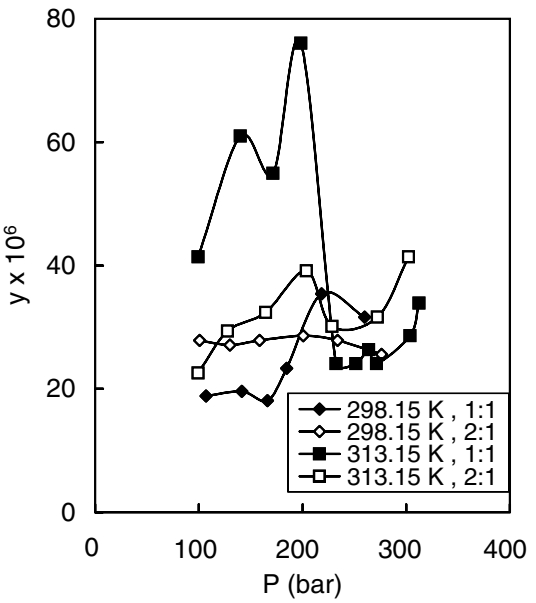


311	245
311	270
361	283
363	274
374	295
392	308
395	316
400	291

1: Obtained by digitizing the graph in the original article.
Synonym: (*E*)-8-Methyl-*N*-vanillyl-6-nonenamide
Source: Knez, Z.; Steiner, R. *J. Supercrit. Fluids* (1992), 5(4), 251-255.

Capsaicin ($C_{18}H_{27}NO_3$; MW=305.41) **[C-18]**

T (K)	P[1] (bar)	Mass ratio[2] (β-car/cap)	$y^{1,3}$ x 10^6
298.15	107	1:1	18.8
	142	1:1	19.6
	166	1:1	18.1
	185	1:1	23.3
	218	1:1	35.4
	260	1:1	31.6
	101	2:1	27.8
	130	2:1	27.1
	158	2:1	27.8
	201	2:1	28.6
	234	2:1	27.8
	276	2:1	25.6
313.15	99	1:1	41.4
	140	1:1	61.0
	172	1:1	54.9
	198	1:1	76.0
	232	1:1	24.1
	252	1:1	24.1
	264	1:1	26.3
	272	1:1	24.1
	304	1:1	28.6
	312	1:1	33.9
	99	2:1	22.6
	128	2:1	29.4
	165	2:1	32.4
	204	2:1	39.1
	228	2:1	30.1
	272	2:1	31.6
	302	2:1	41.4

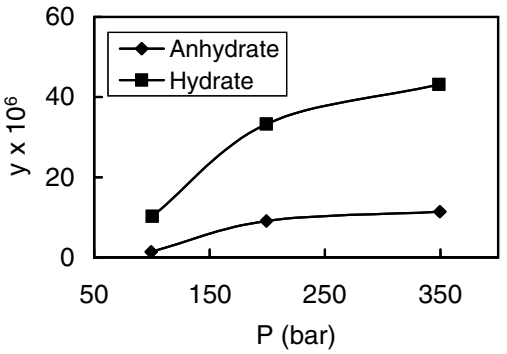


1: Obtained by digitizing the graph in the original article.
2. The mass ratio of β-carotene and capsaicin in the feed.
3: Solubility of capsaicin was measured from the binary mixture of β-carotene and capsaicin.
Synonym: (E)-8-Methyl-*N*-vanillyl-6-nonenamide
Source : Skerget, M.; Knez, Z. *J. Agric. Food Chem.* (1997), 45(6), 2066-2069.

Carbamazepine ($C_{15}H_{12}N_2O$; MW=236.27) **[C-19]**

T (K)	P[1)] (bar)	y[1)] x 10^6
Anhydrate		
313.15	100	1.4
	199	9.0
	350	11.4
Hydrate ($C_{15}H_{12}N_2O{\cdot}2H_2O$)		
313.15	100	10.2
	199	33.3
	3494	3.2

1:Obtained by digitizing the graph in the original article.

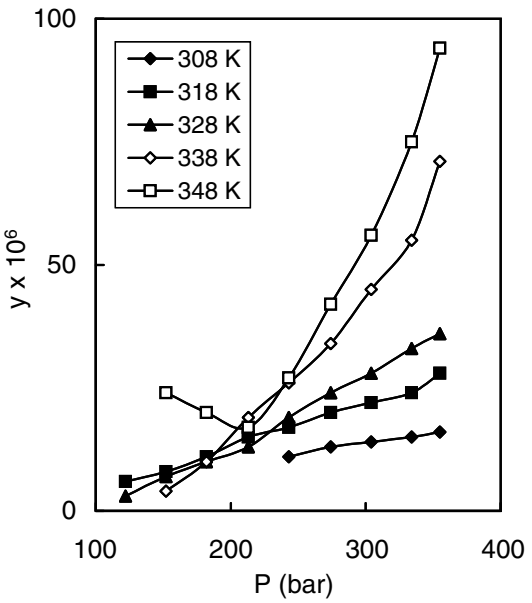


Synonym: 5*H*-Dibenz[*b,f*]azepine-5-carboxamide

Source: Bettini, R.; Bertolini, G.; Frigo, E.; Rossi, A.; Casini, I.; Pasquali, I.; Giordano, F. *J. Therm. Anal. Cal.* (2004), 77(2), 625-638.

Carbamazepine ($C_{15}H_{12}N_2O$; MW=236.27) **[C-20]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	243	0.05	11
	274	0.06	13
	304	0.07	14
	334	0.07	15
	355	0.08	16
318	122	0.02	6
	152	0.03	8
	182	0.05	11
	213	0.07	15
	243	0.08	17
	274	0.09	20
	304	0.11	22
	334	0.12	24
	355	0.14	28
328	122	0.01	3
	152	0.02	7
	182	0.04	10
	213	0.05	13
	243	0.08	19
	274	0.11	24
	304	0.13	28
	334	0.16	33
	355	0.17	36
338	152	0.01	4
	182	0.03	10
	213	0.07	19
	243	0.10	26
	274	0.14	34
	304	0.20	45

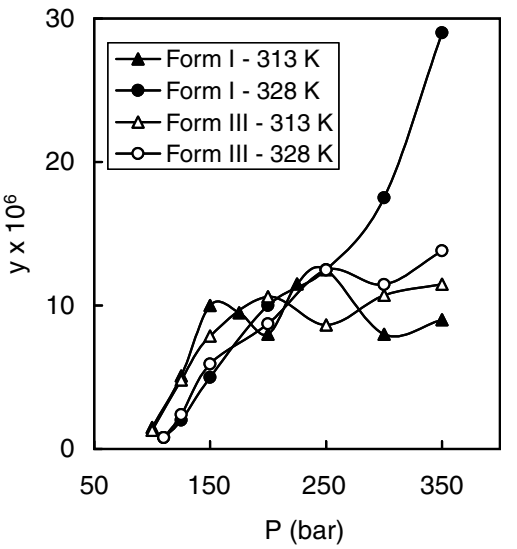


	334	0.25	55
	355	0.32	71
348	152	0.06	24
	182	0.06	20
	213	0.06	17
	243	0.10	27
	274	0.17	42
	304	0.23	56
	334	0.32	75
	355	0.41	94

Synonym: 5*H*-Dibenz[*b,f*]azepine-5-carboxamide
Source: Yamini, Y. ; Hassan, J. ; Haghgo, S. *J. Chem. Eng. Data* (2001), 46(2), 451-455.

Carbamazepine polymorph I (1) + polymorph III (2) Mixture **[C-21]**
($C_{15}H_{12}N_2O$; MW=236.2)

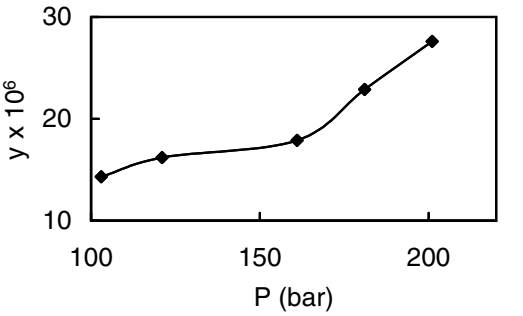
T (K)	P (bar)	$y_1^{1)} \times 10^6$	$y_2^{1)} \times 10^6$
313.15	100	1.5	1.3
	125	5.1	4.8
	150	10.0	7.9
	175	9.5	N/A
	200	8.0	10.6
	225	11.5	N/A
	250	12.5	8.6
	300	8.0	10.7
	350	9.0	11.5
328.15	110	0.8	0.8
	125	2.0	2.4
	150	5.0	5.9
	200	10.0	8.7
	250	12.5	12.5
	300	17.5	11.5
	350	29.0	13.8



1: Obtained by digitizing the graph in the original article.
Synonym: 5*H*-Dibenz[*b,f*]azepine-5-carboxamide
Source: Bettini, R.; Bonassi, L.; Castoro, V.; Rossi, A.; Zema, L.; Gazzaniga, A.; Giordano, F. *Europ. J. Pharm. Sci.* (2001), 13(3), 281-286.

Carbazole ($C_{12}H_9N$; MW=167.21) **[C-22]**

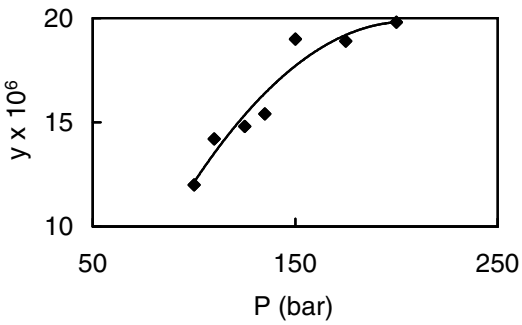
T (K)	P (bar)	y x 10^6
308.2	103	14.3
	121	16.2
	161	17.9
	181	22.9
	201	27.6



Synonyms: 9-Azafluorene; Dibenzopyrrole
Source: Goodarznia, I.; Esmaeilzadeh, F. *J. Chem. Eng. Data* (2002), 47(2), 333-338.

Carbazole ($C_{12}H_9N$; MW=167.21) **[C-23]**

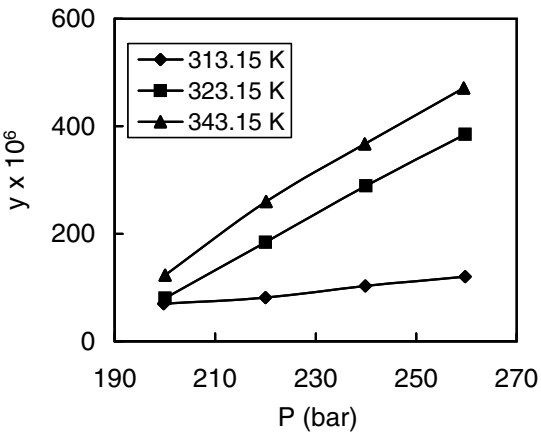
T (K)	P (bar)	y x 10^6
313.1	100	12.0
	110	14.2
	125	14.8
	135	15.4
	150	19.0
	175	18.9
	200	19.8



Synonyms: 9-Azafluorene; Dibenzopyrrole
Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.

***N*-Carbobenzoxy aspartic acid** ($C_{12}H_{13}NO_6$; MW=267.24) **[C-24]**

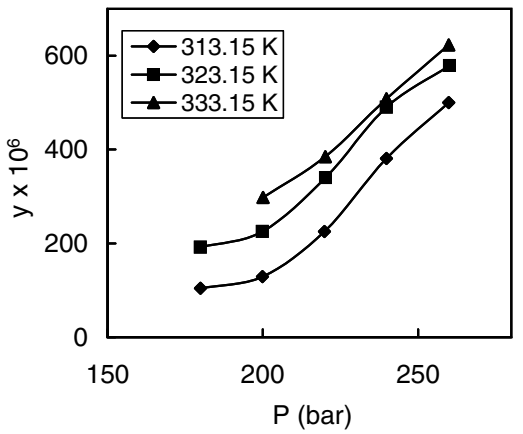
T (K)	P[1)] (bar)	y[1)] x 10^6
313.15	200	70
	220	81
	240	103
	260	120
323.15	200	80
	220	184
	240	289
	260	385
343.15	200	123
	220	260
	240	367
	259	471



1: Obtained by digitizing the graph in the original article.
Synonym: *N*-Benzyloxycarbonyl-DL-aspartic acid
Source: Vedaraman, N.; Brunner, G.; Srinivasa Kannan, C.; Ramabrahmam, B. V.; Rao, P. G. *J. Supercrit. Fluids* (2004), 30(2), 119-125.

***N*-Carbobenzoxyproline** ($C_{13}H_{15}NO_4$; MW=249.26) **[C-25]**

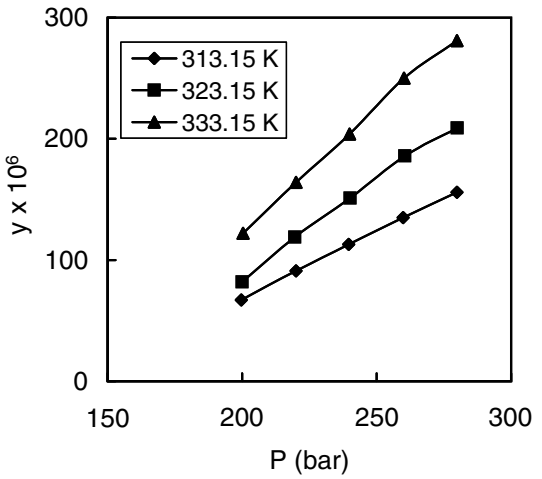
T (K)	P[1] (bar)	y[1] x 10^6
313.15	180	104
	200	129
	220	225
	240	381
	260	500
323.15	180	192
	200	225
	220	340
	240	490
	260	579
333.15	200	298
	220	385
	240	508
	260	623



1: Obtained by digitizing the graph in the original article.
Synonyms: *N*-Benzyloxycarbonyl-DL-proline
Source: Vedaraman, N.; Brunner, G.; Srinivasa Kannan, C.; Ramabrahmam, B. V.; Rao, P. G. *J. Supercrit. Fluids* (2004), 30(2), 119-125.

***N*-Carbobenzoxyvaline** ($C_{13}H_{17}NO_4$; MW=251.28) **[C-26]**

T (K)	P[1] (bar)	y[1] x 10^6
313.15	200	67
	220	91
	240	113
	260	135
	280	156
323.15	200	82
	220	119
	240	151
	260	186
	280	209
333.15	200	122
	220	164
	240	204
	260	250
	280	281



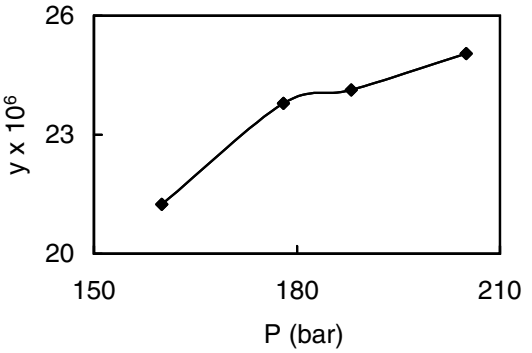
1: Obtained by digitizing the graph in the original article.
Synonym: *N*-Benzyloxycarbonyl-DL-valine
Source: Vedaraman, N.; Brunner, G.; Srinivasa Kannan, C.; Ramabrahmam, B. V.; Rao, P. G. *J. Supercrit. Fluids* (2004), 30(2), 119-125.

Carbonyl-π-cyclopentadienyl(triphenylphosphine)cobalt **[C-27]**

($C_{24}H_{20}CoOP$; FW=413.31)

T (K)	P (bar)	S (g/L CO_2)	y[1)] x 10^6
313.15	160	0.159	21.2
	178	0.183	23.8
	188	0.188	24.1
	205	0.199	25.0

1: Calculated from S.
Synonym:Carbonyl(η^5-cyclopentadienyl) (triphenylphosphine)cobalt
Source: Montilla, F.; Galindo, A.; Rosa, V.; Aviles, T. *Dalton Trans.* (2004), (16), 2588-2592.

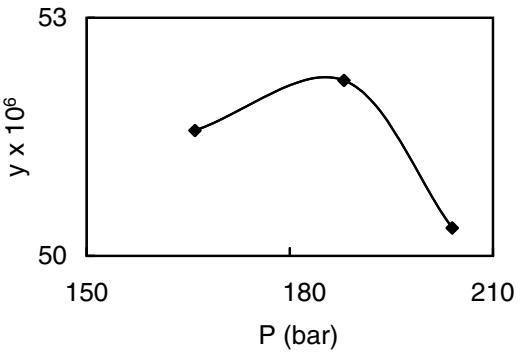


Carbonyl-π-cyclopentadienyl(tris(4-trimethylsilylphenyl)phosphine)cobalt **[C-28]**

($C_{33}H_{45}CoOPSi_3$; FW=630.87)

T (K)	P (bar)	S (g/L CO_2)	y[1)] x 10^6
313.15	166	0.595	51.6
	188	0.621	52.2
	204	0.610	50.4

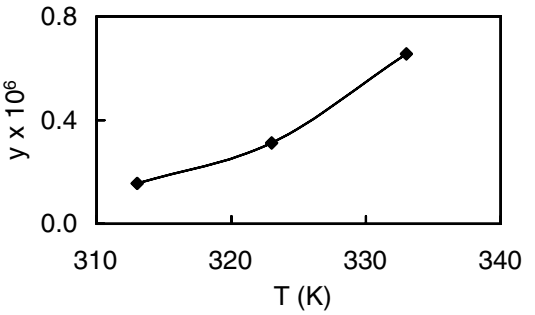
1: Calculated from S.
Synonym: Carbonyl(η^5-cyclopentadienyl) [tris(4-trimethylsilylphenyl)phosphine] cobalt
Source: Montilla, F.; Galindo, A.; Rosa, V.; Aviles, T. *Dalton Trans.* (2004), (16), 2588-2592.



β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-29]**

T (K)	P (bar)	W (mg/kg)	y[1)] x 10^6
313	300	1.9	0.16
323	300	3.8	0.31
333	300	8.0	0.66

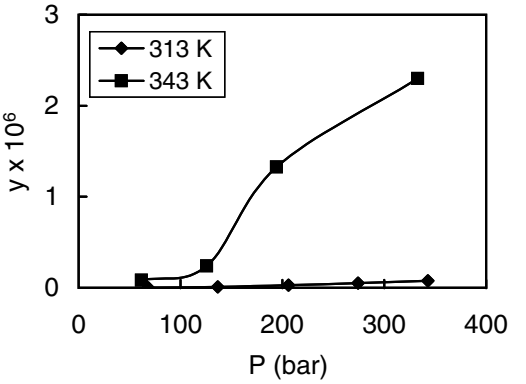
1: Calculated from W.
Synonyms: β,β -Carotene; C. I. Food Orange 5
Source: Cocero, M. J.; Gonzalez, S.; Perez, S.; Alonso, E. *J. Supercrit. Fluids* (2000), 19(1), 39-44.



β-Carotene ($C_{40}H_{56}$; Mw=536.87) **[C-30]**

T(K)	P(bar)	M x 10^6 (mol/m^3)	$y^{1)}$ x 10^6
313.15	68.3	6	0.0013
	136.7	140	0.0081
	205.9	572	0.0297
	274.4	1050	0.0515
	342.9	1600	0.0755
343.15	61.8	229	0.0825
	125.8	2090	0.2411
	194.2	19600	1.3279
	332.9	42600	2.2982

1: Calculated from M.

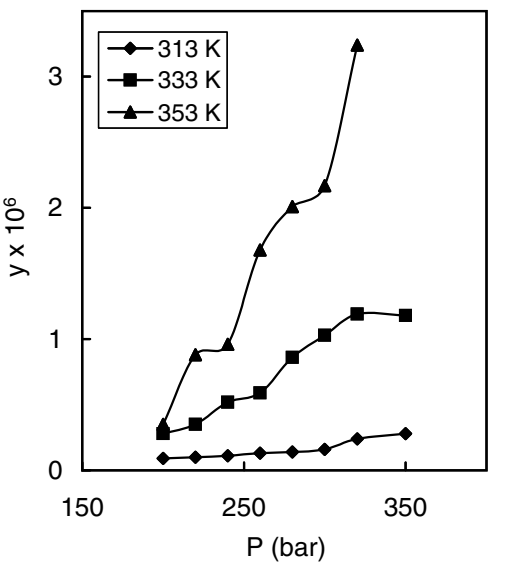


Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Hansen, B. N.; Harvey, A. H.; Coelho, J. A. P.; Palavra, A. M. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1054-1058.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-31]**

T (K)	P (bar)	$W^{1)}$ x10^2 (g/kg)	y x 10^6
313	200	0.11	0.09
	220	0.12	0.10
	240	0.13	0.11
	260	0.16	0.13
	280	0.17	0.14
	300	0.19	0.16
	320	0.29	0.24
	350	0.34	0.28
333	200	0.34	0.28
	220	0.43	0.35
	240	0.64	0.52
	260	0.72	0.59
	280	1.05	0.86
	300	1.26	1.03
	320	1.46	1.19
	350	1.44	1.18
353	200	0.42	0.35
	220	1.07	0.88
	240	1.17	0.96
	260	2.05	1.68
	280	2.45	2.01
	300	2.64	2.17
	320	3.95	3.24

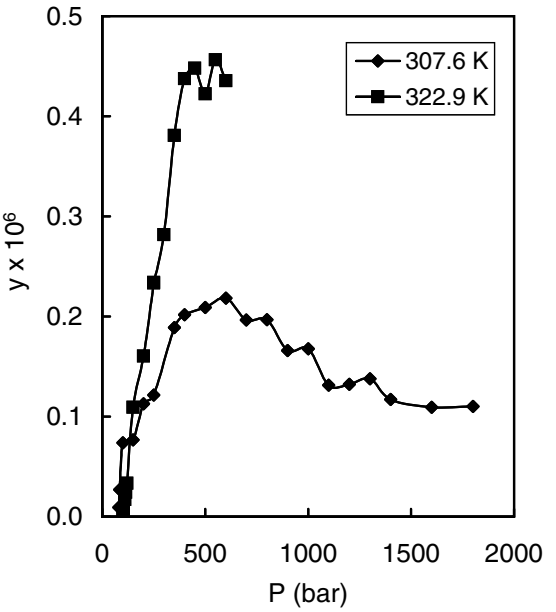
1: The order of magnitude 10^2 is missing in the source table, and thus was estimated based on Figure 8 in the source.



Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Johannsen, M. ; Brunner, G. *J. Chem. Eng. Data* (1997), 42(1), 106-111.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-32]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
307.6	80	0.11	0.009
	85	0.39	0.027
	100	1.21	0.074
	150	1.43	0.077
	200	2.23	0.113
	250	2.50	0.122
	350	4.10	0.189
	400	4.47	0.202
	500	4.79	0.209
	600	5.14	0.218
	700	4.73	0.197
	800	4.83	0.197
	900	4.14	0.166
	1000	4.25	0.168
	1100	3.37	0.131
	1200	3.44	0.132
	1300	3.62	0.138
	1400	3.11	0.117
	1600	2.96	0.109
	1800	3.03	0.110
322.9	102	0.06	0.006
	110	0.20	0.017
	115	0.31	0.024
	120	0.45	0.033
	150	1.75	0.109
	200	2.87	0.160
	250	4.44	0.233
	250	4.45	0.234
	300	5.59	0.282
	350	7.80	0.381
	400	9.20	0.437
	450	9.63	0.448
	500	9.26	0.423
	550	10.17	0.456
	600	9.85	0.435



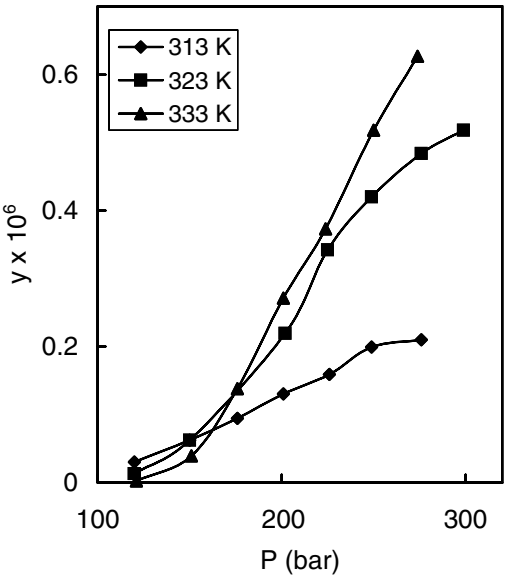
1: Calculated from S.

Synonyms: β,β-Carotene; C. I. Food Orange 5

Source: Kraska, T.; Leonhard, K. O.; Tuma, D.; Schneider, G. M. J. Supercrit. Fluids (2002), 23(3), 209-224.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-33]**

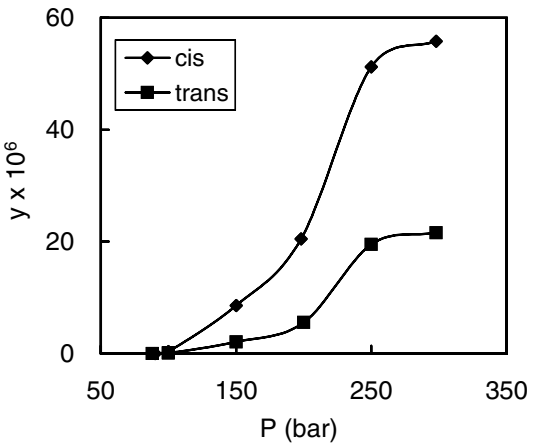
T (K)	P (bar)	y x 10^6
313	120	0.030
	150	0.062
	176	0.094
	201	0.130
	226	0.159
	249	0.199
	276	0.210
323	120	0.013
	150	0.062
	202	0.219
	225	0.342
	249	0.420
	276	0.484
	299	0.518
333	121	0.002
	151	0.039
	176	0.138
	201	0.271
	224	0.373
	250	0.518
	274	0.627



Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Mendes, R. L.; Nobre, B. P.; Coelho, J. P.; Palavra, A. F. *J. Supercrit. Fluids* (1999), 16(2), 99-106.

β-Carotene[1)] ($C_{40}H_{56}$; MW=536.87) **[C-34]**

T (K)	P[2)] (bar)	S[2)] (g/L)	y[3)] x 10^6
		cis- β*-carotene*	
313.1	90	0.0001	0.02
	100	0.0029	0.38
	150	0.0820	8.59
	198	0.2100	20.50
	250	0.5500	51.20
	298	0.6200	55.80
		trans-β*-carotene*	
	88	0.0000	0.00
	100	0.0008	0.10
	150	0.0200	2.09
	200	0.0570	5.55
	250	0.2100	19.50
	298	0.2400	21.60



1: Solubility was measured from a natural mixture of *cis-*β-carotene and *trans-*β-carotene that were extracted from microalga *Dunaliella salina*.
2: Obtained by digitizing the graph in the original article.
3: Calculated from S.
Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Mendes, R. L.; Nobre, B. P.; Cardoso, M. T.; Pereira, A. P.; Palavra, A. F. *Inorg. Chim. Acta* (2003), 356, 328-334.

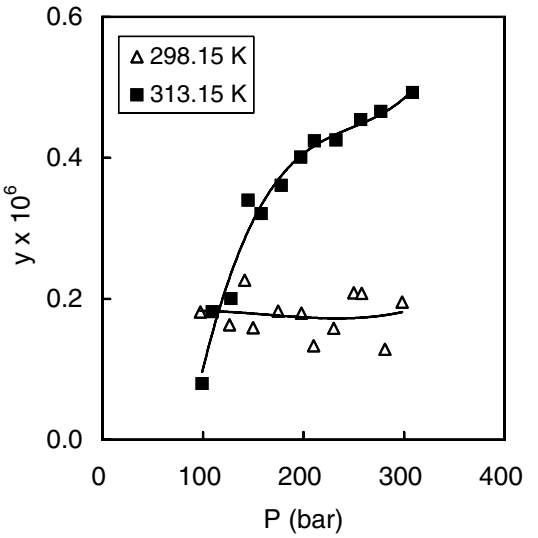
β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-35]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
298.15	97.5	0.0018	0.181
	126.5	0.0017	0.163
	141.5	0.0024	0.226
	150.0	0.0017	0.159
	174.7	0.0020	0.183
	198.0	0.0020	0.179
	210.0	0.0015	0.133
	230.0	0.0018	0.158
	250.0	0.0024	0.208
	257.8	0.0024	0.208
	281.0	0.0015	0.128
	298.0	0.0023	0.195
313.15	99.3	0.0006	0.080
	109.3	0.0015	0.182
	128.0	0.0018	0.200
	145.0	0.0032	0.340
	158.0	0.0031	0.321
	178.0	0.0036	0.361
	197.5	0.0041	0.401
	211.0	0.0044	0.424
	232.5	0.0045	0.425
	257.0	0.0049	0.454
	277.0	0.0051	0.466
	308.5	0.0055	0.493

1: Calculated from S.

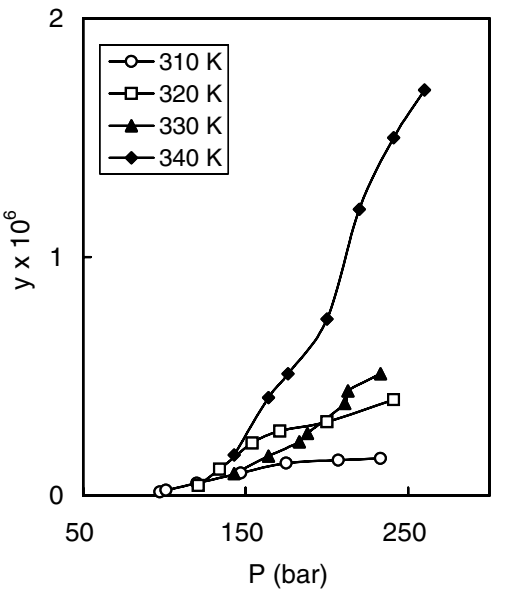
Synonyms: β,β-Carotene; C. I. Food Orange 5

Source: Skerget, M.; Knez, Z.; Habulin, M. *Fluid Phase Equil.* (1995), 109(1), 131-138.



β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-36]**

T (K)	P (bar)	y x 10^6
310	97	0.015
	101	0.022
	120	0.051
	147	0.094
	175	0.135
	207	0.148
	233	0.155
320	121	0.041
	134	0.110
	154	0.220
	171	0.270
	200	0.309
	241	0.401
330	143	0.091
	164	0.165
	183	0.224
	188	0.260
	211	0.385

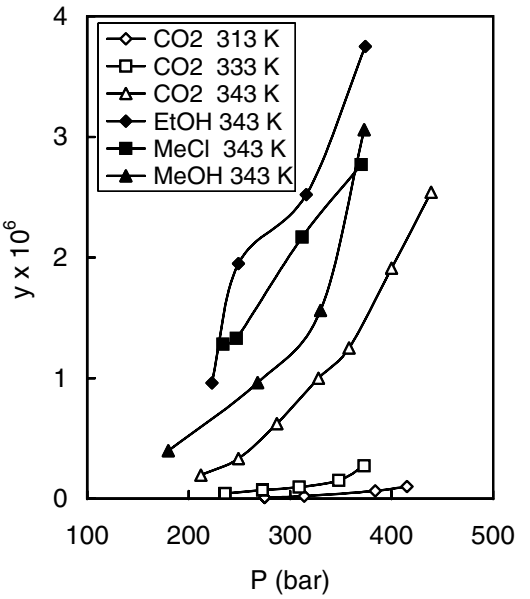


	213	0.438
	233	0.510
340	143	0.170
	164	0.410
	176	0.510
	200	0.740
	220	1.20
	241	1.50
	260	1.70

Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: S ubra, P .; Castellani, S .; Ksibi, H.; Garrabos, Y. *Fluid Phase Equil.* (1997),131(1-2), 269-286.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-37]**

T (K)	P (bar)	Cosolvent (wt%)	y x 10^6
313.15	275	0	0.009
	314	0	0.022
	384	0	0.066
	415	0	0.102
333.15	236	0	0.043
	273	0	0.072
	309	0	0.095
	348	0	0.152
	373	0	0.272
343.15	212	0	0.195
	249	0	0.333
	287	0	0.623
	328	0	1.00
	358	0	1.25
	400	0	1.91
	439	0	2.54
		Ethanol	
	223	1	0.96
	249	1	1.95
	316	1	2.52
	374	1	3.75
		Methylene chloride	
	234	1	1.28
	247	1	1.33
	312	1	2.17
	370	1	2.77
		Methanol	
	180	1	0.398
	268	1	0.962
	330	1	1.56
	373	1	3.06

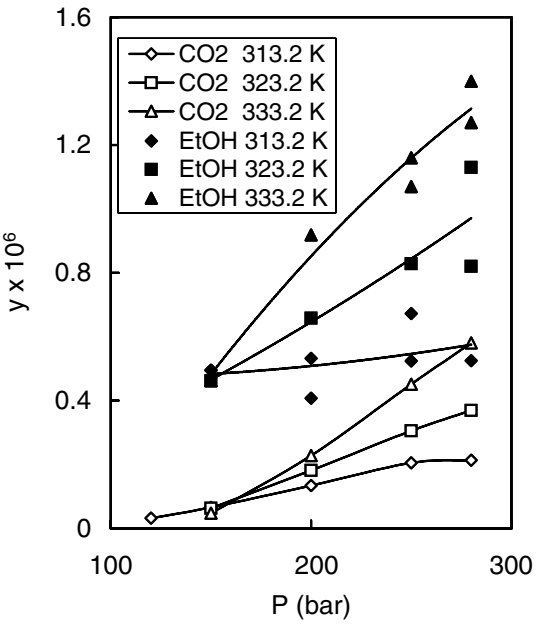


Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Cygnarowicz, M. L.; Maxwell, R. J.; Seider, W. D. *Fluid Phase Equil.* (1990), 59(1), 57-71.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-38]**

T (K)	P (bar)	Ethanol[1)] (wt%)	y x 10^6
313.2	120	0	0.032
	150	0	0.066
	200	0	0.134
	250	0	0.205
	280	0	0.213
323.2	150	0	0.063
	200	0	0.181
	250	0	0.305
	280	0	0.369
333.2	150	0	0.047
	200	0	0.228
	250	0	0.451
	280	0	0.580
313.2	150	2.12	0.495
	150	2.37	0.495
	200	0.42	0.407
	200	0.76	0.532
	250	0.44	0.524
	250	0.67	0.672
	280	0.30	0.525
323.2	150	2.07	0.462
	200	0.92	0.658
	250	0.65	0.828
	280	0.38	0.82
	280	1.30	1.13
333.2	150	1.92	0.462
	200	1.48	0.918
	250	0.64	1.07
	250	0.64	1.16
	280	0.55	1.27
	280	1.00	1.40

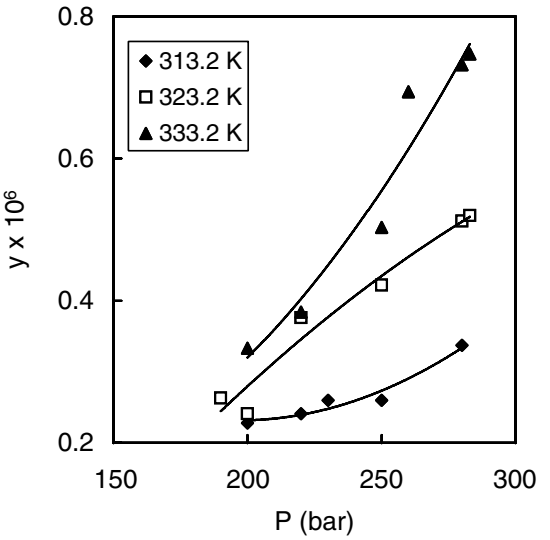
1: Cosolvent in CO_2.



Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Sovova, H.; Stateva, R. P.; Galushko, A. A. *J. Supercrit. Fluids* (2001), 21(3), 195-203.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-39]**

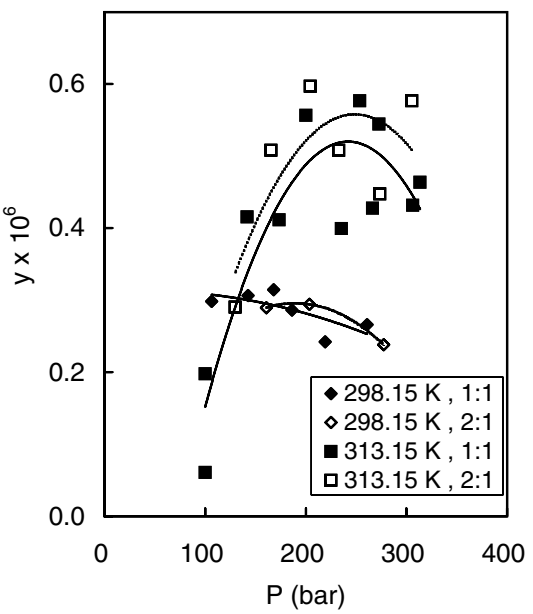
T (K)	P (bar)	Veg Oil[1)] (wt%)	y[2)] x 10^6
313.2	200	0.31	0.228
	220	0.39	0.241
	230	0.43	0.260
	250	0.53	0.260
	280	0.67	0.337
323.2	190	0.19	0.263
	200	0.23	0.241
	220	0.32	0.376
	250	0.48	0.422
	280	0.66	0.512
	283	0.67	0.520
333.2	200	0.15	0.333
	220	0.24	0.384
	250	0.39	0.503
	260	0.46	0.694
	280	0.59	0.732
	283	0.61	0.747



1: Vegetable oil that was used as a cosolvent in CO_2.
2: Some solubility data were obtained by averaging the original data at the same condition.
Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Sovova, H.; Stateva, R. P.; Galushko, A. A. *J. Supercrit. Fluids* (2001), 21(3), 195-203.

β-Carotene ($C_{40}H_{56}$; MW=536.87) **[C-40]**

T (K)	P[1)] (bar)	Mass ratio[2)] (β-car/cap)	y[1,3)] x 10^6
298.15	106	1:1	0.30
	143	1:1	0.31
	168	1:1	0.31
	186	1:1	0.29
	219	1:1	0.24
	261	1:1	0.27
	161	2:1	0.29
	204	2:1	0.29
	277	2:1	0.24
313.15	100	1:1	0.06
	100	1:1	0.20
	142	1:1	0.42
	174	1:1	0.41
	200	1:1	0.56
	235	1:1	0.40
	254	1:1	0.58
	266	1:1	0.43
	273	1:1	0.54

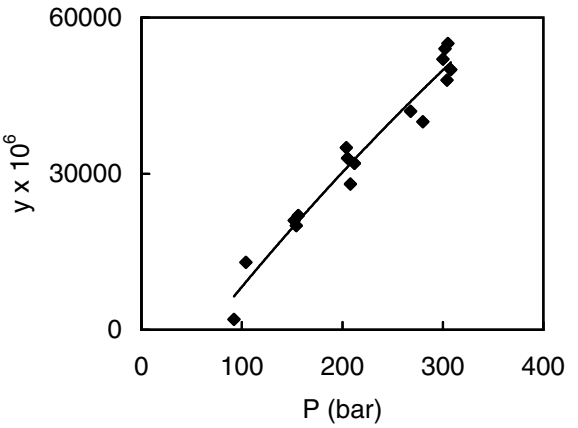


306	1:1	0.43
314	1:1	0.46
130	2:1	0.29
165	2:1	0.51
205	2:1	0.60
233	2:1	0.51
274	2:1	0.45
305	2:1	0.58

1: Obtained by digitizing the graph in the original article.
2. The mass ratio of β-carotene and capsaicin in the feed.
3: Solubility of β-carotene was measured from the binary mixture of β-carotene and capsaicin.
Synonyms: β,β-Carotene; C. I. Food Orange 5
Source: Skerget, M.; Knez, Z. *J. Agric. Food Chem.* (1997), 45(6), 2066-2069.

Carvacrol ($C_{10}H_{14}O$; MW=150.22) **[C-41]**

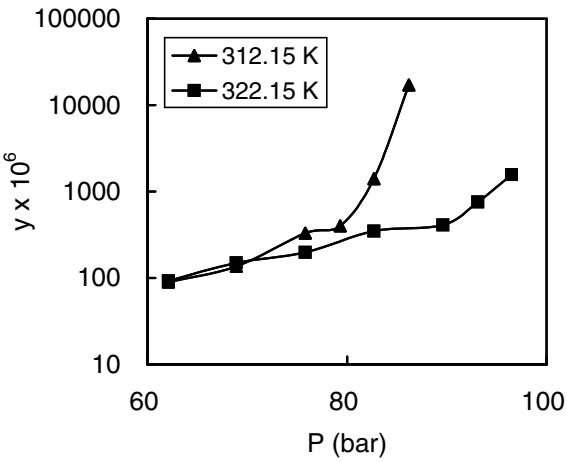
T (K)	P (bar)	H_2O[1)]	y x 10^6
313	92	sat'd	2000
	104	sat'd	13000
	152	sat'd	21000
	154	sat'd	20000
	156	sat'd	22000
	204	sat'd	35000
	205	sat'd	33000
	208	sat'd	28000
	212	sat'd	32000
	268	sat'd	42000
	280	sat'd	40000
	300	sat'd	52000
	302	sat'd	54000
	304	sat'd	48000
	305	sat'd	55000
	308	sat'd	50000



1: Cosolvent water saturated in CO_2.
Synonyms: 5-Isopropyl-2-methylphenol; 5-Isopropyl-*o*-cresol
Source: Leeke, G.; Gaspar, F.; Santos, R. *Ind. Eng. Chem. Res.* (2002), 41(8), 2033-2039.

L-Carvone ($C_{10}H_{14}O$; MW=150.22) **[C-42]**

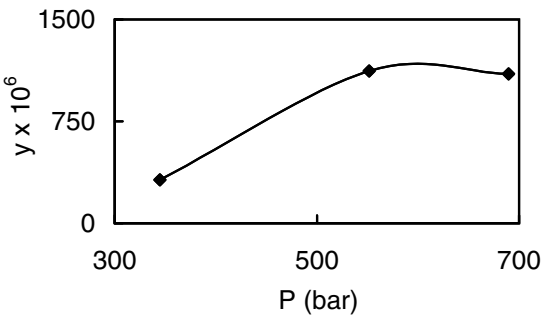
T (K)	P (bar)	y x 10^6
312.15	62.1	90
	68.9	136
	75.8	331
	79.3	400
	82.7	1411
	86.2	17046
322.15	62.1	92
	68.9	150
	75.8	198
	82.7	349
	89.6	409
	93.1	757
	96.5	1571



Synonym: (*R*)-(–)-Carvone; (*R*)-(–)-*p*-Mentha-6,8-dien-2-one
Source: Kim, K. H.; Hong, J. *Fluid Phase Equil.* (1999), 164(1), 107-115. (The numerical data were directly obtained from the authors.)

Castor oil[1)] **[C-43]**

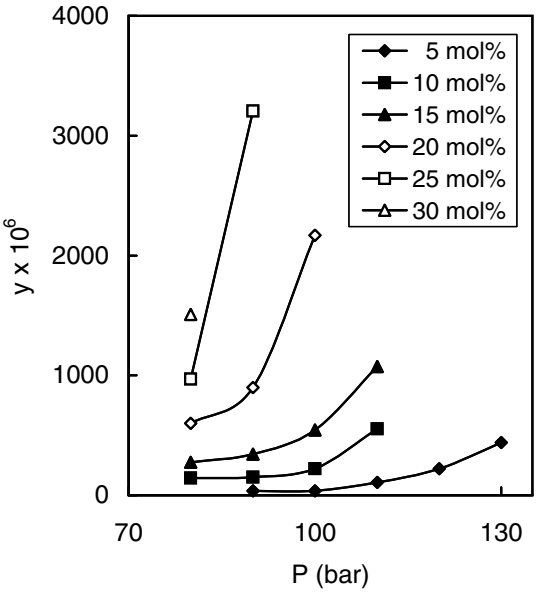
T (K)	P (bar)	y x 10^6
345.15	344.7	320
	551.6	1120
	689.5	1100



1: Cold pressed vegetable oil selling at a pharmacy.
Source: Eissler, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.

Catechin ($C_{15}H_{14}O_6$; MW=290.27) **[C-44]**

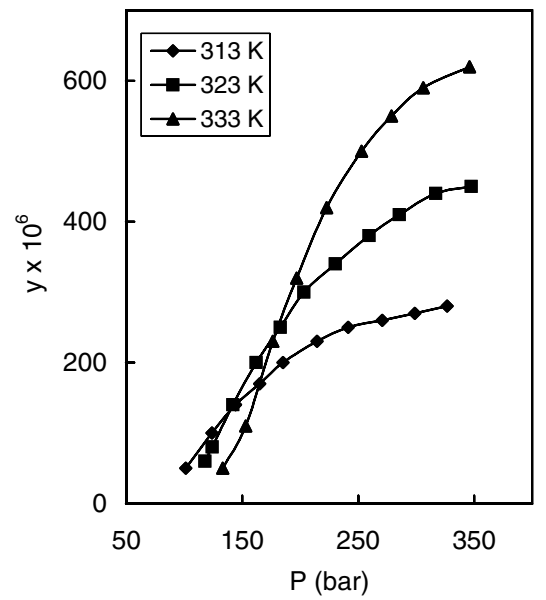
T (K)	P (bar)	Ethanol[1)] (mol %)	y x 10^6
313	90	5	36
	100	5	37
	110	5	107
	120	5	222
	130	5	439
	80	10	144
	90	10	150
	100	10	222
	110	10	553
	80	15	275
	90	15	343
	100	15	543
	110	15	1073
	80	20	601
	90	20	899
	100	20	2169
	80	25	968
	90	25	3206
	80	30	1509



1 : Cosolvent in CO_2.
Synonyms: (+)-Catechin; (+)-(2*R*,3*S*)-5,7,3',4'-Tetrahydroxyflavan-3-ol
Source: Berna, A.; Chafer, A.; Monton, J. B.; Subirats, S. *J. Supercrit. Fluids* (2001), 20(2), 157-162.

Cerium tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionate) **[C-45]**
($C_{44}H_{76}CeO_8$; FW=873.20)

T (K)	P (bar)	y x 10^6
313	101.2	50
	123.8	100
	144.2	140
	164.9	170
	185.0	200
	214.4	230
	241.3	250
	270.8	260
	298.7	270
	326.8	280
	350.9	290
323	117.7	60
	124.0	80
	141.8	140
	162.1	200
	182.9	250
	203.1	300
	230.3	340
	259.4	380
	285.6	410

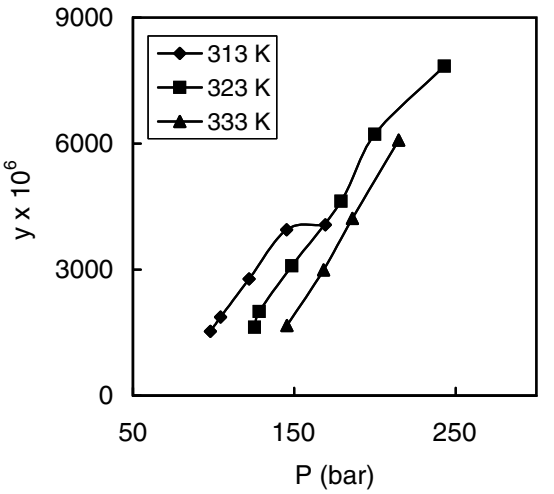


	316.8	440
	347.5	450
333	133.1	50
	152.9	110
	176.2	230
	196.8	320
	222.7	420
	252.9	500
	278.8	550
	306.0	590
	345.9	620

Synonym: Ce(thd)$_4$; Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)cerium
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

Cerium tetrakis(2,2,7-trimethyl-3,5-octanedionate) ($C_{44}H_{76}CeO_8$; FW=873.20) **[C-46]**

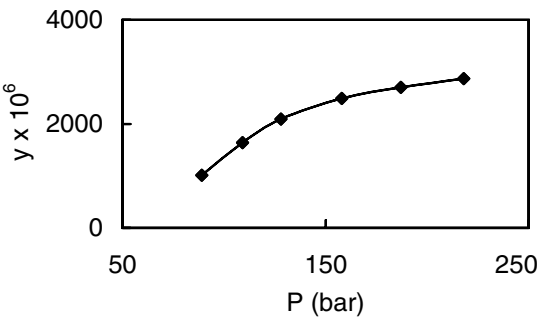
T (K)	P (bar)	y x 10^6
313	98.0	1530
	104.3	1870
	121.9	2780
	145.3	3950
	169.3	4070
323	125.4	1630
	128.2	2000
	148.4	3090
	178.9	4630
	199.9	6220
	243.0	7840
333	145.4	1670
	168.2	2990
	186.0	4220
	214.6	6080



Synonyms: Ce(tod)$_4$; Tetrakis(2,2,7-trimethyl-3,5-octanedionato)cerium
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

Cetyl alcohol ($C_{16}H_{34}O$; MW=242.44) **[C-47]**

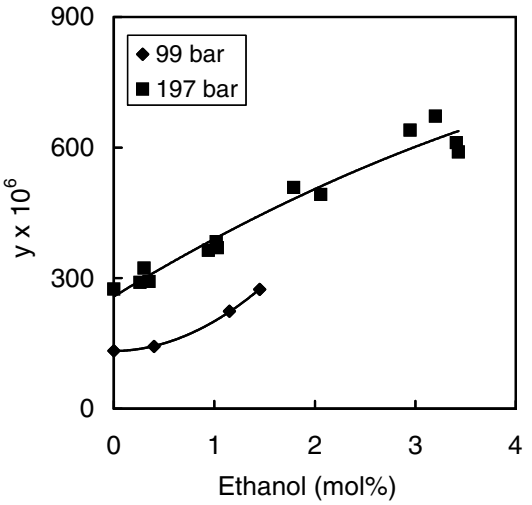
T (K)	P (bar)	y x 10^6
308.15	89	1010
	109	1640
	128	2090
	158	2490
	187	2700
	218	2870



Synonyms: 1-Hexadecanol; Palmityl alcohol
Source: Iwai, Y.; Fukuda, T.; Koga, Y.; Arai, Y. *J. Chem. Eng. Data* (1991), 36(4), 430-432.

Cetyl alcohol ($C_{16}H_{34}O$; MW=242.44) **[C-48]**

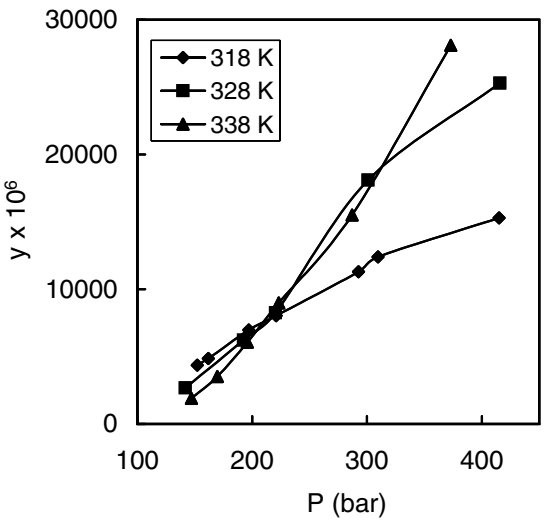
T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
308.2	99	0.00	133
		0.40	143
		1.15	224
		1.45	274
	197	0.00	275
		0.26	290
		0.30	323
		0.35	292
		0.94	364
		1.02	384
		1.03	370
		1.79	508
		2.06	492
		2.95	640
		3.20	672
		3.41	611
		3.43	590



1: Cosolvent in CO_2.
Synonyms: 1-Hexadecanol; Palmityl alcohol
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Cetyl alcohol ($C_{16}H_{34}O$; MW=242.44) **[C-49]**

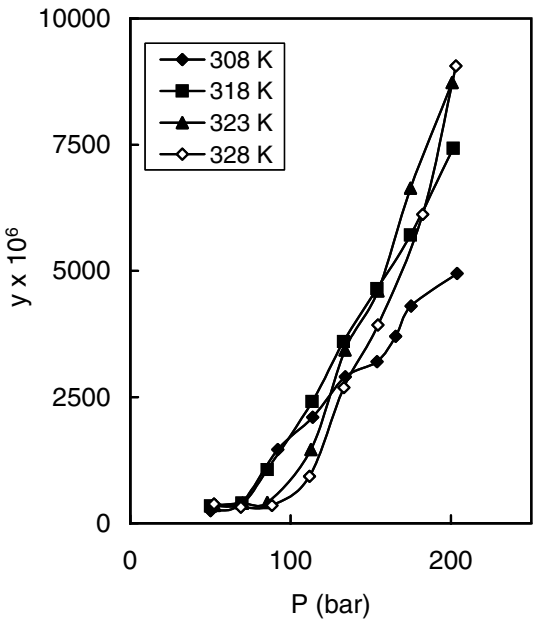
T (K)	P (bar)	y x 10^6
318	152.1	4370
	161.8	4860
	197.1	6970
	221.0	8040
	292.5	11300
	309.5	12400
	415.1	15300
328	141.8	2670
	192.6	6210
	220.3	8260
	301.1	18100
	415.9	25300
338	147.1	1900
	169.8	3520
	195.7	6070
	223.2	8980
	287.0	15500
	373.0	28100



Synonyms: 1-Hexadecanol; Palmityl alcohol
Source: Kramer, A.; Thodos, G. *J. Chem. Eng. Data* (1988), 33(3), 230-234.

Cetyl alcohol ($C_{16}H_{34}O$; MW=242.44) **[C-50]**

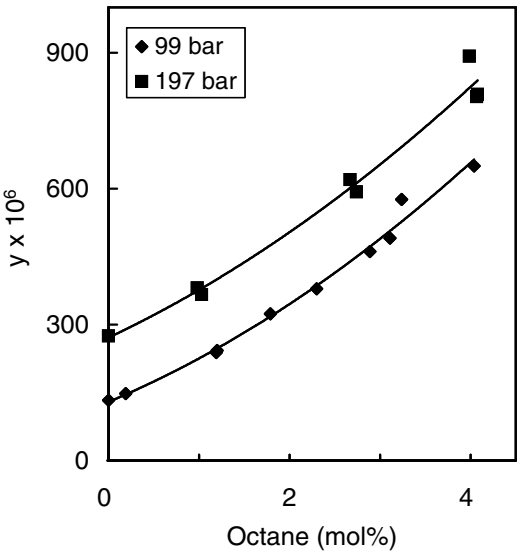
T (K)	P (bar)	y x 10^6
308	50.0	250
	68.8	380
	92.0	1460
	113.8	2100
	134.0	2900
	153.8	3200
	165.5	3700
	175.0	4300
	203.7	4950
318	50.0	340
	69.6	400
	85.5	1060
	113.4	2410
	133.0	3600
	153.8	4650
	174.8	5710
	201.3	7430
323	52.7	350
	70.0	400
	85.5	410
	112.7	1460
	133.8	3430
	154.4	4600
	174.8	6640
	200.6	8730
328	52.2	380
	69.0	320
	88.4	350
	111.7	930
	133.1	2690
	154.4	3930
	182.4	6120
	203.0	9060



Synonyms: 1-Hexadecanol; Palmityl alcohol
Source: Yau, J.; Tsai, F. *J. Chem. Eng. Data* (1992), 37(3), 285-287.

Cetyl alcohol ($C_{16}H_{34}O$; MW=242.44) **[C-51]**

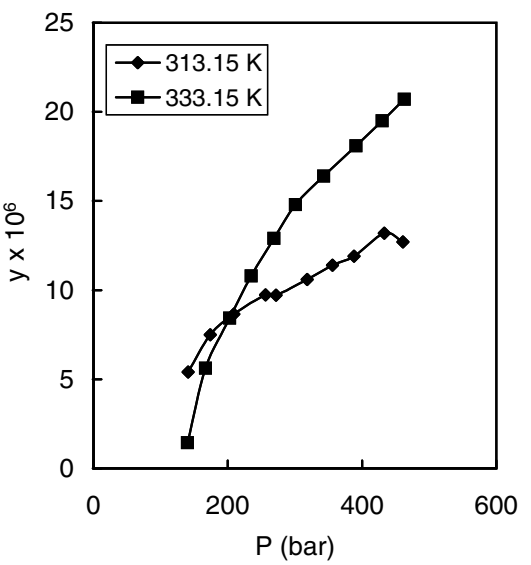
T (K)	P (bar)	Octane[1)] (mol%)	yx 10^6
308.2	99	0.00	133
		0.19	148
		1.19	238
		1.20	243
		1.79	324
		2.30	379
		2.89	461
		3.11	491
		3.24	576
		4.04	650
	197	0.00	275
		0.98	381
		1.03	366
		2.67	620
		2.74	593
		3.99	892
		4.07	803
		4.08	808



1: Cosolvent in CO_2.
Synonyms: 1-Hexadecanol; Palmityl alcohol
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.*(1996), 125, 115-128.

Chloramphenicol ($C_{11}H_{12}Cl_2N_2O_5$; MW=323.13) **[C-52]**

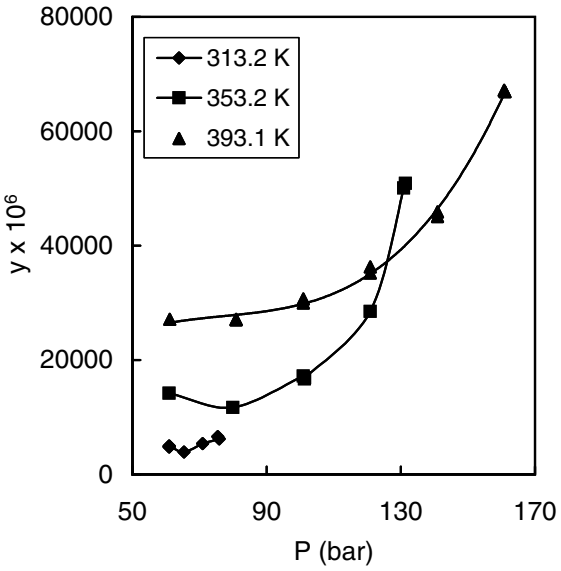
T (K)	P (bar)	y x 10^6
313.15	141	5.40
	174	7.49
	209	8.66
	256	9.73
	272	9.72
	318	10.6
	356	11.4
	388	11.9
	433	13.2
	461	12.7
333.15	140	1.44
	167	5.62
	203	8.43
	235	10.8
	269	12.9
	301	14.8
	343	16.4
	391	18.1
	430	19.5
	463	20.7



Synonym: 2,2-Dichloro-*N*-((1*R*,2*R*)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl)acetamide
Source: Li, S.; Maxwell, R. J.; Shadwell, R. J. *Fluid Phase Equil.*(2002), 198(1), 67-80.

Chlorobenzene (C_6H_5 Cl; MW=112.56) **[C-53]**

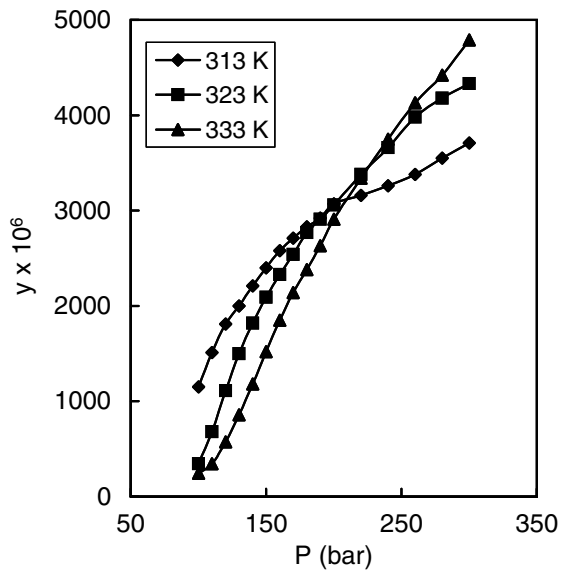
T (K)	P (bar)	y x 10^6
313.2	60.9	4800
	60.9	4900
	60.9	5000
	65.4	3900
	70.9	5400
	75.9	6200
	75.4	6600
353.2	60.9	14200
	79.9	11700
	100.9	17200
	101.3	16700
	101.4	16900
	120.9	28500
	130.9	50100
	131.4	50900
393.1	61.1	27100
	80.9	27000
	80.9	27100
	100.9	30700
	100.9	30000
	120.9	35200
	120.9	36300
	140.9	45900
	140.9	45100
	160.8	67200
	161.1	66900



Source: Walther, D.; Maurer, G. *Ber. Bunsenges. Phys. Chem.* (1992), 96(8), 981-988.

2-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-54]**

T (K)	P (bar)	y x 10^6
313	100	1150
	110	1510
	120	1810
	130	2000
	140	2210
	150	2400
	160	2580
	170	2710
	180	2830
	190	2920
	200	3070
	220	3160
	240	3260
	260	3380
	280	3550
	300	3710
323	100	344
	110	682
	120	1110



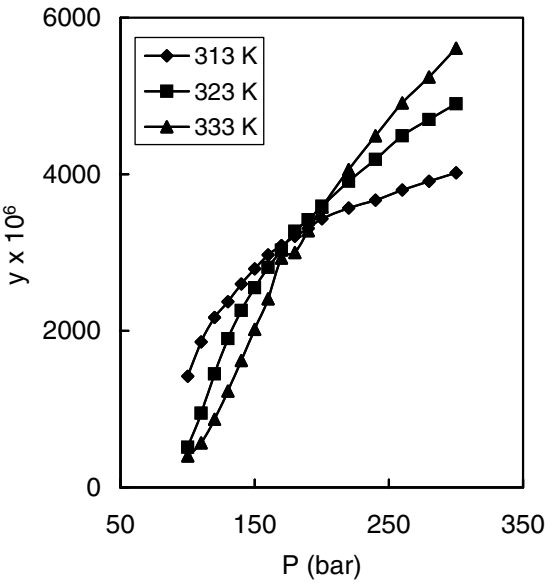
	130	1500
	140	1820
	150	2090
	160	2330
	170	2540
	180	2770
	190	2910
	200	3060
	220	3380
	240	3660
	260	3980
	280	4180
	300	4330
333	100	243
	110	346
	120	574
	130	859
	140	1180
	150	1520
	160	1850
	170	2140
	180	2380
	190	2630
	200	2910
	220	3340
	240	3750
	260	4130
	280	4420
	300	4790

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-55]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	1420
	110	5.0	1860
	120	5.0	2170
	130	5.0	2370
	140	5.0	2600
	150	5.0	2790
	160	5.0	2970
	170	5.0	3090
	180	5.0	3210
	190	5.0	3310
	200	5.0	3430
	220	5.0	3570
	240	5.0	3670
	260	5.0	3800

	280	5.0	3910
	300	5.0	4020
323	100	5.0	513
	110	5.0	948
	120	5.0	1450
	130	5.0	1900
	140	5.0	2260
	150	5.0	2550
	160	5.0	2810
	170	5.0	3030
	180	5.0	3270
	190	5.0	3420
	200	5.0	3590
	220	5.0	3910
	240	5.0	4190
	260	5.0	4490
	280	5.0	4700
	300	5.0	4900
333	100	5.0	401
	110	5.0	567
	120	5.0	869
	130	5.0	1230
	140	5.0	1620
	150	5.0	2020
	160	5.0	2410
	170	5.0	2930
	180	5.0	3000
	190	5.0	3280
	200	5.0	3580
	220	5.0	4060
	240	5.0	4490
	260	5.0	4910
	280	5.0	5240
	300	5.0	5610

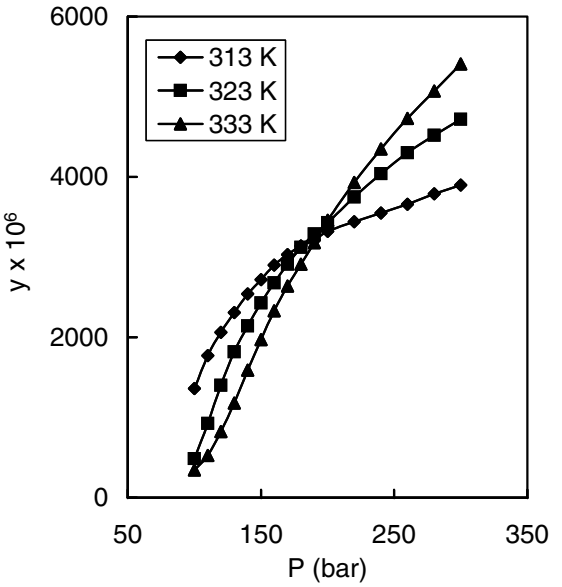


1: Cosolventin CO_2.
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-56]**

T (K)	P (bar)	Methanol[1)] (mol%)	yx 10^6
313	100	5.0	1360
	110	5.0	1770
	120	5.0	2060
	130	5.0	2310
	140	5.0	2540
	150	5.0	2720
	160	5.0	2900
	170	5.0	3030
	180	5.0	3140
	190	5.0	3210

	200	5.0	3320
	220	5.0	3440
	240	5.0	3550
	260	5.0	3660
	280	5.0	3790
	300	5.0	3900
323	100	5.0	485
	110	5.0	925
	120	5.0	1400
	130	5.0	1820
	140	5.0	2140
	150	5.0	2430
	160	5.0	2680
	170	5.0	2910
	180	5.0	3120
	190	5.0	3290
	200	5.0	3430
	220	5.0	3750
	240	5.0	4040
	260	5.0	4300
	280	5.0	4520
	300	5.0	4720
333	100	5.0	346
	110	5.0	526
	120	5.0	825
	130	5.0	1180
	140	5.0	1590
	150	5.0	1970
	160	5.0	2330
	170	5.0	2640
	180	5.0	2910
	190	5.0	3180
	200	5.0	3460
	220	5.0	3930
	240	5.0	4350
	260	5.0	4730
	280	5.0	5070
	300	5.0	5410

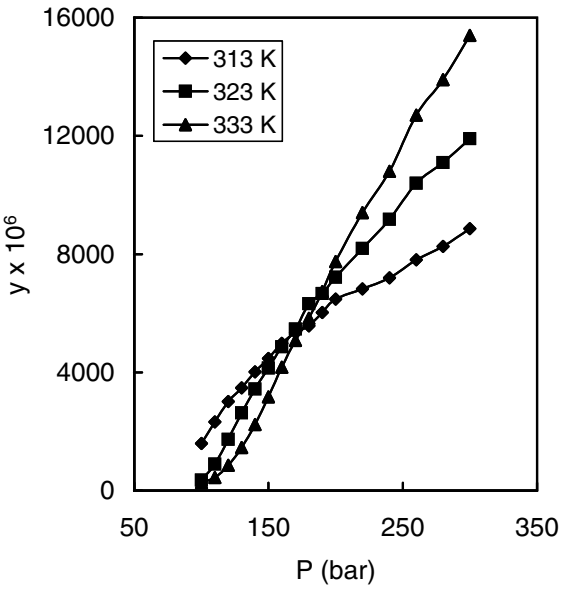


1: Cosolvent in CO_2.
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

4-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-57]**

T (K)	P (bar)	y x 10^6
313	100	1600
	110	2320
	120	3010
	130	3480
	140	4020
	150	4470
	160	4980

	170	5350
	180	5570
	190	6030
	200	6480
	220	6820
	240	7200
	260	7810
	280	8260
	300	8860
323	100	357
	110	899
	120	1730
	130	2630
	140	3440
	150	4150
	160	4860
	170	5460
	180	6320
	190	6670
	200	7220
	220	8190
	240	9180
	260	10400
	280	11100
	300	11900
333	100	267
	110	442
	120	859
	130	1460
	140	2240
	150	3170
	160	4170
	170	5080
	180	5830
	190	6730
	200	7750
	220	9400
	240	10800
	260	12700
	280	13900
	300	15400

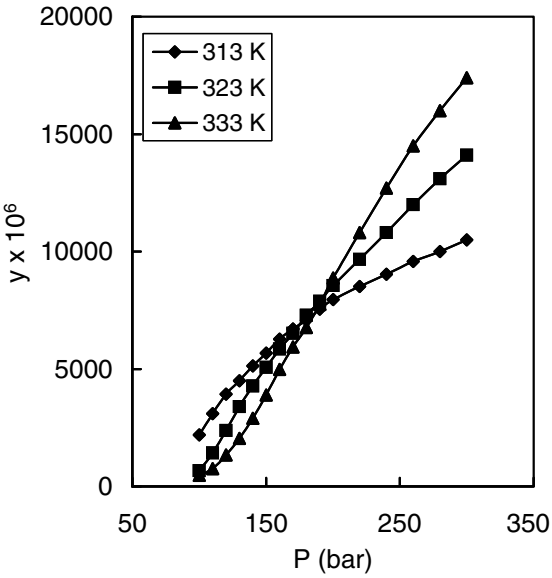


Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

4-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-58]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	2190
	110	5.0	3100
	120	5.0	3930

	130	5.0	4500
	140	5.0	5130
	150	5.0	5680
	160	5.0	6270
	170	5.0	6710
	180	5.0	7070
	190	5.0	7550
	200	5.0	7960
	220	5.0	8510
	240	5.0	9030
	260	5.0	9580
	280	5.0	10000
	300	5.0	10500
323	100	5.0	671
	110	5.0	1420
	120	5.0	2380
	130	5.0	3390
	140	5.0	4280
	150	5.0	5070
	160	5.0	5850
	170	5.0	6520
	180	5.0	7290
	190	5.0	7880
	200	5.0	8550
	220	5.0	9660
	240	5.0	10800
	260	5.0	12000
	280	5.0	13100
	300	5.0	14100
333	100	5.0	470
	110	5.0	751
	120	5.0	1340
	130	5.0	2050
	140	5.0	2900
	150	5.0	3890
	160	5.0	4980
	170	5.0	5930
	180	5.0	6770
	190	5.0	7750
	200	5.0	8870
	220	5.0	10800
	240	5.0	12700
	260	5.0	14500
	280	5.0	16000
	300	5.0	17400

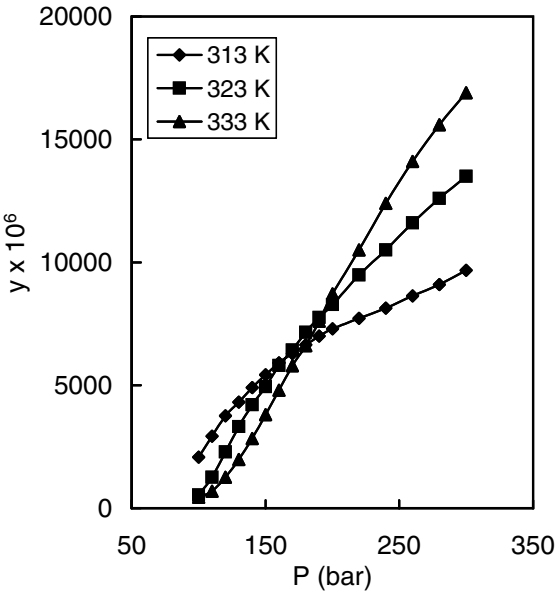


1: Cosolventin CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

4-Chlorobiphenyl ($C_{12}H_9Cl$; MW=188.66) **[C-59]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	2070
	110	5.0	2920
	120	5.0	3750
	130	5.0	4310
	140	5.0	4900
	150	5.0	5420
	160	5.0	5910
	170	5.0	6290
	180	5.0	6640
	190	5.0	7000
	200	5.0	7300
	220	5.0	7720
	240	5.0	8140
	260	5.0	8630
	280	5.0	9090
	300	5.0	9670
323	100	5.0	535
	110	5.0	1250
	120	5.0	2290
	130	5.0	3310
	140	5.0	4200
	150	5.0	4940
	160	5.0	5800
	170	5.0	6430
	180	5.0	7150
	190	5.0	7760
	200	5.0	8280
	220	5.0	9480
	240	5.0	10500
	260	5.0	11600
	280	5.0	12600
	300	5.0	13500
333	100	5.0	435
	110	5.0	681
	120	5.0	1250
	130	5.0	1980
	140	5.0	2830
	150	5.0	3800
	160	5.0	4800
	170	5.0	5790
	180	5.0	6610
	190	5.0	7600
	200	5.0	8710
	220	5.0	10500



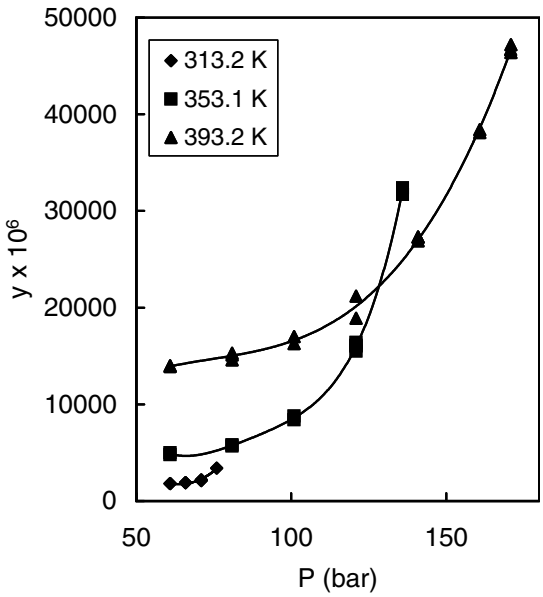
240	5.0	12400
260	5.0	14100
280	5.0	15600
300	5.0	16900

1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2-Chloro-1-methylbenzene (C_7H_7Cl; MW=126.58) **[C-60]**

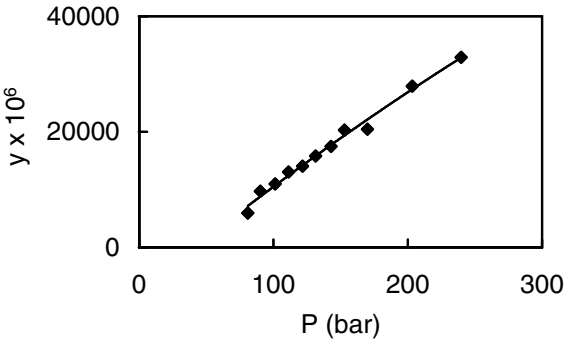
T (K)	P (bar)	y x 10^6
313.2	60.9	1800
	60.9	1800
	65.9	1900
	65.9	1900
	70.9	2100
	70.9	2200
	75.9	3400
353.1	60.9	5000
	60.9	4800
	80.9	5800
	80.9	5700
	100.9	8800
	100.9	8400
	120.9	16100
	120.9	15500
	120.9	16400
	120.9	16000
	135.9	31700
	135.9	32400
393.2	60.9	14000
	60.9	13900
	80.9	15300
	80.9	14600
	80.9	15100
	100.9	16300
	100.9	17000
	120.9	21200
	120.9	18900
	140.9	26900
	140.9	27300
	140.9	27300
	160.8	38100
	160.8	38400
	170.8	46700
	170.9	47200
	170.9	46400



Source: Walther, D.; Maurer, G. *Ber. Bunsenges. Phys. Chem.* (1992), 96(8), 981-988.

_p_-Chlorophenol (C_6H_5ClO; MW=128.56) **[C-61]**

T (K)	P (bar)	y x 10^6
309.2	81.0	5960
	90.3	9730
	101.2	10990
	111.2	13030
	121.7	14060
	131.3	15830
	142.9	17480
	152.9	20310
	169.9	20470
	203.3	27890
	239.8	32890



Synonym: 4-Chlorophenol
Source: Van Leer, R. A.; Paulaitis, M. E. *J. Chem. Eng. Data* (1980), 25(3), 257-259.

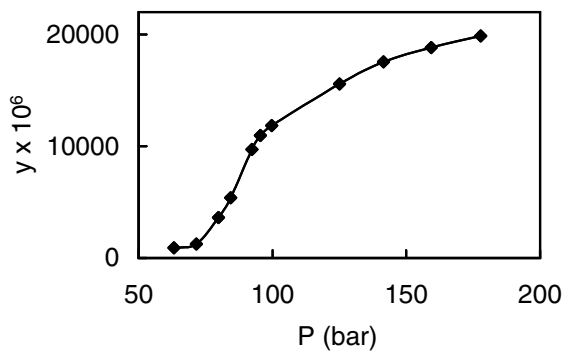
Chlorophyllian pigments[1] **[C-62]**

T (K)	P[2] (bar)	S[2] x 10^3 (g/L)	w[3] x 10^6
307.7	120	7.4	9.5
	150	17.2	20.9
	200	30.6	35.2

1: Extracted from marine alga(*Dilophus Spiralis*).
2: Obtained by digitizing the graph in the original article.
3: Calculated from S.
Source: Subra, P.; Tufeu, R. *J. Supercrit. Fluids* (1990), 3(1), 20-22.

2-Chloropyrimidine ($C_4H_3ClN_2$; MW=114.53) **[C-63]**

T (K)	P (bar)	y x 10^6
308.15	63.2	913
	71.5	1260
	79.8	3610
	84.4	5400
	92.3	9700
	95.5	10950
	99.7	11840
	125.1	15570
	141.5	17550
	159.3	18830
	177.8	19870



Synonym: 2-Chloro-1,3-pyrimidine
Katayama, T. *J. Chem. Eng. Data* (1991), 36(3), 314-316.
Source: Nakatani, T.; Tondo, T.; Ohgaki, K.;

Cholesterol ($C_{27}H_{46}O$; MW=386.65)

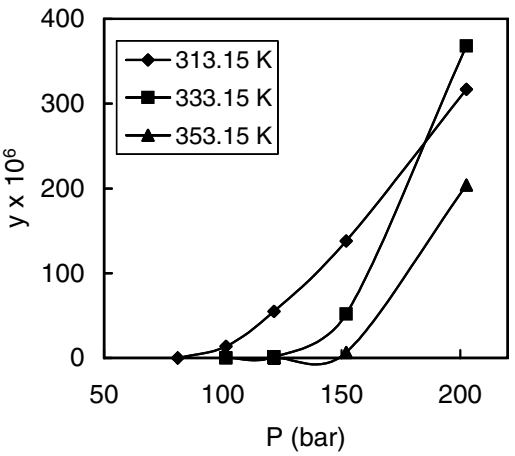
[C-64]

T(K)	P(bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	81.1	0.000	0.0
	101.3	0.078	13.8
	121.6	0.350	55.0
	152.0	0.950	138.0
	202.7	2.350	317.0
333.15	101.3	0.000	0.0
	121.6	0.006	1.5
	152.0	0.280	52.0
	202.7	2.360	368.0
353.15	121.6	0.000	0.0
	152.0	0.025	6.5
	202.7	1.080	204.0

1: Calculated from S.

Synonym: Cholest-5-en-3β-ol

Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



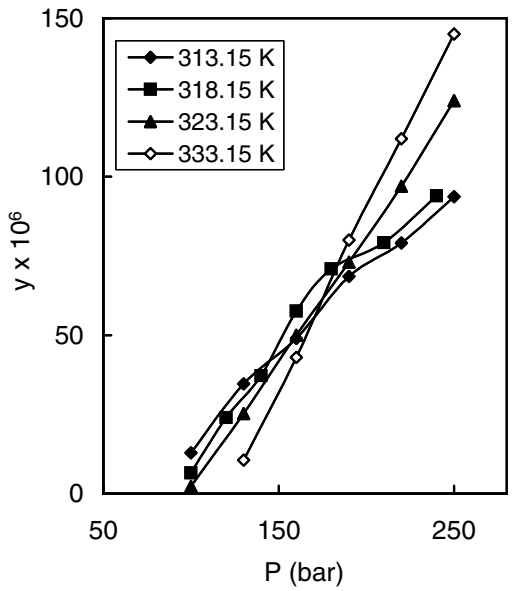
Cholesterol ($C_{27}H_{46}O$; MW=386.65)

[C-65]

T (K)	P (bar)	y x 10^6
313.15	100	12.9
	130	34.6
	160	49.0
	190	68.5
	220	79.1
	250	93.7
318.15	100	6.5
	120	24.0
	140	37.2
	160	57.6
	180	70.9
	210	79.2
	240	94.0
323.15	100	2.3
	130	25.3
	160	50.0
	190	73.0
	220	97.0
	250	124.0
333.15	130	10.6
	160	43.0
	190	80.0
	220	112.0
	250	145.0

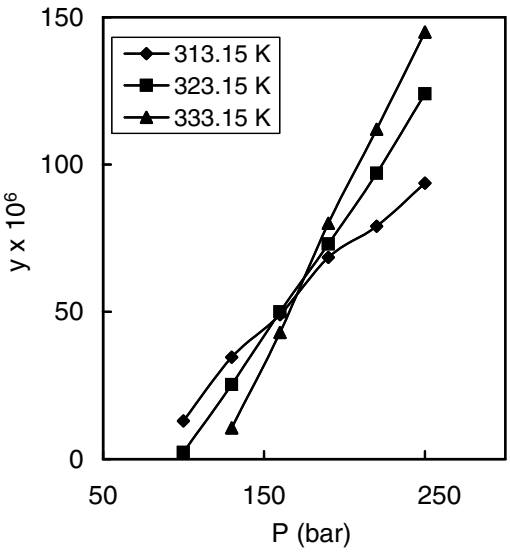
Synonym: Cholest-5-en-3β-ol

Source: Huang, Z.; Kawi, S.; Chiew, Y. C. *J. Supercrit. Fluids* (2004), 30(1), 25-39.



Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-66]**

T (K)	P (bar)	y x 10^6
313.15	100	12.9
	130	34.6
	160	49.0
	190	68.5
	220	79.1
	250	93.7
323.15	100	2.3
	130	25.3
	160	50.0
	190	73.0
	220	97.0
	250	124.0
333.15	130	10.6
	160	43.0
	190	80.0
	220	112.0
	250	145.0

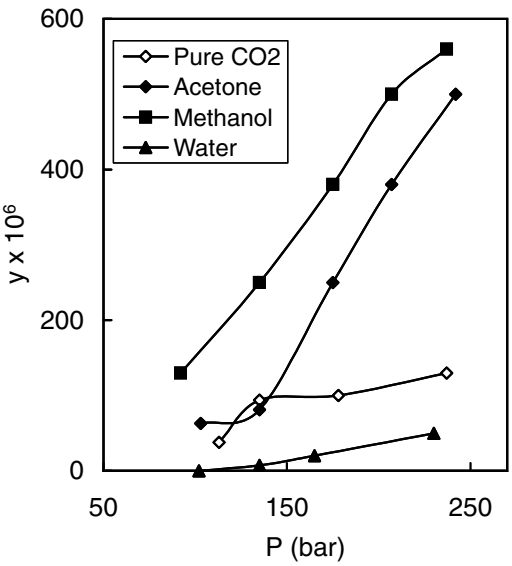


Synonym: Cholest-5-en-3β-ol

Source: Yun, S. L. J.; Liong, K. K.; Gurdial, G. S.; Foster, N. R.*Ind. Eng. Chem. Res.* (1991), 30(11), 2476-2482.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-67]**

T (K)	P (bar)	Cosolvent (wt%)	y[1)] x 10^6
313.15	113	0.0	38
	135	0.0	94
	178	0.0	100
	237	0.0	130
		Acetone	
313.15	103	3.0	63
	135	3.0	81
	175	3.0	250
	207	3.0	380
	242	3.0	500
		Methanol	
313.15	92	3.0	130
	135	3.0	250
	175	3.0	380
	207	3.0	500
	237	3.0	560
		Water	
313.15	102	3.0	0
	135	3.0	8



	165	3.0	20
	230	3.0	50

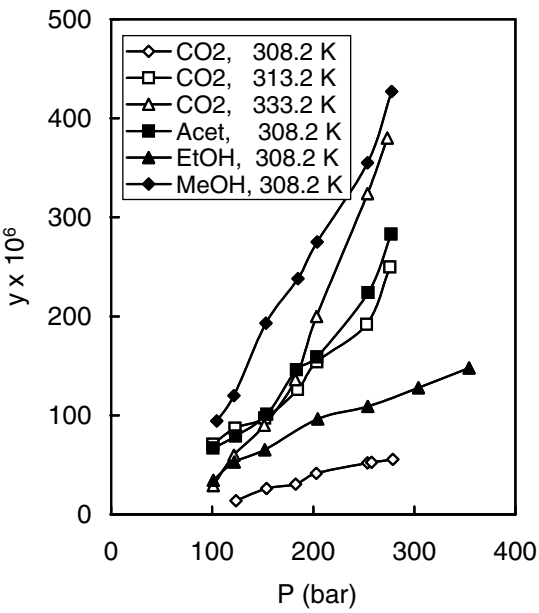
1: Obtained by digitizing the graph in the original article. Some data may have large reading errors of more than 10% as the original graph is in a semi-log scale with a small span.

Synonym: Cholest-5-en-3β-ol

Source: Noh, M. J.; Kim, T. G.; Hong, I. K.; Yoo, K.-P.*Korean J. Chem. Eng.* (1995), 12(1), 48-55.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-68]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.15	123.6	0.0	13.9
	153.9	0.0	26.1
	182.7	0.0	30.7
	203.0	0.0	41.5
	253.6	0.0	51.9
	257.6	0.0	52.5
	278.9	0.0	55.5
		Acetone	
	100.8	3.5	67.0
	123.2	3.5	79.2
	154.2	3.5	101.0
	183.3	3.5	146.0
	203.6	3.5	159.0
	254.3	3.5	224.0
	277.1	3.5	283.0
		Ethanol	
	101.0	3.5	34.4
	121.8	3.5	52.8
	152.0	3.5	65.4
	204.4	3.5	96.5
	254.0	3.5	109.0
	304.1	3.5	128.0
	354.3	3.5	148.0
		Methanol	
	104.6	3.5	94.4
	121.5	3.5	120.0
	153.2	3.5	193.0
	184.9	3.5	238.0
	203.9	3.5	275.0
	253.8	3.5	355.0
	277.6	3.5	427.0
313.15	100.9	0.0	70.8
	122.7	0.0	86.9
	152.0	0.0	97.4
	184.5	0.0	126.0

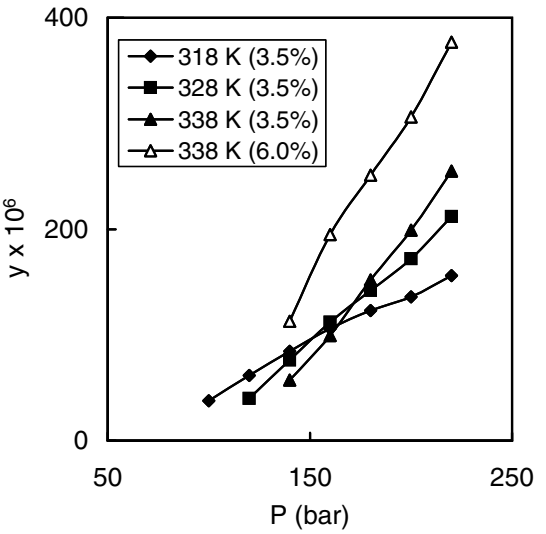


	203.5	0.0	154.0
	252.7	0.0	192.0
	276.0	0.0	250.0
333.15	101.0	0.0	29.1
	121.5	0.0	59.7
	151.5	0.0	90.0
	182.2	0.0	136.0
	203.4	0.0	200.0
	253.6	0.0	324.0
	273.3	0.0	380.0

Synonym: Cholest-5-en-3-ol
Source: Wong, J. M.; Johnston, K. P. *Biotech. Progr.* (1986), 2(1), 29-39.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-69]**

T (K)	P (bar)	Acetone[1)] (mol %)	y x 10^6
318	100	3.5	37.6
	120	3.5	61.8
	140	3.5	84.6
	160	3.5	106.0
	180	3.5	123.0
	200	3.5	136.0
	220	3.5	156.0
328	120	3.5	40.0
	140	3.5	76.2
	160	3.5	112.0
	180	3.5	142.0
	200	3.5	172.0
	220	3.5	212.0
338	140	3.5	57.2
	160	3.5	99.4
	180	3.5	152.0
	200	3.5	199.0
	220	3.5	255.0
	140	6.0	113.0
	160	6.0	195.0
	180	6.0	251.0
	200	6.0	306.0
	220	6.0	377.0

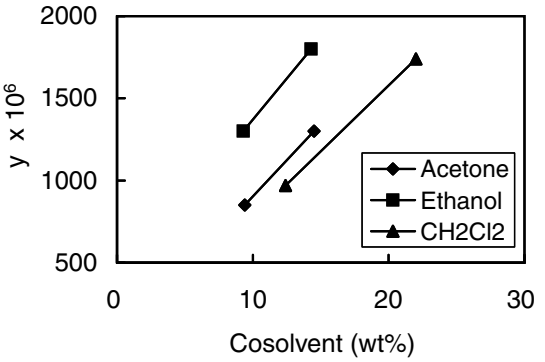


1: Cosolvent in CO_2.

Synonym: Cholest-5-en-3β-ol
Source: Foster, N. R.; Singh, H.; Yun, S. L. J.; Tomasko, D. L.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(11), 2849-2853.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-70]**

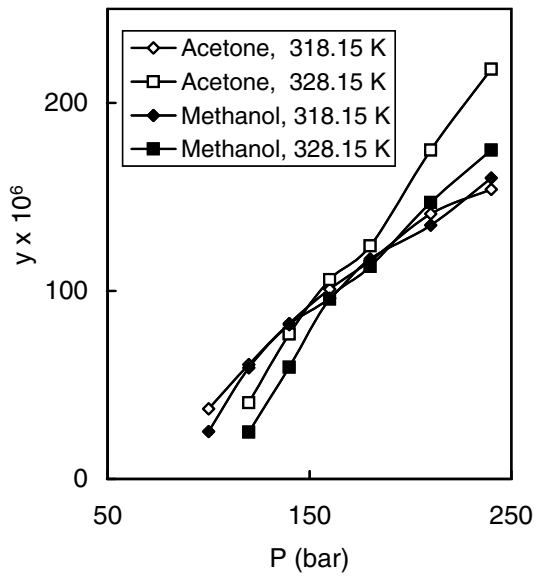
T (K)	P (bar)	Cosolvent (wt%)	w x 10^6
		Acetone	
313	180	9.4	850
		14.5	1300
		Ethanol	
313	180	9.3	1300
		14.3	1800
		CH_2Cl_2	
313	180	12.4	970
		22.0	1740



Synonym: Cholest-5-en-3β-ol
Fanovich, M. A., Elvira, C., Subra, P.,
J. Appl. Polym. Sci., 90(13), 3652-3659, (2003).
Source: Domingo, C., Vega, A.,

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-71]**

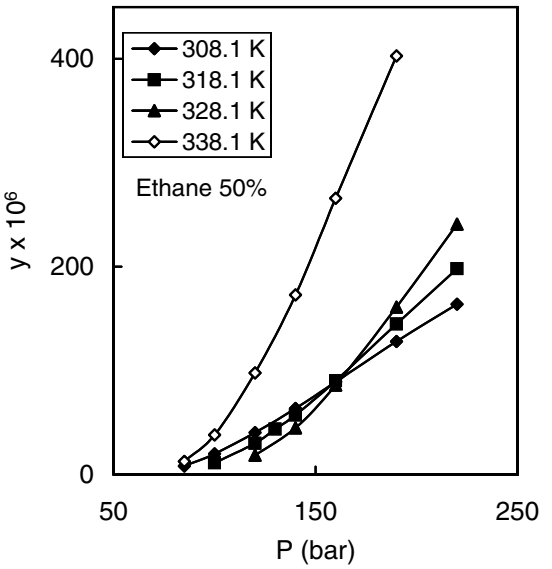
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetone	
318.15	100	3.0	37.3
	120	3.0	60.8
	140	3.0	82.6
	160	3.0	101.0
	180	3.0	116.0
	210	3.0	141.0
	240	3.0	154.0
328.15	120	3.0	40.5
	140	3.0	77.1
	160	3.0	106.0
	180	3.0	124.0
	210	3.0	175.0
	240	3.0	218.0
		Methanol	
318.15	100	3.0	25.3
	120	3.0	59.2
	140	3.0	82.0
	160	3.0	96.1
	180	3.0	117.0
	210	3.0	135.0
	240	3.0	160.0
328.15	120	3.0	24.9
	140	3.0	59.5
	160	3.0	95.7
	180	3.0	113.0
	210	3.0	147.0
	240	3.0	175.0

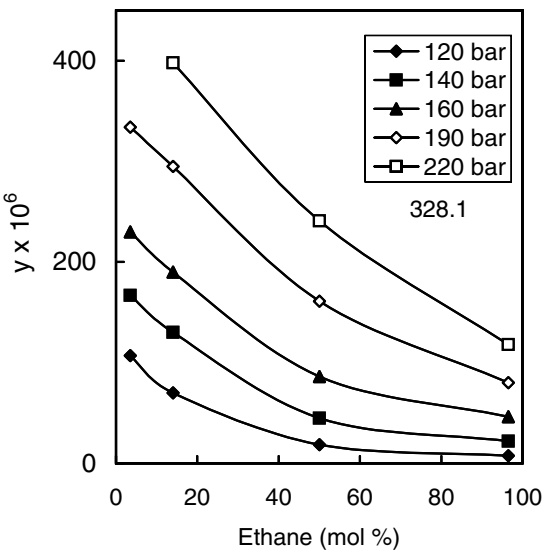


Synonym: Cholest-5-en-3β-ol
Source: Huang, Z.; Kawi, S.; Chiew, Y. C.
J. Supercrit. Fluids (2004), 30(1), 25-39.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-72]**

T (K)	P (bar)	Ethane[1)] (mol %)	y x 10^6
308.1	85	50.0	8.0
	100	50.0	20.0
	120	50.0	40.4
	140	50.0	63.7
	160	50.0	89.0
	190	50.0	128.0
	220	50.0	164.0
318.1	100	50.0	11.1
	120	50.0	30.0
	130	50.0	43.7
	140	50.0	57.1
	160	50.0	90.1
	190	50.0	145.0
	220	50.0	198.0
338.1	85	50.0	12.5
	100	50.0	38.2
	120	50.0	97.9
	140	50.0	173.0
	160	50.0	266.0
	190	50.0	403.0
328.1	85	3.5	23.9
	100	3.5	54.8
	120	3.5	107.0
	140	3.5	167.0
	160	3.5	230.0
	190	3.5	334.0
	100	14.0	31.9
	120	14.0	70.1
	140	14.0	130.0
	160	14.0	190.0
	190	14.0	295.0
	220	14.0	398.0
	120	50.0	18.6
	140	50.0	44.9
	160	50.0	86.1
	190	50.0	161.0
	220	50.0	241.0
	120	96.5	7.4
	140	96.5	21.9
	160	96.5	46.3
	190	96.5	80.1
	220	96.5	118.0

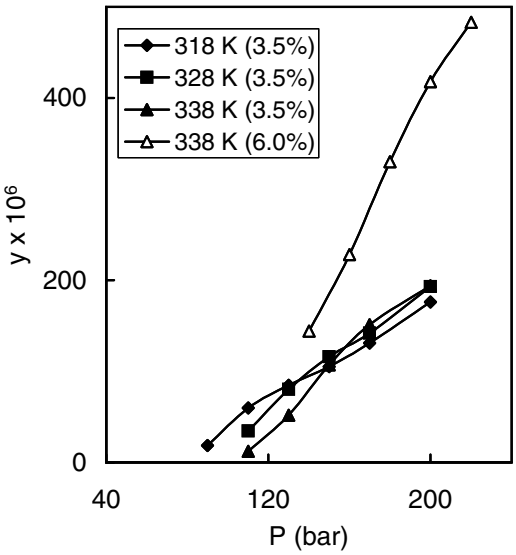




1: Cosolvent in CO_2 on a solute-free basis.
Synonym: Cholest-5-en-3β-ol
Source: Singh, H.; Yun, S. L. J.; Macnaughton, S. J.; Tomasko, D. L.; Foster, N. R. *Ind. Eng. Chem. Res.* (1993), 32(11), 2841-2848.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-73]**

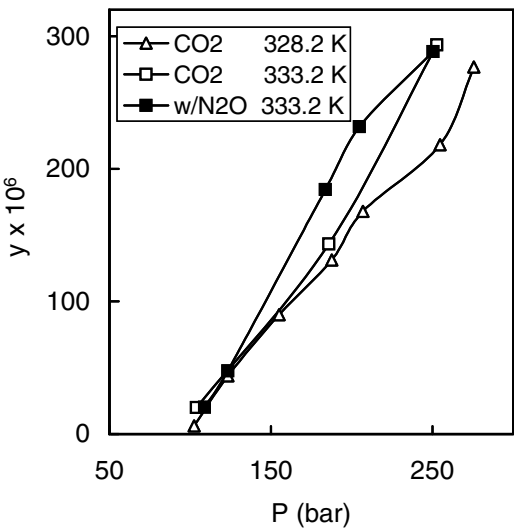
T (K)	P (bar)	Hexane[1)] (mol %)	y x 10^6
318	90	3.5	18.5
	110	3.5	59.8
	130	3.5	84.7
	150	3.5	105.0
	170	3.5	131.0
	200	3.5	176.0
328	110	3.5	34.4
	130	3.5	80.2
	150	3.5	116.0
	170	3.5	142.0
	200	3.5	193.0
338	110	3.5	12.1
	130	3.5	51.7
	150	3.5	107.0
	170	3.5	151.0
	200	3.5	194.0
	140	6.0	144.0
	160	6.0	228.0
	180	6.0	330.0
	200	6.0	418.0
	220	6.0	483.0



1: Cosolvent in CO_2.
Synonym: Cholest-5-en-3β-ol
Source: Foster, N. R.; Singh, H.; Yun, S. L. J.; Tomasko, D. L.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(11), 2849-2853.

Cholesterol ($C_{27}H_{46}O$; MW=386.65) **[C-74]**

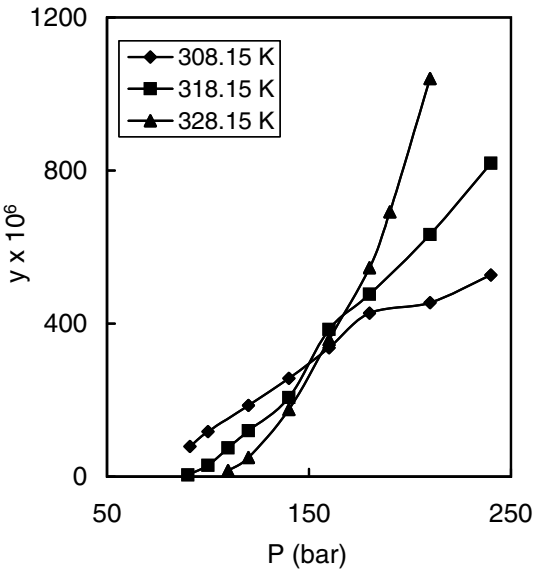
T (K)	P (bar)	N_2O[1)] (vol %)	y x 10^6
328.2	102.5	0.0	6.1
	123.4	0.0	43.8
	155.1	0.0	90.0
	187.8	0.0	131.2
	206.9	0.0	167.8
	254.8	0.0	218.1
	275.7	0.0	276.7
333.2	104.0	0.0	19.9
	185.8	0.0	143.3
	252.7	0.0	293.4
	108.9	10.0	20.2
	123.4	10.0	47.6
	183.7	10.0	184.3
	204.9	10.0	231.8
	250.5	10.0	288.5



1. Cosolvent in CO_2.
Synonym: Cholest-5-en-3β-ol
Source: Kosal, E.; Lee, C. H.; Holder, G. D. *J. Supercrit. Fluids* (1992), 5(3), 169-179.

Cholesterol acetate ($C_{29}H_{48}O_2$; MW=428.69) **[C-75]**

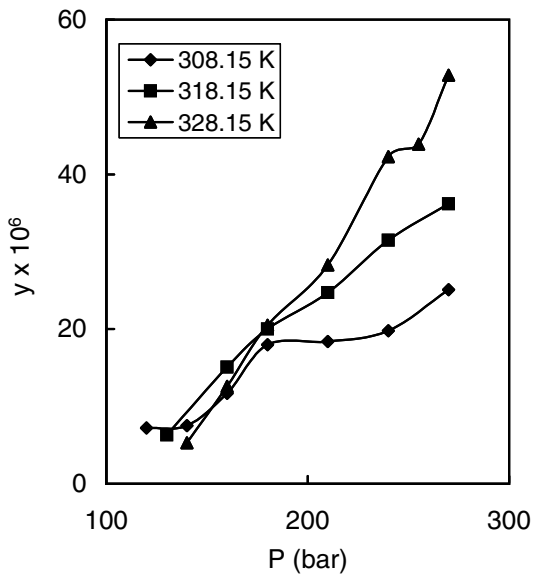
T (K)	P (bar)	y x 10^6
308.15	91	79.2
	100	118.0
	120	186.0
	140	257.0
	160	337.0
	180	427.0
	210	455.0
	240	527.0
318.15	90	4.4
	100	29.9
	110	75.5
	120	120.0
	140	207.0
	160	385.0
	180	477.0
	210	633.0
	240	819.0
328.15	110	16.2
	120	50.1
	140	176.0
	160	358.0
	180	546.0
	190	692.0
	210	1040.0



Synonym: Cholesteryl acetate
Source: Huang, Z.; Kawi, S.; Chiew, Y. C.
J. Supercrit. Fluids (2004), 30(1), 25-39.

Cholesterol benzoate ($C_{34}H_{50}O_2$; MW=490.76) **[C-76]**

T (K)	P (bar)	y x 10^6
308.15	120	7.2
	140	7.5
	160	11.7
	180	18.0
	210	18.4
	240	19.8
	270	25.1
318.15	130	6.3
	160	15.1
	180	20.0
	210	24.7
	240	31.5
	270	36.2
328.15	140	5.3
	160	12.6
	180	20.5
	210	28.3
	240	42.3

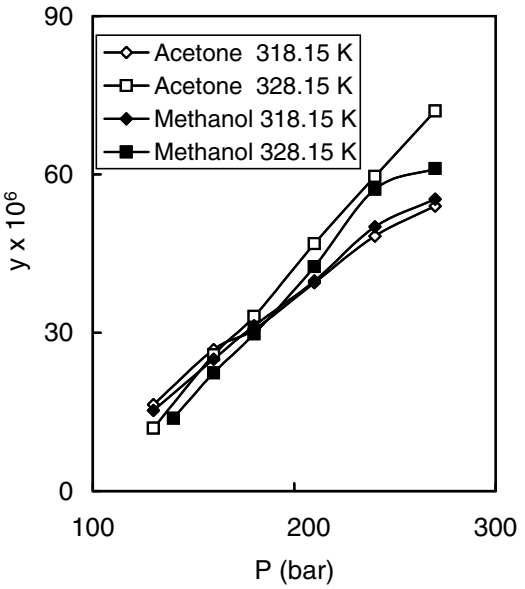


	255	43.9
	270	52.8

Synonym: Cholesteryl benzoate
Source: Huang, Z.; Kawi, S.; Chiew, Y. C. *J. Supercrit. Fluids* (2004), 30(1), 25-39.

Cholesterol benzoate($C_{34}H_{50}O_2$; MW=490.76) **[C-77]**

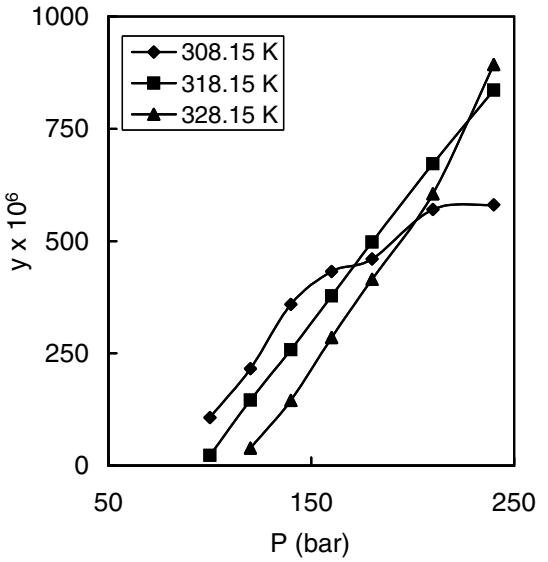
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetone	
318.15	130	3.0	16.4
	160	3.0	26.8
	180	3.0	30.6
	210	3.0	39.5
	240	3.0	48.3
	270	3.0	54.0
328.15	130	3.0	11.9
	160	3.0	25.8
	180	3.0	33.1
	210	3.0	46.9
	240	3.0	59.6
	270	3.0	72.0
		Methanol	
318.15	130	3.0	15.3
	160	3.0	25.0
	180	3.0	31.3
	210	3.0	39.8
	240	3.0	50.1
	270	3.0	55.3
328.15	140	3.0	13.8
	160	3.0	22.4
	180	3.0	29.8
	210	3.0	42.5
	240	3.0	57.2
	270	3.0	61.1



Synonym: Cholesteryl benzoate
Source: Huang, Z.; Kawi, S.; Chiew, Y. C. *J. Supercrit. Fluids* (2004), 30(1), 25-39.

Cholesterol butyrate ($C_{31}H_{52}O_2$; MW=456.74) **[C-78]**

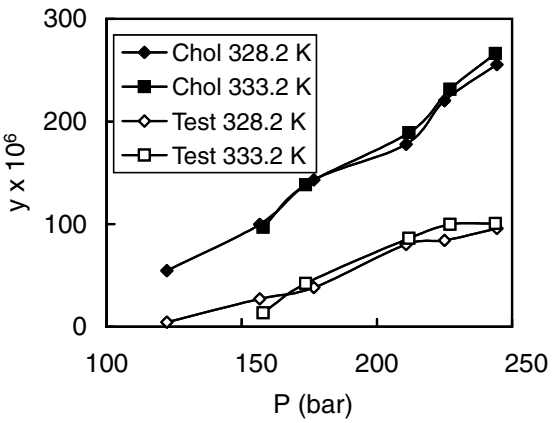
T (K)	P (bar)	y x 10^6
308.15	100	107
	120	216
	140	359
	160	432
	180	460
	210	570
	240	581
318.15	100	22
	120	146
	140	258
	160	378
	180	498
	210	672
	240	836
328.15	120	39
	140	145
	160	285
	180	415
	210	605
	240	893



Synonyms: Cholesterol butanoate; Cholesteryl butyrate
Source: Huang, Z.; Kawi, S.; Chiew, Y. C.
J. Supercrit. Fluids (2004), 30(1), 25-39.

Cholesterol (1) + Testosterone (2)Mixture[1)] **[C-79]**

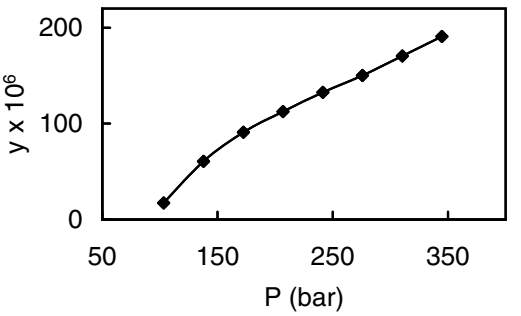
T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
328.2	122.3	54.8	4.5
	156.6	99.9	27.2
	176.7	143.3	38.4
	210.9	177.9	80.2
	225.0	220.3	84.2
	244.4	255.5	95.7
333.2	158.0	96.9	13.6
	173.7	138.4	42.3
	211.9	189.1	86.1
	227.1	231.3	99.7
	243.9	266.2	100.7



1: Solubility of each component was measured from the mixture.
Source: Kosal, E.; Lee, C. H.; Holder, G. D.
J. Supercrit. Fluids(1992), 5(3), 169-179.

Chromium tris(acetylacetonate) ($C_{15}H_{21}Cr_6O$; MW=349.32) **[C-80]**

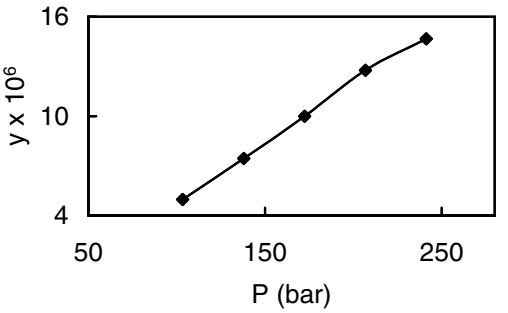
T (K)	P (bar)	y x 10^6
313.15	103.4	17.2
	137.9	60.7
	172.4	90.9
	206.8	112.7
	241.3	132.5
	275.8	150.3
	310.3	170.4
	344.7	190.9



Synonyms: $Cr(acac)_3$; Tris(pentane-2,4-dionato)chromium
Source: Lagalante,A.F.;Hansen,B.N.;Bruno,T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Chromium tris(3-bromoacetylacetonate) ($C_{15}H_{18}Br_3Cr_6O$; FW=586.01) **[C-81]**

T (K)	P (bar)	y x 10^6
313.15	103.4	5.0
	137.9	7.5
	172.4	10.0
	206.8	12.8
	241.3	14.7

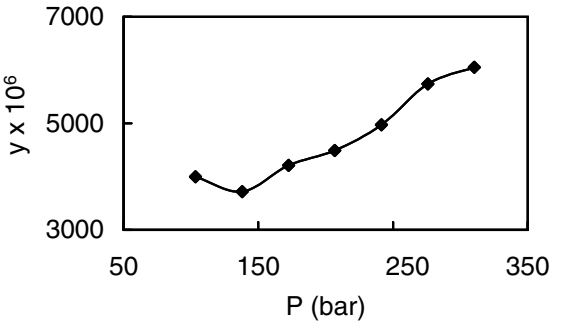


Synonyms: $Cr(acac\text{-}Br)_3$; Tris(3-bromopentane-2,4-dionato)chromium
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E.*Inorg. Chem.*(1995), 34(23), 5781-5785.

Chromium tris(2,2,6,6-tetramethylheptane-3,5-dionate) ($C_{33}H_{57}Cr_6O$; FW=601.81)

[C-82]

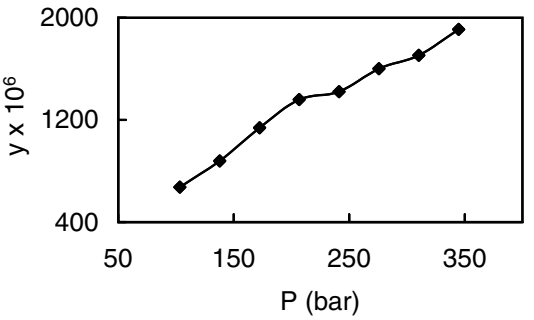
T (K)	P (bar)	y x 10^6
313.15	103.4	4000
	137.9	3720
	172.4	4210
	206.8	4490
	241.3	4970
	275.8	5740
	310.3	6050



Synonyms: $Cr(thd)_3$; Tris(2,2,6,6-tetramethylheptane-3,5-dionato)chromium
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E.*Inorg. Chem.*(1995), 34(23), 5781-5785.

Chromium*cis*-tris(1,1,1-trifluoroacetylacetonate) ($C_{15}H_{12}CrF_9O_6$; FW=511.24) **[C-83]**

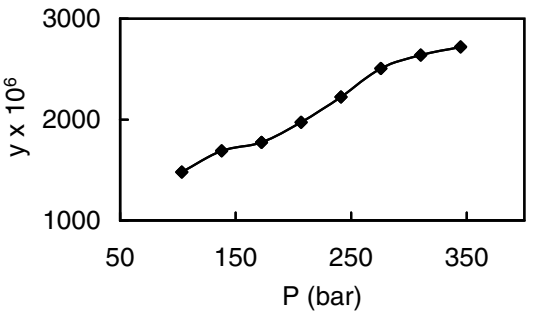
T (K)	P (bar)	y x 10^6
313.15	103.4	673
	137.9	878
	172.4	1139
	206.8	1359
	241.3	1422
	275.8	1601
	310.3	1707
	344.7	1908



Synonyms: *cis*-Cr(tfa)$_3$;*cis*-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium
Source: Lagalante, A.F.; Hansen, B.N.; Bruno,T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Chromium*trans*-tris(1,1,1-trifluoroacetylacetonate) ($C_{15}H_{12}CrF_9O_6$; FW=511.24) **[C-84]**

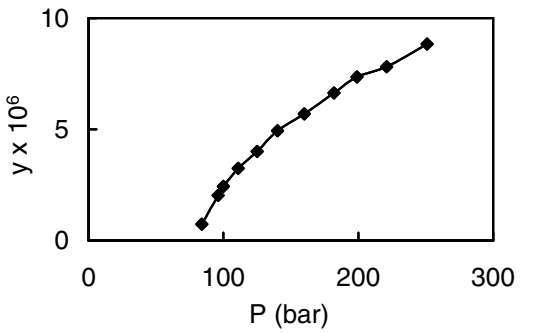
T (K)	P (bar)	y x 10^6
313.15	103.4	1479
	137.9	1691
	172.4	1773
	206.8	1974
	241.3	2224
	275.8	2506
	310.3	2638
	344.7	2721



Synonyms: trans-Cr(tfa)$_3$; trans-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Chrysene ($C_{18}H_{12}$; MW=228.29) **[C-85]**

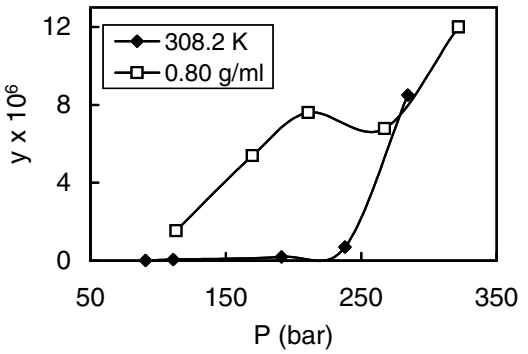
T (K)	P (bar)	y x 10^6
308.15	84	0.73
	96	2.03
	100	2.44
	111	3.24
	125	4.00
	140	4.93
	160	5.70
	182	6.63
	199	7.35
	221	7.82
	251	8.84



Synonym: 1,2-Benzophenanthrene
Source: Barna,L.; Blanchard, J.M.; Rauzy, E.; Berro, C. *J. Chem. Eng. Data* (1996), 41(6), 1466-1469.

Chrysene ($C_{18}H_{12}$; MW=228.29) **[C-86]**

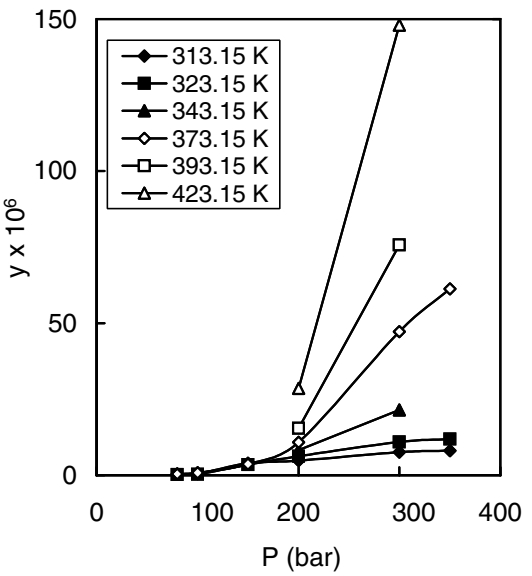
T[1] (K)	P[2] (bar)	y[1] x 10^6
308.2	91	0.01
	111	0.06
	191	0.20
	238	0.70
	284	8.50
ρ = constant (0.80 g/ml)		
303	113	1.54
314	170	5.40
323	211	7.61
334	267	6.79
345	322	12.0



1: Temperature (for constant density data) and solubility were obtained by digitizing the graph in the original article. May have large reading error as the source graph is small.
2: Calculated from temperature and density in the source graph (constant temperature data only).
Synonym: 1,2-Benzophenanthrene
Source: Burk, R.; Kruus, P.*Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

Chrysene ($C_{18}H_{12}$; MW=228.29) **[C-87]**

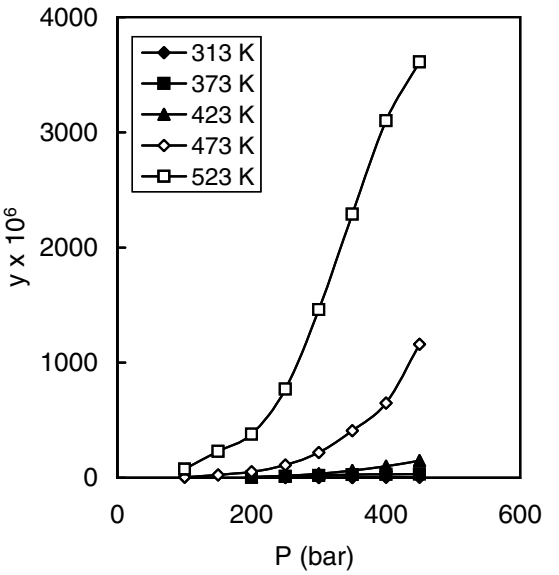
T (K)	P (bar)	y x 10^6
313.15	80	0.40
	100	0.45
	150	3.96
	200	4.83
	300	7.55
	350	8.00
323.15	80	0.20
	100	0.27
	150	3.47
	200	6.19
	300	10.9
	350	11.9
343.15	200	8.26
	300	21.40
373.15	80	0.42
	100	0.77
	150	3.67
	200	10.8
	300	47.2
	350	61.3
393.15	200	15.4
	300	75.7
423.15	200	28.5
	300	148.0



Synonym: 1,2-Benzophenanthrene
Source: Lou, X.; Janssen, H.-G.; Cramers, C. A. *J. Chromatogr. A* (1997),785(1-2), 57-64.

Chrysene ($C_{18}H_{12}$; MW=228.29) **[C-88]**

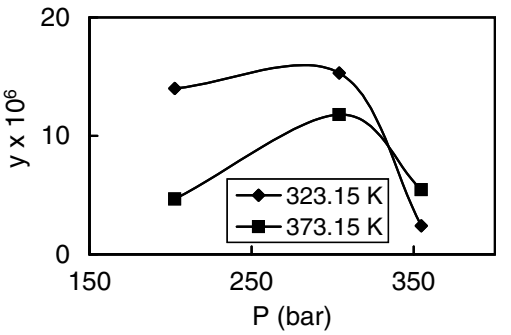
T (K)	P (bar)	y x 10^6
313	250	2.2
	300	2.7
	350	3.3
	400	4.1
	450	4.6
373	200	6.0
	250	12
	300	21
	350	27
	400	30
	450	33
423	200	7.0
	250	17
	300	35
	350	63
	400	100
	450	150
473	100	6.0
	150	25
	200	54
	250	110
	300	220
	350	410
	400	650
	450	1160
523	100	75
	150	230
	200	380
	250	770
	300	1460
	350	2290
	400	3100
	450	3610



Synonym: 1,2-Benzophenanthrene
Source: Miller, D.J.; Hawthorne, S.B.; Clifford, A. A.; Zhu, S. *J. Chem. Eng. Data* (1996), 41(4), 779-786.

C. I. Disperse Black 9 ($C_{16}H_{20}N_4O_2$; MW=300.36) **[C-89]**

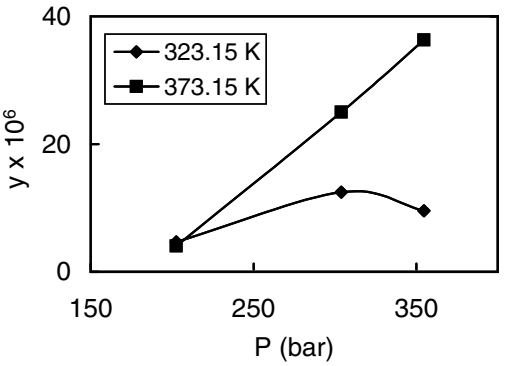
T (K)	P (bar)	y x 10^6
323.15	202.6	14.0
	303.9	15.3
	354.6	2.4
373.15	202.6	4.7
	303.9	11.8
	354.6	5.5



Synonym: 4-Amino-4'-[bis(*2*-hydroxyethyl)amino]azobenzene
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Blue 3[1)] ($C_{17}H_{16}N_2O_3$; MW=296.32) **[C-90]**

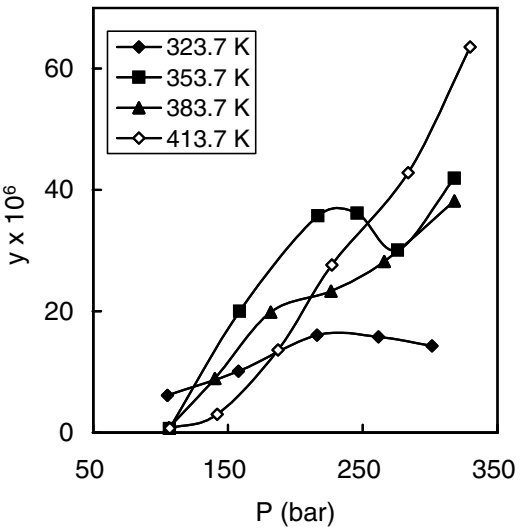
T (K)	P (bar)	y x 10^6
323.15	202.6	4.7
	303.9	12.5
	354.6	9.6
373.15	202.6	4.1
	303.9	25.0
	354.6	36.3



1: Mixture with unknown proportion of 2-hydroxyethyl and methyl derivatives.
synonym: 1,4-Diaminoanthraquinone, *N,N'*-mixed 2-hydroxyethyl and methyl derivatives
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Blue 3[1)] ($C_{17}H_{16}N_2O_3$; MW=296.32) **[C-91]**

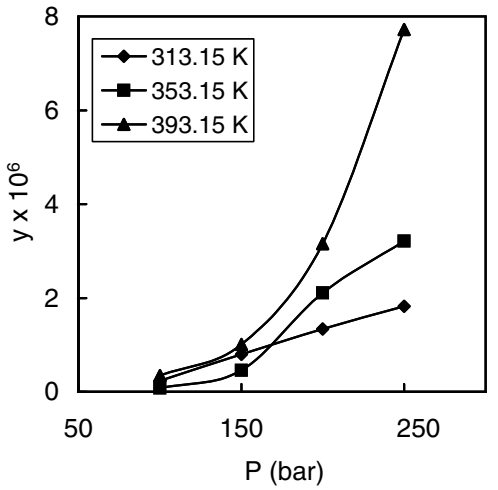
T (K)	P (bar)	y x 10^6
323.7	105.1	6.1
	157.8	10.1
	216.1	16.1
	261.7	15.8
	301.5	14.3
353.7	106.5	0.7
	158.7	20.0
	216.8	35.8
	245.8	36.2
	275.9	30.1
	318.1	41.9
383.7	106.2	0.8
	140.3	8.9
	181.8	19.9
	226.5	23.3
	266.0	28.2
	318.1	38.2
413.7	106.8	0.7
	142.1	3.0
	187.2	13.6
	227.2	27.6
	283.7	42.8
	329.8	63.6



1: Mixture with unknown proportion of 2-hydroxyethyl and methyl derivatives.
Synonym: 1,4-Diaminoanthraquinone, *N,N'*-mixed 2 hydroxyethyl and methyl derivatives
Source: Lee, J.W.; Park, M.W.; Bae, H.K. *Fluid Phase Equil.*(2000), 173(2), 277-284.

C. I. Disperse Blue 14 ($C_{16}H_{14}N_2O_2$; MW=266.30) **[C-92]**

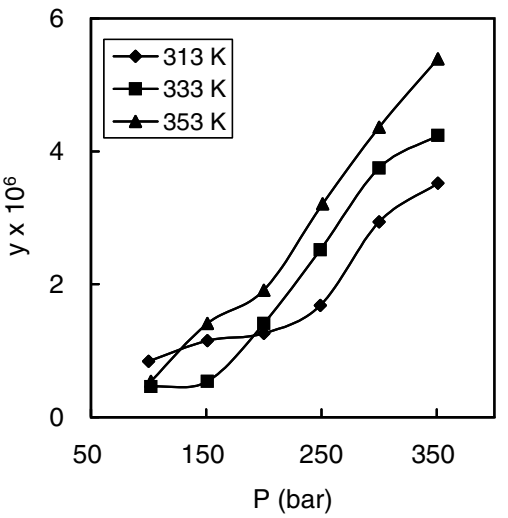
T (K)	P (bar)	y x 10^6
313.15	100	0.23
	150	0.80
	200	1.34
	250	1.82
353.15	100	0.08
	150	0.46
	200	2.11
	250	3.22
393.15	100	0.35
	150	1.01
	200	3.16
	250	7.72



Synonym: 1,4-Bis(methylamino)anthraquinone
Source: Joung, S. N.; Yoo, K.-P.
J. Chem. Eng. Data (1998), 43(1), 9-12.

C. I. Disperse Blue 14 ($C_{16}H_{14}N_2O_2$; MW=266.29) **[C-93]**

T (K)	P[1)] (bar)	y[1)] x 10^6
313	100	0.84
	151	1.15
	200	1.26
	249	1.68
	300	2.94
	351	3.52
333	102	0.46
	151	0.54
	200	1.41
	249	2.52
	300	3.75
	351	4.24
353	102	0.54
	151	1.41
	200	1.91
	251	3.21
	300	4.36
	351	5.39



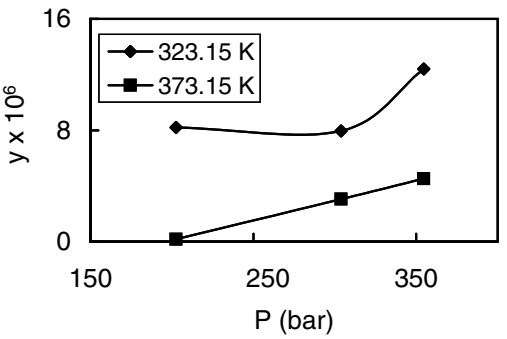
1: Obtained by digitizing the graph in the original article.
Synonym: 1,4-Bis(methylamino)anthraquinone
Source: Gordillo, M. D.; Pereyra, C.; Martinez de la Ossa, E. J. *J. Supercrit. Fluids*(2003), 27(1), 31-37.

C. I. Disperse Blue 27 ($C_{22}H_{16}N_2O_7$; MW=420.37) **[C-94]**

T (K)	P (bar)	y x 10^6
323.15	202.6	8.19
	303.9	7.95
	354.6	12.40
373.15	202.6	0.17
	303.9	3.06
	354.6	4.51

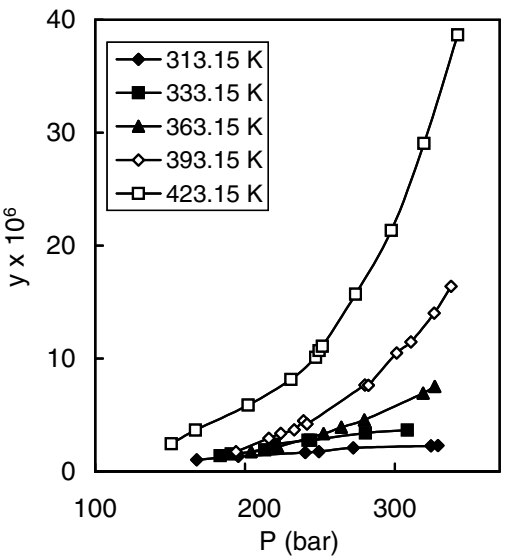
Synonym: 1,8-Dihydroxy-4-(*p*-2-hydroxyethylanilino)-5-nitroanthraquinone

Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Blue 60 ($C_{20}H_{17}N_3O_5$; MW=379.37) **[C-95]**

T(K)	P(bar)	y × 10^6
313.15	167.8	1.04
	195.6	1.33
	240.3	1.67
	249.4	1.76
	272.2	2.09
	324.1	2.27
	328.8	2.30
333.15	183.6	1.38
	190.9	1.54
	213.3	1.91
	219.7	2.39
	242.1	2.75
	243.9	2.77
	280.4	3.39
	308.4	3.65
363.15	204.1	1.74
	221.8	2.18
	252.5	3.34
	264.3	3.93
	279.6	4.57
	318.9	6.94
	326.6	7.53
393.15	194.1	1.75
	216.0	2.93
	224.0	3.37
	232.9	3.69
	239.0	4.48
	241.4	4.21
	280.0	7.65

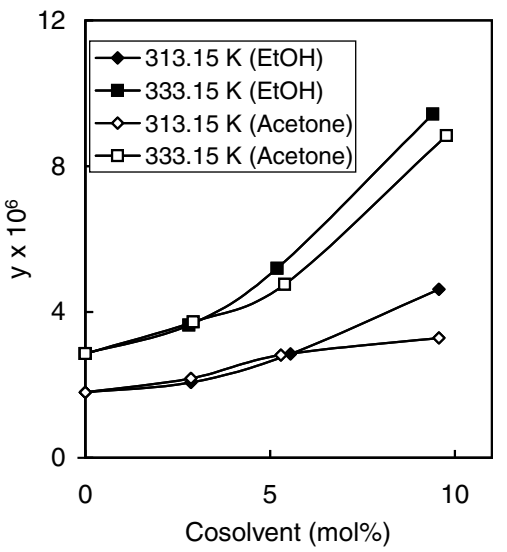


	282.4	7.64
	301.2	10.48
	310.7	11.48
	326.2	14.03
	337.6	16.39
423.15	150.8	2.46
	167.0	3.66
	202.1	5.88
	230.7	8.14
	247.3	10.10
	249.6	10.69
	251.7	11.08
	273.9	15.70
	297.7	21.33
	319.5	29.04
	342.0	38.67

Synonyms: C. I. Disperse Blue 99; 1,4-Diamino-*N*-(3-methoxypropyl)anthraquinone-2,3-dicarboximide
Source: Sung, H.-D.; Shim, J.-J. *J. Chem. Eng. Data* (1999), 44(5), 985-989.

C. I. Disperse Blue 60 ($C_{20}H_{17}N_3O_5$; MW=379.37) **[C-96]**

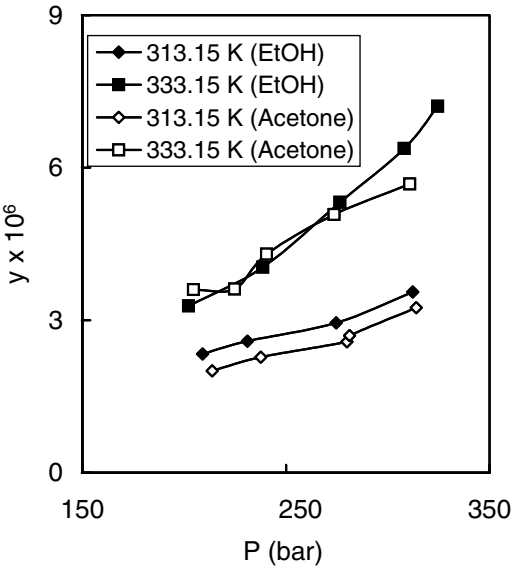
T (K)	P (bar)	Cosolvent (mol %)	y x 10^6
		Ethanol	
313.15	253	0.00	1.80
	253	2.86	2.07
	253	5.55	2.85
	253	9.57	4.62
333.15	253	0.00	2.86
	253	2.80	3.64
	253	5.19	5.20
	253	9.40	9.43
		Acetone	
313.15	253	0.00	1.80
	253	2.86	2.18
	253	5.29	2.82
	253	9.57	3.29
333.15	253	0.00	2.86
	253	2.92	3.73
	253	5.39	4.76
	253	9.77	8.84



Synonyms: C. I. Disperse Blue 99; 1,4-Diamino-*N*-(3-methoxypropyl)anthraquinone-2,3-dicarboximide
Source: Kim, C.-H.; Sung, H. D.; Lee, K.-H.; Bae, H.-K.; Shim, J.-J.*Theories and Applications of Chem. Eng.*(1999), 5(2), 2969-2972.

C. I. Disperse Blue 60 ($C_{20}H_{17}N_3O_5$; MW=379.37) **[C-97]**

T (K)	P (bar)	Cosolvent (mol %)	y x 10^6
		Ethanol	
313.15	209.0	4.3	2.34
	231.0	4.3	2.59
	274.7	4.3	2.95
	312.2	4.3	3.55
333.15	202.2	4.3	3.28
	238.7	4.3	4.04
	276.5	4.3	5.32
	308.1	4.3	6.38
	324.5	4.3	7.21
		Acetone	
313.15	213.7	4.3	2.01
	237.7	4.3	2.27
	280.0	4.3	2.58
	281.3		2.69
	314.0	4.3	3.25
333.15	204.6	4.3	3.60
	224.8	4.3	3.61
	240.5	4.3	4.30
	273.6	4.3	5.08
	310.8	4.3	5.68



Synonyms: C. I. Disperse Blue 99; 1,4-Diamino-*N*-(3-methoxypropyl)anthraquinone-2,3-dicarboximide

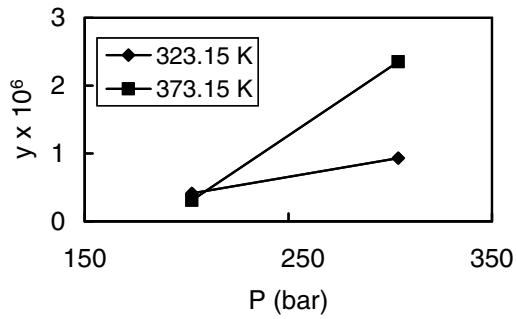
Source: Kim, C.-H.; Sung, H. D.; Lee, K.-H.; Bae, H.-K.; Shim, J.-J. *Theories and Applications of Chem. Eng.*(1999), 5(2), 2969-2972.

C. I. Disperse Blue 60S[1)] (MW=379) **[C-98]**

T (K)	P (bar)	y x 10^6
323.15	202.6	0.41
	303.9	0.93
373.15	202.6	0.31
	303.9	2.35

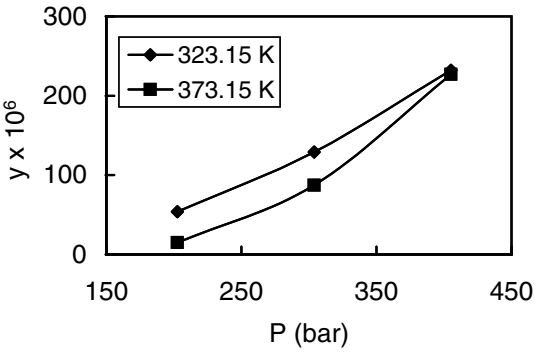
1: The molecular formula is not known for this compound.

Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Blue 77 ($C_{20}H_{12}N_2O_6$; MW=376.32) **[C-99]**

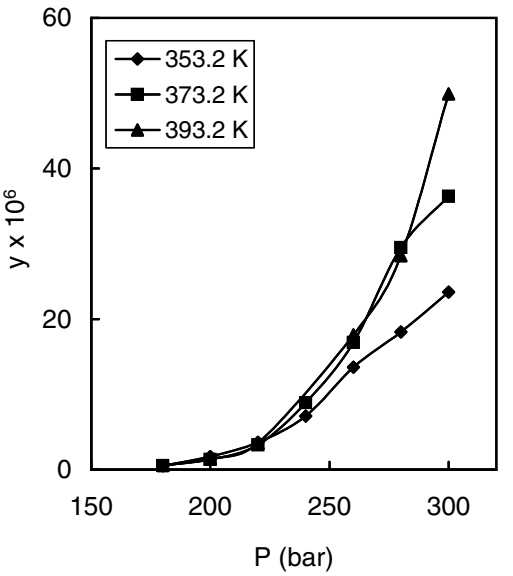
T (K)	P (bar)	y x 10^6
323.15	202.6	53.8
	303.9	129.0
	405.2	232.0
373.15	202.6	15.0
	303.9	87.3
	405.2	227.0



Synonym: 1-Anilino-4,5-dihydroxy-8-nitroanthraquinone
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Blue 79 ($C_{24}H_{27}BrN_6O_{10}$; MW=639.42) **[C-100]**

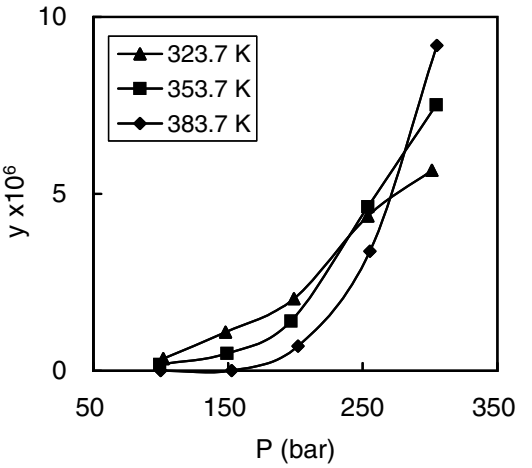
T (K)	P (bar)	y x 10^6
353.2	180	0.52
	200	1.73
	220	3.65
	240	7.11
	260	13.60
	280	18.30
	300	23.60
373.2	180	0.54
	200	1.36
	220	3.30
	240	8.88
	260	16.90
	280	29.50
	300	36.30
393.2	180	0.54
	200	1.44
	220	3.50
	260	17.90
	280	28.40
	300	49.90



Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-bromo-4,6-dinitrophenyl)azo]-4-ethoxyphenyl]acetamide
Source: Ferri, A.; Banchero, M.; Manna, L.; Sicardi,S. *J. Supercrit. Fluids* (2004), 30(1), 41-49.

C. I. Disperse Blue 79 ($C_{24}H_{27}BrN_6O_{10}$; MW=639.42) **[C-101]**

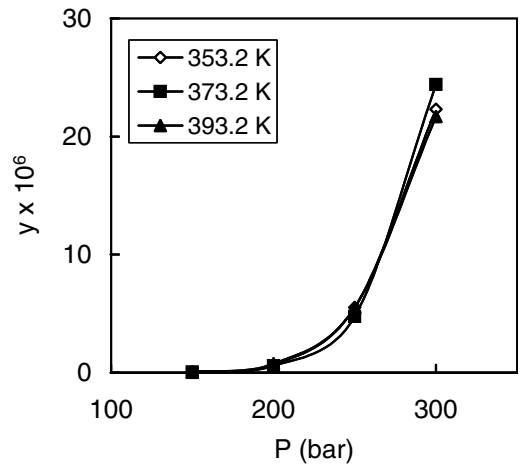
T (K)	P (bar)	y x 10^6
323.7	101.9	0.34
	148.1	1.09
	198.9	2.04
	253.9	4.38
	301.3	5.67
353.7	99.2	0.18
	149.2	0.49
	196.7	1.41
	253.9	4.64
	304.7	7.52
383.7	99.9	0.01
	152.7	0.01
	202.0	0.70
	255.3	3.38
	305.1	9.19



Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-bromo-4,6-dinitrophenyl)azo]-4-ethoxyphenyl]acetamide
Source: Lee, J. W.; Park, M. W.; Bae, H. K. *Fluid Phase Equil.*(2000), 173(2), 277-284.

C. I. Disperse Blue 79 ($C_{24}H_{27}BrN_6O_{10}$; MW=639.42) **[C-102]**

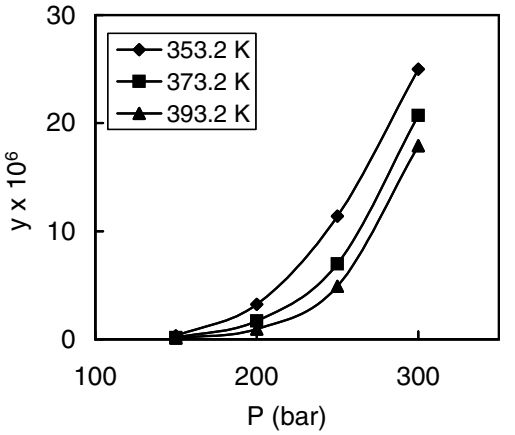
T (K)	P (bar)	y x 10^6
353.2	150	0.06
	200	0.67
	250	5.52
	300	22.30
373.2	150	0.06
	200	0.59
	250	4.75
	300	24.40
393.2	150	0.03
	200	0.77
	250	5.52
	300	21.70



Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-bromo-4,6-dinitrophenyl) azo]-4-ethoxyphenyl]acetamide
Source: Lin, H.-m.; Liu, C.-Y.; Cheng, C.-H.; Chen, Y.-T.; Lee, M.-J. *J. Supercrit. Fluids* (2001), 21(1), 1-9.

C. I. Disperse Blue 79:1 ($C_{23}H_{25}BrN_6O_{10}$; MW=625.38) **[C-103]**

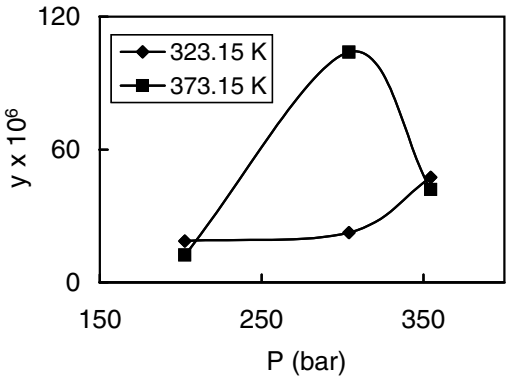
T (K)	P (bar)	y x 10^6
353.2	150	0.33
	200	3.24
	250	11.40
	300	25.00
373.2	150	0.15
	200	1.71
	250	6.97
	300	20.70
393.2	150	0.10
	200	0.94
	250	4.89
	300	17.90



Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-bromo-4,6-dinitrophenyl) azo]-4-methoxyphenyl]acetamide
Source: Lin, H.-m.; Ho, C.-C.; Lee, M.-J. *J. Supercrit. Fluids*(2004), 32(1-3), 105-114.

C. I. Disperse Blue 79:1 ($C_{23}H_{25}BrN_6O_{10}$; MW=625.38) **[C-104]**

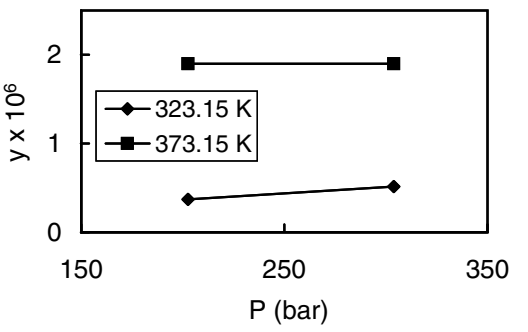
T (K)	P (bar)	y x 10^6
323.15	202.6	18.7
	303.9	22.5
	354.6	47.5
373.15	202.6	12.4
	303.9	104.0
	354.6	41.9



Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-bromo-4,6-dinitrophenyl) azo]-4-methoxyphenyl]acetamide
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Blue 102 ($C_{15}H_{19}SN_5O_4$; MW=365.41[1)]) **[C-105]**

T (K)	P (bar)	y x 10^6
323.15	202.6	0.37
	303.9	0.52
373.15	202.6	1.90
	303.9	1.90



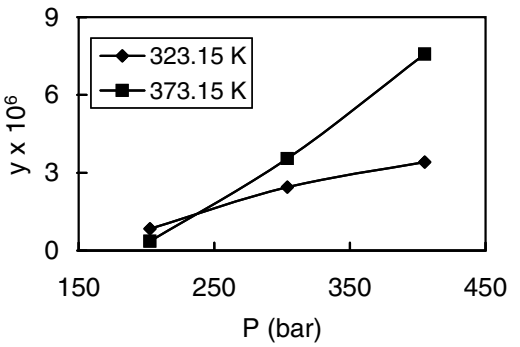
1: This is the MW in SciFinder, while that in the source article is 353.
Synonym: 3-[Ethyl[3-methyl-4-[C5-nitro-2-thiazolyl)azo]phenyl]amino]-1,2-propanediol
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Blue 118 ($C_{20}H_{14}N_2O_4$; MW=346.34) **[C-106]**

T (K)	P (bar)	yx 10^6
323.15	202.6	0.84
	303.9	2.45
	405.2	3.41
373.15	202.6	0.36
	303.9	3.55
	405.2	7.57

Synonym: 1-Amino-4,5-dihydroxy-8-(phenylamino)anthraquinone

Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

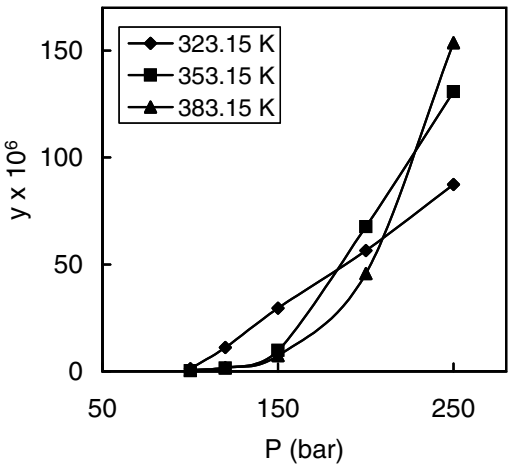


C. I. Disperse Blue 134 ($C_{20}H_{22}N_2O_2$; MW=322.40) **[C-107]**

T (K)	P (bar)	y x 10^6
323.15	100	1.2
	120	11.1
	150	29.6
	200	56.5
	250	87.4
353.15	100	0.3
	120	1.4
	150	9.8
	200	67.7
	250	130.8
383.15	100	0.6
	120	1.7
	150	7.4
	200	45.7
	250	153.6

Synonym: 1,4-Bis(isopropylamino)anthraquinone

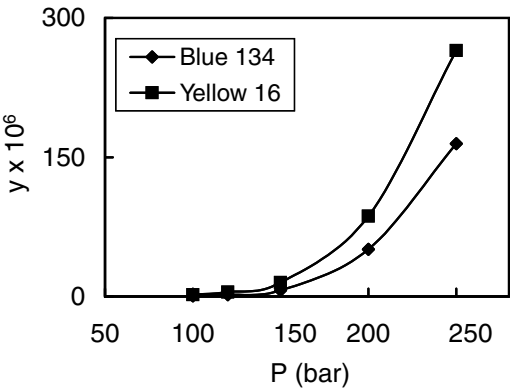
Source: Tamura, K.; Shinoda, T. *Fluid Phase Equil.*(2004), 219(1), 25-32.



C. I. Disperse Blue 134 (1) + C. I. Disperse Yellow 16 (2) Mixture **[C-108]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
383.15	100	0.57	1.83
	120	1.76	4.83
	150	6.62	14.95
	200	50.91	86.52
	250	164.60	264.9

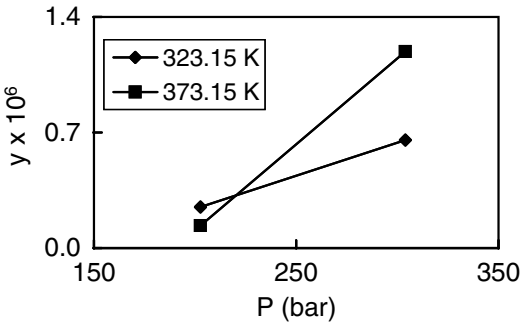
Source: Tamura, K.; Shinoda, T. *Fluid Phase Equil.*(2004), 219(1), 25-32.



C. I. Disperse Blue 165:1 ($C_{19}H_{19}N_7O_5$; MW=425.40) **[C-109]**

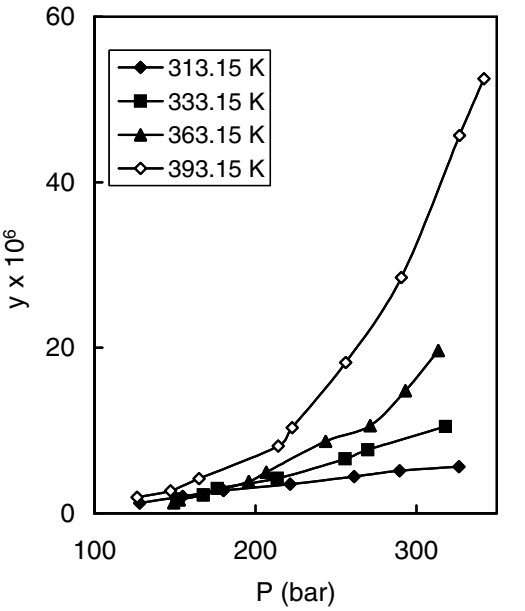
T (K)	P (bar)	y x 10^6
323.15	202.6	0.25
	303.9	0.65
373.15	202.6	0.14
	303.9	1.19

Synonym: *N*-[2-[(2-Cyano-4,6-dinitrophenyl) azo]-5-(diethylamino)phenyl]acetamide
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000) 45(3), 177-183.



C. I. Disperse Blue 291 ($C_{19}H_{21}BrN_6O_6$; MW=509.31) **[C-110]**

T (K)	P (bar)	y x 10^6
313.15	128.1	1.24
	154.9	2.03
	180.1	2.75
	221.6	3.52
	261.3	4.44
	289.5	5.14
	326.4	5.62
333.15	151.2	1.71
	167.7	2.23
	176.3	2.99
	213.6	4.22
	255.8	6.59
	269.9	7.66
	318.2	10.49
363.15	149.2	1.25
	152.6	1.62
	167.7	2.25
	195.8	3.83
	206.8	4.97
	243.6	8.69
	271.3	10.59
	293.2	14.79
	313.7	19.67
393.15	126.4	1.92
	147.2	2.72
	164.9	4.19
	214.2	8.11
	222.8	10.35

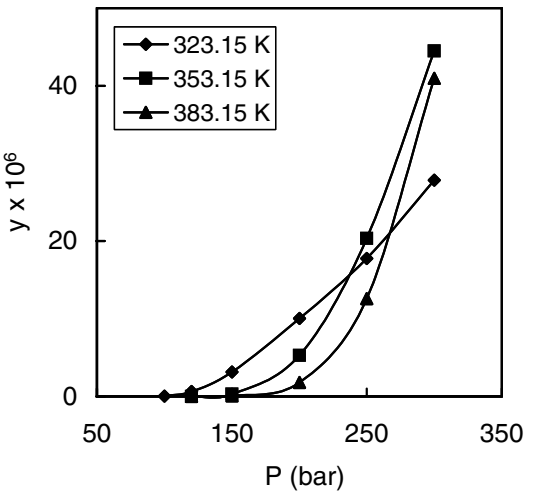


256.2	18.23
290.7	28.49
326.9	45.66
342.1	52.51

Synonym: *N*-[2-[(2-Bromo-4,6-dinitrophenyl)azo]-5-(diethylamino)-4-methoxyphenyl]acetamide
Source: Shim, J.-J.; Baek, J.-K.; Sung, H.-D.; Lee, K.-H.; Choi, J.-H. Proceedings of the 6th Conference on Supercritical Fluids and Their Applications, Maiori, Italy, (Sep. 12, 2001), 565-570. (Data from Baek's thesis).

C. I. Disperse Blue 354 ($C_{31}H_{37}SN_3O_2$; MW=515.71) **[C-111]**

T (K)	P (bar)	y x 10^6
323.15	100	0.02
	120	0.63
	150	3.16
	200	10.03
	250	17.77
	300	27.84
353.15	120	0.01
	150	0.32
	200	5.28
	250	20.36
	300	44.48
383.15	120	0.01
	150	0.08
	200	1.80
	250	12.61
	300	40.95

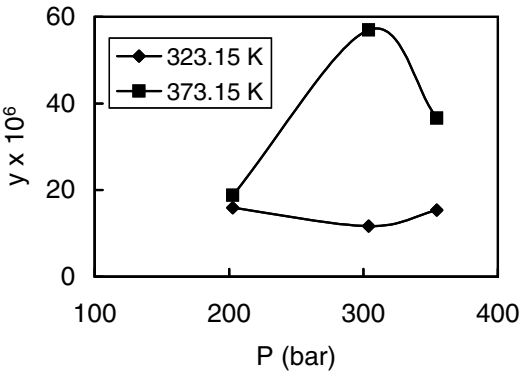


Synonym: [2-[[4-(Dihexylamino)-2-methylphenyl] methylene]-1,1-dioxidobenzo[b]thien-3(2*H*)-ylidene] propanedinitrile
Source: Shinoda, T.; Tamura, K. *J. Chem. Eng. Data* (2003), 48(4), 869-873.

C. I. Disperse Brown 22[1)] (MW=399) **[C-112]**

T (K)	P (bar)	y x 10^6
323.15	202.6	15.9
	303.9	11.7
	354.6	15.4
373.15	202.6	18.8
	303.9	57.0
	354.6	36.6

1: The molecular formula is not known for this material.
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



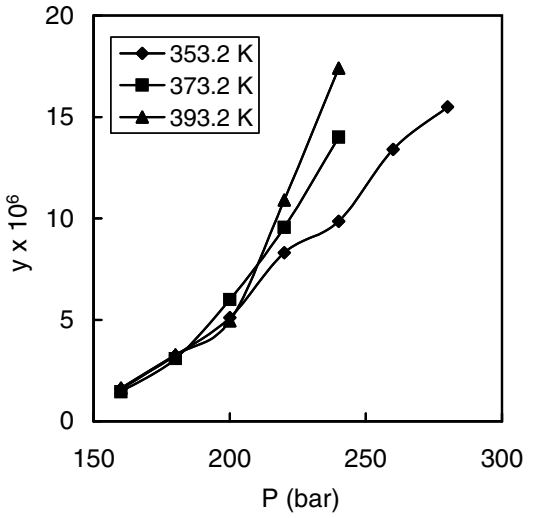
C. I. Disperse Dyes **[C-113]**

Dye Index Number	Name of the compounds	T (K)	P (bar)	y x 10^6
C. I. Disperse Blue 79:1[1)]	2-(Acetylamino)-4-(*N*,*N*-bis(acetoxyethyl) amino)-5-ethoxy-2',4',6'-trinitroazobenzene	353.15	200	1.13
C. I. Disperse Orange 1	4-(*N*-Phenylamino)-4'-nitroazobenzene	353.15	200	2.91
C. I. Disperse Orange 3	4-Amino-4'-nitroazobenzene	353.15	200	3.99
C. I. Disperse Orange 25	4-[*N*-(2-Cyanoethyl)-*N*-ethylamino]-4'-nitroazobenzene	353.15	200	1.31
C. I. Disperse Orange 30	4-[(2,6-Dichloro-4-nitrophenyl)azo]-*N*-(cyanoethyl)-*N*-(acetoxyethyl)aniline	353.15	200	5.70
C. I. Disperse Red 60	1-Amino-4-hydroxy-2-phenoxyanthraquinone	353.15	200	3.76

1: Though, in the source, the compound was named "C.I. Disperse Blue 79:1,"it must be a different material because, in the SciFinder, C. I. Disperse Blue 79:1 is shown to be 4-(6-Bromo-2,4-dinitrophenylazo)-3-acetylamino-6-methoxy-*N*-bis(acetoxyethyl)aniline.
Source: Oezcan, A. S.; Clifford, A. A.; Bartle, K. D.; Lewis, D. M. *J. Chem. Eng. Data* (1997), 42(3), 590-592.

C. I. Disperse Orange 3 ($C_{12}H_{10}N_4O_2$; MW=242.24) **[C-114]**

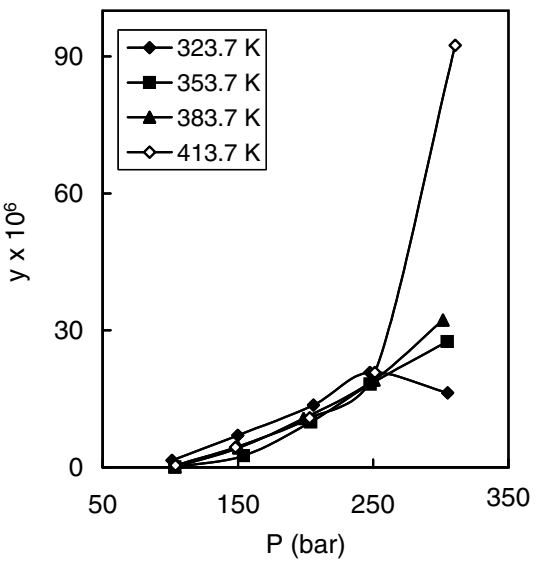
T (K)	P (bar)	y x 10^6
353.2	160	1.59
	180	3.24
	200	5.11
	220	8.31
	240	9.86
	260	13.40
	280	15.50
373.2	160	1.45
	180	3.09
	200	6.00
	220	9.56
	240	14.00
393.2	160	1.63
	180	3.27
	200	4.95
	220	10.90
	240	17.40



Synonyms: 4-(4-Nitrophenylazo)aniline; 4-Amino-4'-nitroazobenzene
Source: Ferri, A.; Banchero, M.; Manna, L.; Sicardi, S. *J. Supercrit. Fluids* (2004), 30(1), 41-49.

C. I. Disperse Orange 3 ($C_{12}H_{10}N_4O_2$; MW=242.24) **[C-115]**

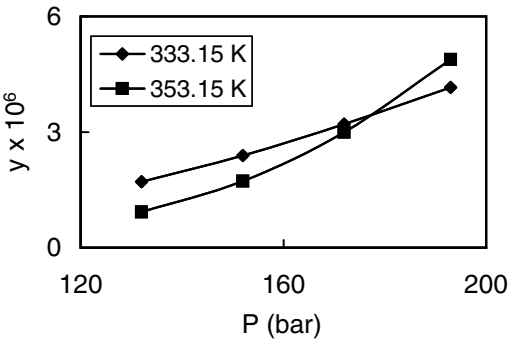
T (K)	P (bar)	y x 10^6
323.7	101.3	1.52
	149.8	6.98
	205.8	13.66
	247.5	20.76
	305.0	16.34
353.7	103.3	0.09
	154.2	2.56
	203.9	9.92
	247.8	18.22
	304.7	27.52
383.7	103.4	0.13
	150.4	4.24
	198.5	10.69
	250.6	19.11
	301.6	32.24
413.7	103.7	0.45
	148.1	4.40
	203.0	10.86
	251.3	20.78
	310.6	92.44



Synonyms: 4-(4-Nitrophenylazo)aniline; 4-Amino-4'-nitroazobenzene
Source: Lee, J. W.; Min, J. M.; Bae, H. K. *J. Chem . Eng. Data* (1999), 44(4), 684-687.

C. I. Disperse Orange 11($C_{15}H_{11}NO_2$; MW=237.26) **[C-116]**

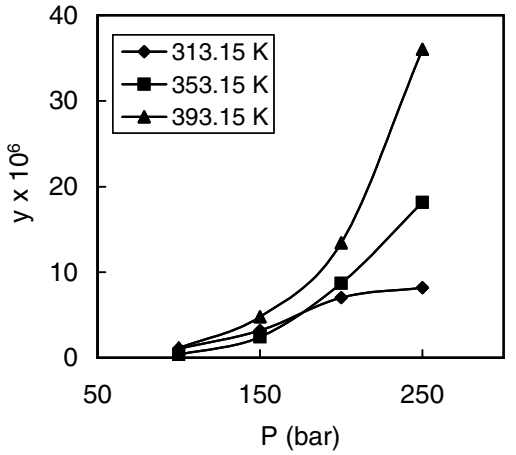
T (K)	P (bar)	y × 10^6
333.15	132	1.71
	152	2.39
	172	3.21
	193	4.16
353.15	132	0.93
	152	1.73
	172	3.00
	193	4.88



Synonym: 1-Amino-2-methylanthraquinone
Source: Guzel, B.; Akgerman, A.
J. Chem. Eng. Data (1999), 44(1), 83-85.

C. I. Disperse Orange 11 ($C_{15}H_{11}NO_2$; MW=237.26) **[C-117]**

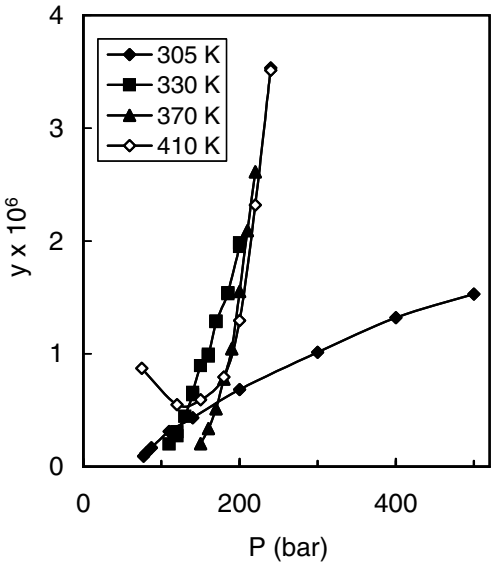
T (K)	P (bar)	y x 10^6
313.15	100	1.08
	150	3.19
	200	7.02
	250	8.20
353.15	100	0.36
	150	2.46
	200	8.71
	250	18.14
393.15	100	1.17
	150	4.81
	200	13.44
	250	36.03



Synonym: 1-Amino-2-methylanthraquinone
Source: Joung, S. N.; Yoo, K.-P.
J. Chem. Eng. Data (1998), 43(1), 9-12.

C. I. Disperse Orange 13 ($C_{22}H_{16}ON_4$; MW=352.39) **[C-118]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
305	77	1.3	0.09
	80	1.8	0.12
	87	2.7	0.17
	110	5.5	0.31
	140	8.1	0.43
	200	13.7	0.68
	300	21.7	1.01
	400	29.5	1.32
	500	35.3	1.53
330	110	1.8	0.20
	120	3.0	0.27
	120	3.4	0.31
	130	5.6	0.45
	140	8.7	0.64
	140	9.0	0.66
	150	13.0	0.90
	160	15.1	0.99
	160	14.9	0.98
	170	20.3	1.29
	170	20.2	1.28
	185	25.1	1.53
	185	25.3	1.54
	200	33.0	1.95
	200	33.6	1.98
370	150	1.6	0.20
	160	2.9	0.34
	170	4.8	0.51
	180	7.8	0.78
	190	11.2	1.04
	200	17.6	1.55
	210	24.9	2.09
	220	32.5	2.61
410	75	2.2	0.87
	120	2.4	0.55
	150	3.4	0.59
	180	5.7	0.80
	200	10.5	1.30
	220	20.9	2.32
	240	34.9	3.53
	240	34.7	3.51



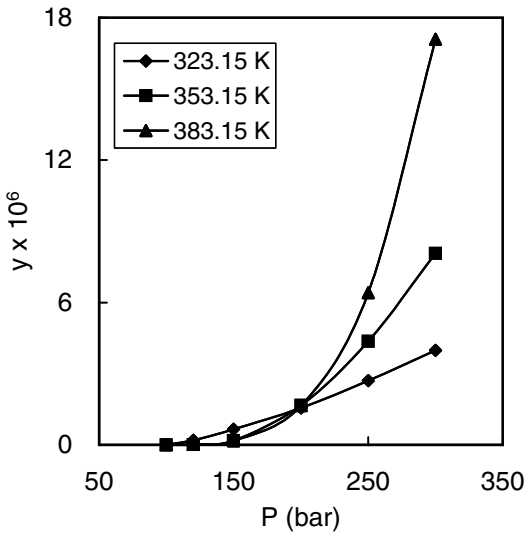
1: Calculated from M.

Synonym: 4-[4-(Phenylazo)-1-naphthylazo]phenol

Sources: Haarhaus, U.; Swidersky, P.; Schneider, G. M. *J. Supercrit. Fluids* (1995), 8, 100-106.
Another source (: Haarhaus, U., Sc.D. Thesis, University of Bochum, Bochum, Germany, 1992.)

C. I. Disperse Orange 25 ($C_{17}H_{17}N_5O_2$; MW=323.35) **[C-119]**

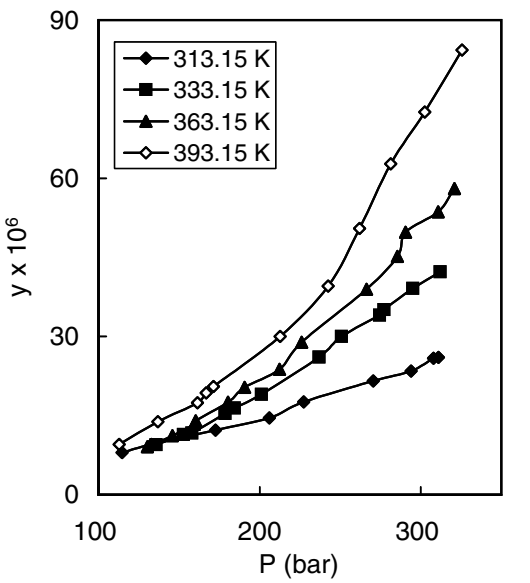
T (K)	P (bar)	y x 10^6
323.15	100	0.013
	120	0.191
	150	0.660
	200	1.556
	250	2.705
	300	3.991
353.15	100	0.002
	120	0.014
	150	0.187
	200	1.662
	250	4.360
	300	8.062
383.15	100	0.009
	120	0.029
	150	0.176
	200	1.661
	250	6.413
	300	17.090



Synonym: 4-[*N*-(2-Cyanoethyl)-*N*-ethylamino]-4'-nitroazobenzene
Source: Shinoda, T.; Tamura, K. *J. Chem. Eng. Data* (2003), 48(4), 869-873.

C. I. Disperse Orange 30 ($C_{19}H_{17}Cl_2N_5O_4$; MW=450.27) **[C-120]**

T (K)	P (bar)	y x 10^6
313.15	114.6	8.01
	132.8	9.57
	172.7	12.24
	206.1	14.59
	227.3	17.58
	270.5	21.56
	294.0	23.44
	308.0	25.90
	310.9	26.05
333.15	135.7	9.51
	152.7	11.40
	158.0	11.68
	178.5	15.38
	184.4	16.45
	201.2	19.02
	237.0	26.12
	250.9	30.01
	274.5	34.06
	277.2	35.11
	295.1	39.11
	312.0	42.25

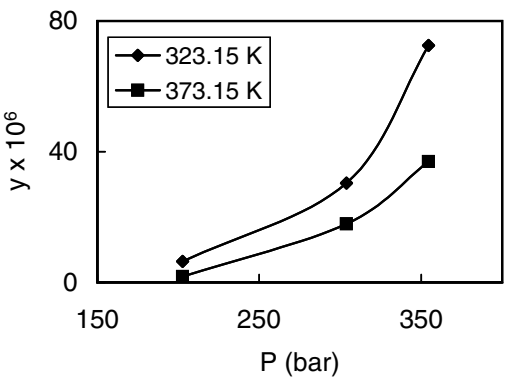


363.15	130.3	9.09
	145.8	11.20
	159.5	13.34
	160.3	14.02
	180.3	17.54
	190.6	20.34
	212.3	23.81
	226.1	28.89
	266.4	38.98
	285.6	45.20
	290.5	49.78
	310.8	53.63
	321.0	58.03
393.15	112.8	9.56
	136.8	13.85
	161.5	17.45
	166.9	19.32
	171.3	20.50
	212.8	30.01
	242.5	39.56
	262.0	50.48
	281.3	62.74
	302.5	72.56
	325.7	84.32

Synonym: 4-[(2,6-Dichloro-4-nitrophenyl)azo]-*N*-(cyanoethyl)-*N*-(acetoxyethyl)aniline
Source: Baek, J.-K.; Kim, S.; Lee, G.-S.; Shim, J.-J. *Korean J. Chem. Eng.* (2004), 21(1), 230-235.

C. I. Disperse Orange 30 ($C_{19}H_{17}Cl_2N_5O_4$; MW=450.28) **[C-121]**

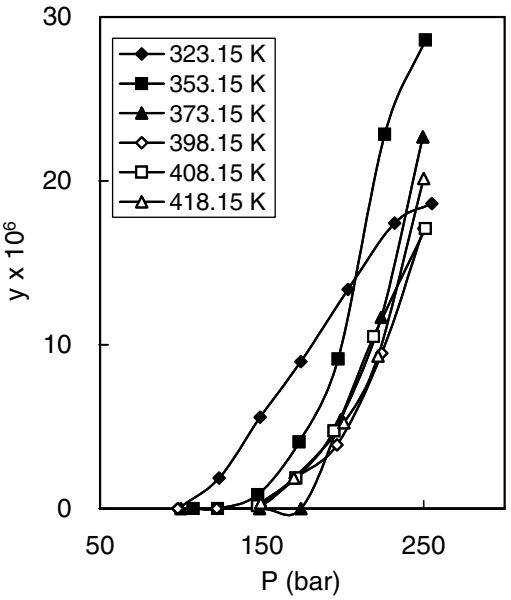
T (K)	P (bar)	y x 10^6
323.15	202.6	6.38
	303.9	30.40
	354.6	72.50
373.15	202.6	1.75
	303.9	17.90
	354.6	37.00



Synonym: 4-[(2,6-Dichloro-4-nitrophenyl)azo]-*N*-(cyanoethyl)-*N*-(acetoxyethyl)aniline
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Orange 33[1)] **[C-122]**

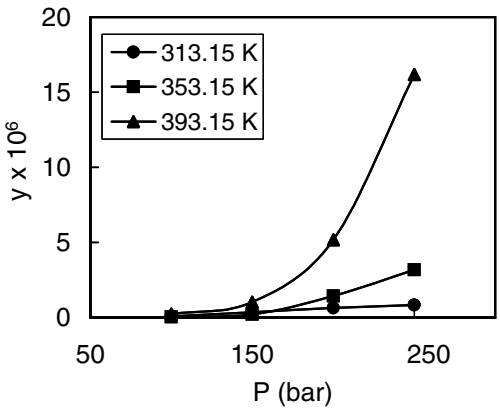
T (K)	P[2)] (bar)	y[2)] x 10^6
323.15	98	0.00
	124	1.86
	149	5.58
	174	8.97
	203	13.37
	232	17.43
	255	18.62
353.15	108	0.00
	123	0.00
	148	0.85
	173	4.06
	197	9.14
	226	22.85
	251	28.60
373.15	100	0.00
	149	0.00
	174	0.00
	199	5.42
	224	11.68
	249	22.68
398.15	98	0.00
	122	0.00
	149	0.17
	170	1.86
	196	3.89
	224	9.48
	250	17.09
408.15	147	0.17
	171	1.86
	195	4.74
	219	10.49
	251	17.09
418.15	149	0.34
	170	1.86
	201	5.25
	222	9.31
	250	20.14



1: The molecular structure of this compound is not known.
2: Obtained by digitizing the graph in the original article.
Source: Tabata, I.; Lyu, J.; Cho, S.; Tominaga, T.; Hori, T. *Coloration Tech.* (2001), 117(6), 346-351.

C. I. Disperse Red 1 ($C_{16}H_{18}N_4O_3$; MW=314.35) **[C-123]**

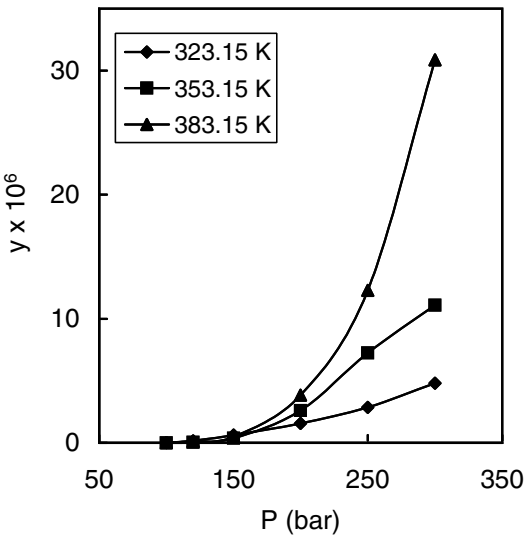
T (K)	P (bar)	y x 10^6
313.15	100	0.08
	150	0.34
	200	0.64
	250	0.83
353.15	100	0.05
	150	0.21
	200	1.43
	250	3.18
393.15	100	0.24
	150	1.02
	200	5.18
	250	16.19



Synonym: *N*-Ethyl-*N*-(2-hydroxyethyl)-4-[(*p*-nitrophenyl)azo]aniline
Source: Joung, S. N.; Yoo, K.-P. *J. Chem. Eng. Data* (1998), 43(1), 9-12.

C. I. Disperse Red 1 ($C_{16}H_{18}N_4O_3$; MW=314.35) **[C-124]**

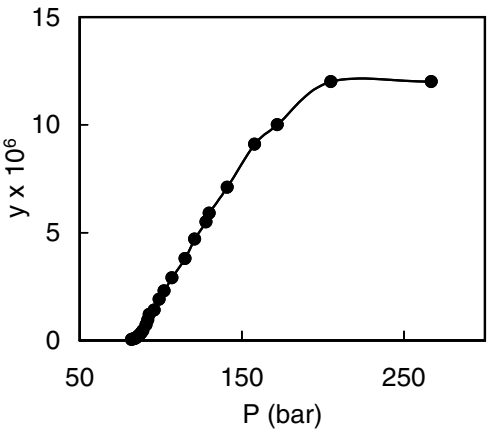
T (K)	P (bar)	y x 10^6
323.15	100	0.02
	120	0.16
	150	0.64
	200	1.58
	250	2.85
	300	4.81
353.15	100	0.01
	120	0.05
	150	0.39
	200	2.61
	250	7.26
	300	11.10
383.15	100	0.02
	120	0.11
	150	0.49
	200	3.84
	250	12.30
	300	30.86



Synonym: *N*-Ethyl-*N*-(2-hydroxyethyl)-4-[(*p*-nitrophenyl)azo]aniline
Source: Shinoda, T.; Tamura, K.*Fluid Phase Equil.* (2003), 213(1-2), 115-123.

C. I. Disperse Red 1 ($C_{16}H_{18}N_4O_3$; MW=314.35) **[C-125]**

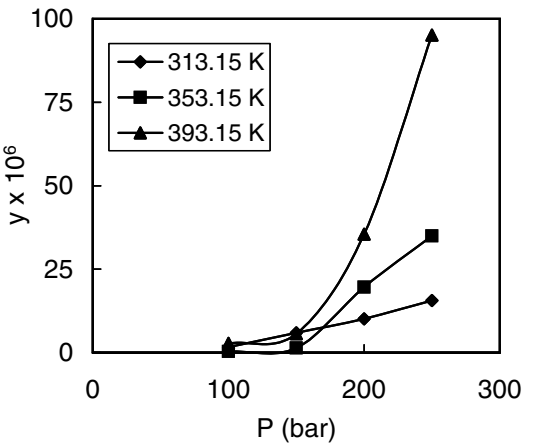
T (K)	P[1] (bar)	$y^{1)} \times 10^6$
313	82	0.05
	83	0.07
	84	0.09
	85	0.12
	86	0.19
	87	0.25
	88	0.35
	89	0.44
	91	0.72
	92	0.95
	93	1.20
	96	1.40
	99	1.90
	102	2.30
	107	2.90
	115	3.80
	121	4.70
	128	5.50
	130	5.90
	141	7.10
	158	9.10
	172	10.00
	205	12.00
	267	12.00



1: Obtained by digitizing the graph in the original article.
Synonym: *N*-Ethyl-*N*-(2-hydroxyethyl)-4-[(*p*-nitrophenyl)azo]aniline
Source: West, B. L.; Kazarian, S. G.; Vincent, M. F.; Brantley, N. H.; Eckert, C. A. *J. App. Polym. Sci.* (1998), 69(5), 911-919.

C. I. Disperse Red 9 ($C_{15}H_{11}NO_2$; MW=237.25) **[C-126]**

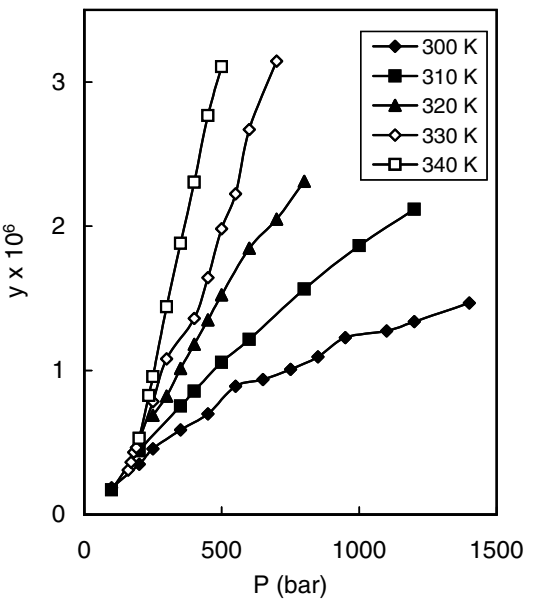
T (K)	P (bar)	y x 10^6
313.15	100	1.66
	150	5.96
	200	10.09
	250	15.58
353.15	100	0.38
	150	1.39
	200	19.61
	250	35.00
393.15	100	2.80
	150	5.65
	200	35.46
	250	95.16



Synonym: 1-(Methylamino)anthraquinone
Source: Joung, S. N.; Yoo, K.-P. *J. Chem. Eng. Data* (1998), 43(1), 9-12.

C. I. Disperse Red 11 ($C_{15}H_{12}N_2O_3$; MW=268.27) **[C-127]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
300	100	3.4	0.19
	200	7.2	0.35
	250	9.7	0.46
	350	13.1	0.59
	450	16.1	0.70
	550	21.1	0.89
	650	22.7	0.94
	750	24.9	1.01
	850	27.5	1.09
	950	31.3	1.23
	1100	33.1	1.27
	1200	35.2	1.34
	1400	39.4	1.47
310	100	2.7	0.17
	200	8.6	0.44
	350	16.2	0.75
	400	18.8	0.86
	500	24.0	1.05
	600	28.4	1.21
	800	38.2	1.57
	1000	47.0	1.86
	1200	54.8	2.12
320	250	13.3	0.69
	300	16.5	0.82
	350	21.0	1.01
	400	25.1	1.18
	450	29.3	1.35
	500	33.7	1.52
	600	42.1	1.85
	700	47.9	2.05
	800	55.2	2.31
330	160	4.7	0.31
	170	5.7	0.36
	180	7.0	0.43
	190	7.7	0.46
	250	14.3	0.78
	300	20.7	1.08
	400	27.9	1.36
	450	34.5	1.64
	500	42.5	1.98
	550	48.6	2.22
	600	59.3	2.67

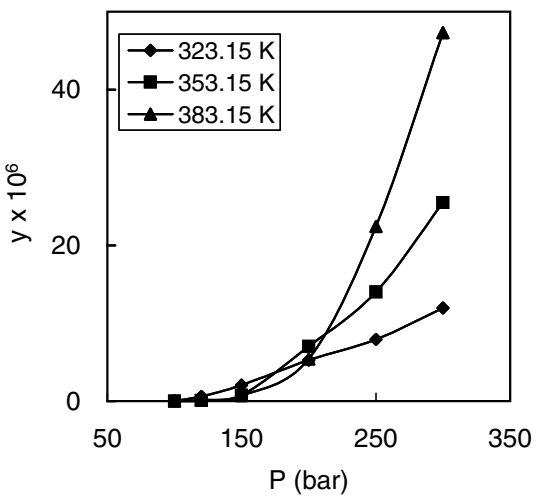


	700	71.8	3.14
340	200	8.2	0.53
	235	13.8	0.82
	250	16.4	0.96
	300	26.3	1.44
	350	35.9	1.88
	400	45.5	2.30
	450	56.2	2.77
	500	64.6	3.11

1: Calculated from M.
Synonym: 1,4-Diamino-2-methoxyanthraquinone
Sources: Swidersky, P.; Tuma, D.; Schneider, G. M. *J. Supercrit. Fluids* (1996), 9, 12-18. (*Another source*: Haarhaus, U., Sc.D. Thesis, University of Bochum, Bochum, Germany, 1992.)

C. I. Disperse Red 13 ($C_{16}H_{17}ClN_4O_3$; MW=348.79) **[C-128]**

T (K)	P (bar)	y x 10^6
323.15	100	0.04
	120	0.58
	150	2.06
	200	5.26
	250	7.94
	300	11.94
353.15	100	0.01
	120	0.07
	150	0.75
	200	7.02
	250	14.01
	300	25.50
383.15	100	0.05
	120	0.13
	150	0.72
	200	5.42
	250	22.43
	300	47.31

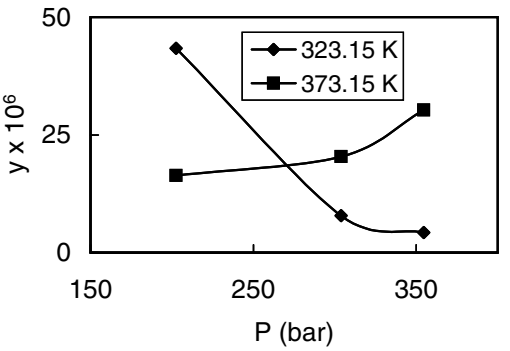


Synonym: 4-Nitro-2-chloro-4'-[ethyl(2-hydroxyethyl) amino]azobenzene
Source: Shinoda, T.; Tamura, K. *Fluid Phase Equil.* (2003), 213(1-2), 115-123.

C. I. Disperse Red 30 ($C_{16}H_{17}ClN_4O_4$; MW=364.78) **[C-129]**

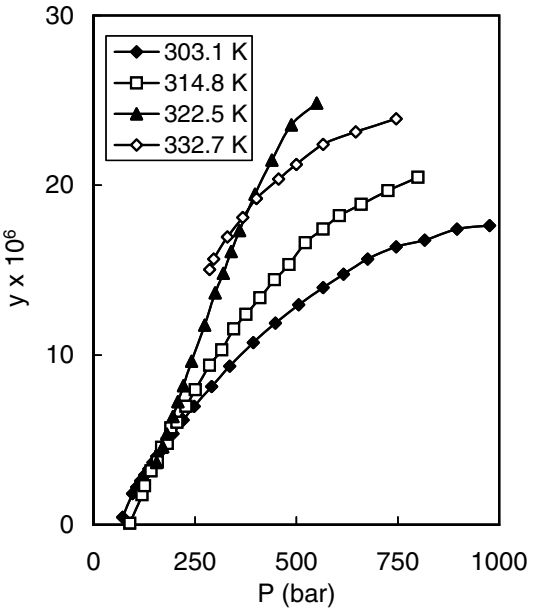
T (K)	P (bar)	y x 10^6
323.15	202.6	43.40
	303.9	7.88
	354.6	4.25
373.15	202.6	16.40
	303.9	20.40
	354.6	30.30

Synonym: 2,2'-[[4-[(2-Chloro-4-nitrophenyl)azo]phenyl]imino]bisethanol
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Red 60 (C20H13NO4; MW=331.33) **[C-130]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
303.1	72	7.44	0.45
	96	31.76	1.83
	106	39.50	2.21
	116	47.18	2.58
	126	54.66	2.94
	136	62.39	3.30
	146	70.48	3.67
	156	78.20	4.03
	166	85.24	4.34
	176	93.32	4.70
	196	108.35	5.36
	221	127.01	6.17
	248	146.41	6.98
	291	174.89	8.14
	336	205.02	9.35
	394	240.72	10.73
	448	271.55	11.88
	506	301.33	12.97
	566	329.86	13.97
	616	352.44	14.76
	676	378.66	15.65
	746	401.34	16.36
	816	416.42	16.77
	896	438.05	17.42
	976	448.29	17.62



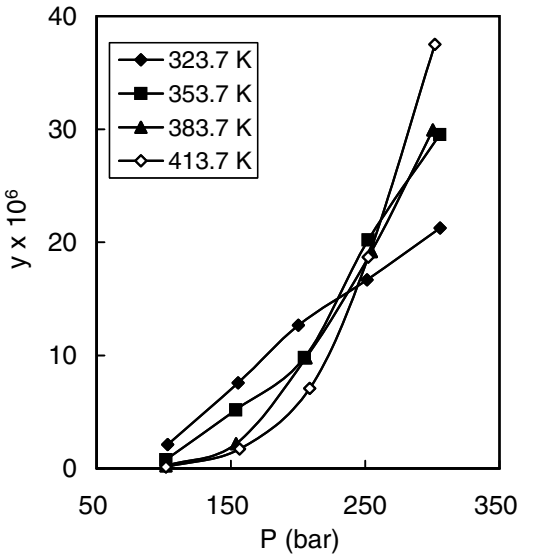
314.8	90	0.80	0.08
	120	28.25	1.77
	126	37.51	2.29
	142	54.33	3.16
	158	65.98	3.71
	168	82.67	4.57
	182	88.55	4.79
	191	106.68	5.70
	206	114.91	6.03
	228	135.99	6.98
	251	157.94	7.95
	286	191.49	9.40
	316	213.71	10.29
	346	243.36	11.53
	376	265.35	12.40
	410	290.51	13.37
	446	317.82	14.43
	482	341.97	15.33
	522	375.32	16.61
	566	398.63	17.41
	606	421.23	18.20
	660	442.49	18.87
	726	468.55	19.69
	800	494.39	20.46
322.5	156	60.21	3.67
	171	78.11	4.59
	181	93.01	5.35
	196	113.79	6.38
	208	131.79	7.26
	222	151.52	8.19
	242	182.29	9.64
	274	228.92	11.75
	300	271.60	13.67
	320	298.40	14.81
	339	328.04	16.09
	360	357.81	17.34
	398	409.80	19.48
	440	460.55	21.48
	488	514.57	23.55
	550	554.45	24.85
332.7	286	280.90	15.03
	296	295.18	15.65
	330	328.90	16.95
	368	360.46	18.10

402	390.52	19.22
456	425.14	20.36
500	451.56	21.22
566	488.40	22.40
646	517.22	23.13
746	549.06	23.92

1: Calculated from M.
Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone
Sources: Kraska, T.; Leonhard, K. O.; Tuma, D.; Schneider, G. M.*Fluid Phase Equil.* (2002), 194-197, 469-482. (The numerical data are from Tuma, D. Sc.D. Thesis, University of Bochum, Bochum, Germany, 1999.)

C. I. Disperse Red 60 ($C_{20}H_{13}NO_4$; MW=331.33) **[C-131]**

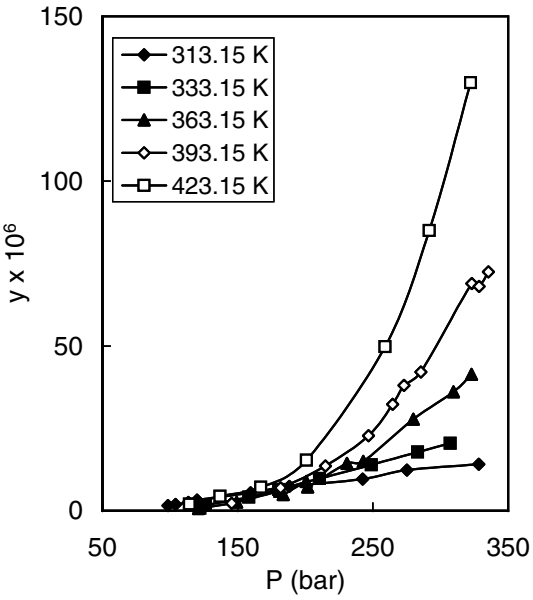
T (K)	P (bar)	y x 10^6
323.7	102.9	2.11
	155.3	7.56
	200.3	12.66
	251.3	16.68
	305.7	21.25
353.7	101.5	0.78
	153.6	5.17
	204.7	9.81
	252.3	20.21
	305.6	29.53
383.7	101.5	0.23
	153.8	2.19
	205.8	9.78
	254.7	19.17
	300.3	29.94
413.7	101.5	0.14
	156.5	1.72
	208.6	7.07
	252.3	18.68
	301.8	37.51



Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone
Source: Lee, J. W.; Min, J. M.; Bae, H. K. *J. Chem . Eng. Data* (1999), 44(4), 684-687.

C. I. Disperse Red 60 ($C_{20}H_{13}NO_4$; MW=331.33) **[C-132]**

T (K)	P (bar)	y × 10^6
313.15	98.5	1.61
	104.1	1.92
	113.4	2.55
	119.9	3.28
	159.5	5.46
	188.1	7.41
	242.3	9.59
	275.1	12.39
	328.3	14.13
333.15	122.0	0.82
	126.2	1.66
	158.3	4.14
	180.5	6.47
	210.5	9.80
	248.8	13.91
	283.1	17.79
	307.1	20.52
363.15	121.0	0.72
	149.2	2.64
	181.1	5.92
	183.6	4.96
	200.6	8.93
	201.8	7.20
	230.8	14.35
	242.9	15.04
	279.9	27.79
	309.6	36.09
	322.8	41.38
393.15	145.5	2.33
	181.8	6.95
	214.8	13.58
	246.6	22.75
	264.5	32.30
	272.9	38.02
	285.5	42.08
	323.0	68.98
	328.4	68.03
	335.4	72.47
423.15	114.4	2.03
	136.9	4.40
	167.0	7.15
	200.9	15.40
	258.9	49.78
	291.7	85.03
	322.3	129.90

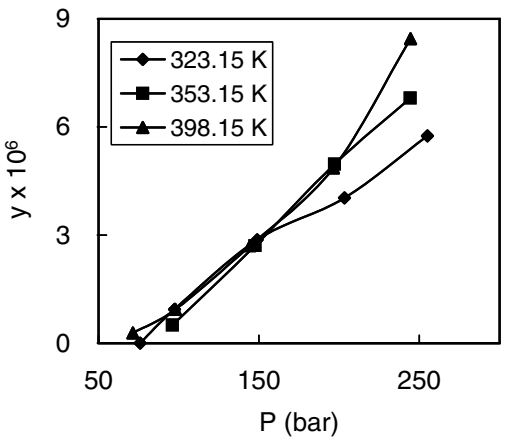


Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone

Source: Sung, H.-D.; Shim, J.-J. *J. Chem. Eng. Data* (1999), 44(5), 985-989.

C. I. Disperse Red 60 ($C_{20}H_{13}NO_4$; MW=331.33) **[C-133]**

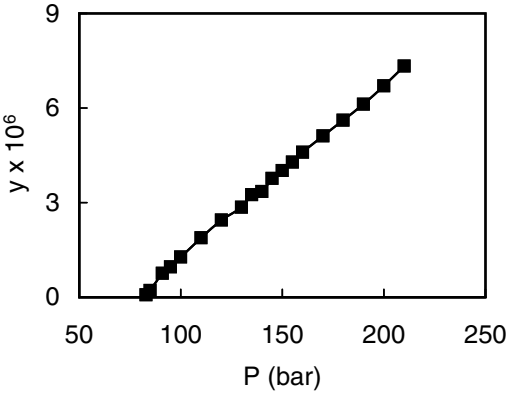
T (K)	P[1)] (bar)	y[1)] x 10^6
323.15	75.9	0.00
	97.4	0.94
	149.0	2.87
	203.2	4.03
	255.1	5.75
353.15	96.1	0.50
	147.6	2.71
	197.1	4.97
	244.3	6.80
398.15	71.4	0.28
	98.0	0.94
	144.6	2.71
	196.4	4.86
	244.5	8.45



1: Obtained by digitizing the graph in the original article.
Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone
Source: Tabata, I.; Lyu, J.; Cho, S.; Tominaga, T.; Hori, T. *Coloration Tech.* (2001), 117(6), 346-351.

C. I. Disperse Red 60 ($C_{20}H_{13}NO_4$; MW=331.33) **[C-134]**

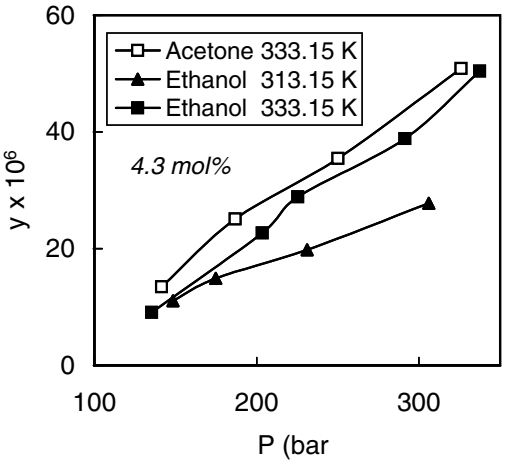
T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
310.4	83	0.68	0.07
	85	2.40	0.21
	91	10.70	0.76
	95	14.21	0.96
	100	19.69	1.27
	110	30.82	1.88
	120	41.55	2.44
	130	49.83	2.85
	135	57.44	3.25
	140	59.95	3.35
	145	68.01	3.77
	150	73.10	4.01
	155	78.68	4.28
	160	85.01	4.59
	170	95.96	5.11
	180	106.68	5.61
	190	117.79	6.12
	200	130.37	6.70
	210	143.92	7.33

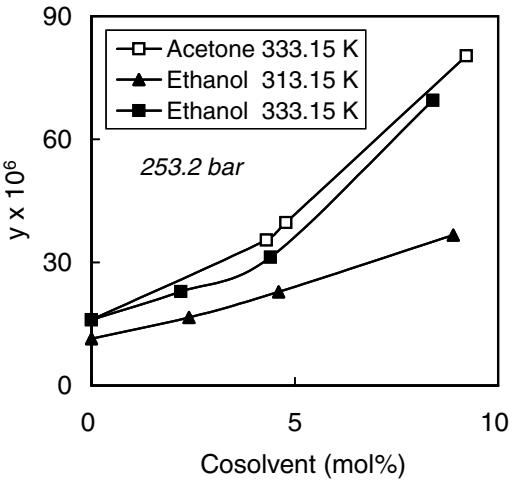


1: Calculated from M.
Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone
Sources: Tuma, D.; Wagner, B.; Schneider, G. M. *Fluid Phase Equil.* (2001), 182, 133-143.

C. I. Disperse Red 60 ($C_{20}H_{13}NO_4$; MW=331.33) **[C-135]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
		Acetone	
333.15	141.5	4.3	13.46
	186.8	4.3	25.11
	250.1	4.3	35.47
	326.0	4.3	50.85
	253.2	0.0	16.00
	253.2	4.3	35.47
	253.2	4.8	39.74
	253.2	9.2	80.33
		Ethanol	
313.15	148.4	4.3	11.05
	174.7	4.3	14.93
	231.1	4.3	19.82
	306.0	4.3	27.78
	253.2	0.0	11.44
	253.2	2.4	16.58
	253.2	4.6	22.84
	253.2	8.9	36.66
333.15	135.4	4.3	9.08
	203.5	4.3	22.71
	225.4	4.3	28.86
	291.3	4.3	38.83
	337.4	4.3	50.44
	253.2	0.0	16.00
	253.2	2.2	22.88
	253.2	4.4	31.30
	253.2	8.4	69.49

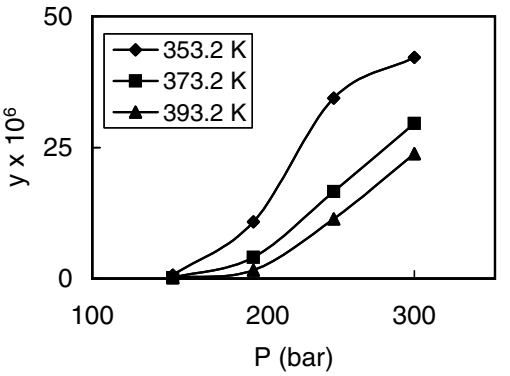




1: Cosolvent in CO_2 on a solvent-free basis.
Synonym: 1-Amino-4-hydroxy-2-phenoxyanthraquinone
Source: Muthukumaran, P.; Gupta, R. B.; Sung, H-D.; Shim, J.-J.; Bae, H.-K.*Korean J. Chem. Eng.* (1999), 16(1), 111-117.

C. I. Disperse Red 82 ($C_{21}H_{21}N_5O_6$; MW=439.43) **[C-136]**

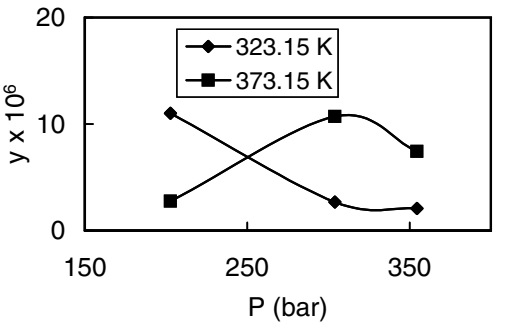
T (K)	P (bar)	y x 10^6
353.2	150	0.64
	200	10.80
	250	34.40
	300	42.20
373.2	150	0.19
	200	4.03
	250	16.60
	300	29.60
393.2	150	0.17
	200	1.60
	250	11.40
	300	23.80



Synonym: 3-Nitro-6-[4-[*N,N*-di(acetoxyethyl)amino] phenyl]azobenzonitrile
Source: Lin, H.-m.; Ho, C.-C.; Lee, M.-J. *J. Supercrit. Fluids*(2004), 32(1-3), 105-114.

C. I. Disperse Red 137[1)] (MW=430) **[C-137]**

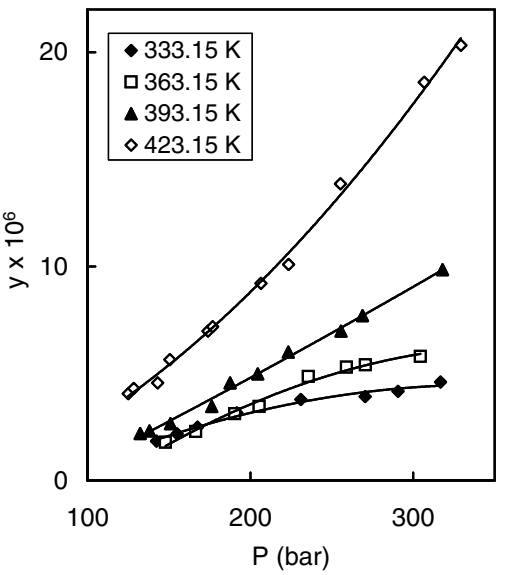
T (K)	P (bar)	y x 10^6
323.15	202.6	11.00
	303.9	2.69
	354.6	2.08
373.15	202.6	2.75
	303.9	10.70
	354.6	7.42



1: The molecular formula is not known for this material.
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Red 152 ($C_{19}H_{17}Cl_2N_5S$; MW=418.34) **[C-138]**

T (K)	P (bar)	y x 10^6
333.15	142.4	1.84
	155.0	2.17
	167.5	2.49
	191.6	3.15
	231.0	3.78
	270.5	3.91
	290.6	4.16
	316.8	4.59
363.15	147.9	1.78
	166.5	2.28
	190.4	3.11
	205.5	3.45
	235.7	4.85
	259.0	5.29
	270.7	5.40
	304.5	5.79
393.15	132.3	2.19
	138.0	2.31
	151.0	2.65
	176.3	3.45
	187.5	4.55
	204.5	4.98
	223.3	5.99
	255.6	6.98
	268.9	7.70
	318.1	9.85
423.15	125.1	4.05
	128.5	4.29
	143.0	4.55
	150.6	5.64
	174.0	6.97
	176.8	7.18
	206.5	9.20
	223.4	10.09
	255.3	13.86
	306.8	18.60
	329.2	20.33

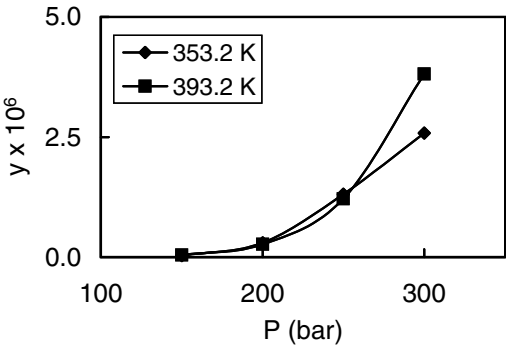


Synonym: 3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]-3-methylphenyl]ethylamino]propanenitrile

Source: Shim, J.-J.; Baek, J.-K.; Sung, H.-D.; Lee, K.-H.; Choi, J.-H. Proceedings of the 6th Conference on Supercritical Fluids and Their Applications, Maiori, Italy, (Sep. 12, 2001), 565-570. (Data from Baek's thesis)

C. I. Disperse Red 153 ($C_{18}H_{15}Cl_2N_5S$; MW=404.32) **[C-139]**

T (K)	P (bar)	y x 10^6
353.2	150	0.03
	200	0.30
	250	1.31
	300	2.58
393.2	150	0.04
	200	0.27
	250	1.21
	300	3.81

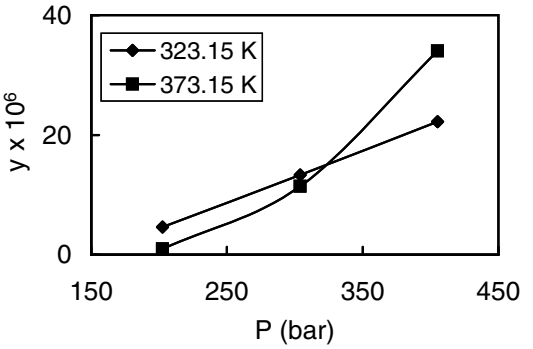


Synonym: 3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]phenyl]ethylamino] propanenitrile

Source: Lin, H.-m.; Liu, C.-Y.; Cheng, C-H.; Chen, Y.-T.; Lee, M.-J. *J. Supercrit. Fluids* (2001), 21(1), 1-9.

C. I. Disperse Red 167 ($C_{23}H_{26}ClN_5O_7$; MW=519.93[1)]) **[C-140]**

T (K)	P (bar)	y x 10^6
323.15	202.6	4.63
	303.9	13.30
	405.2	22.20
373.15	202.6	0.97
	303.9	11.40
	405.2	34.00



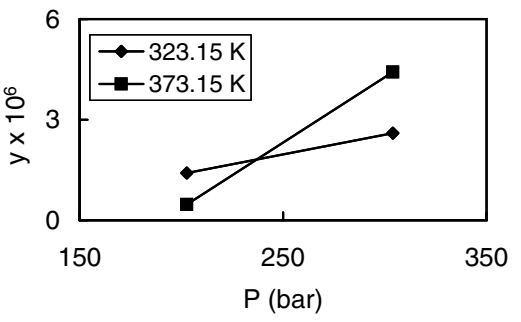
1: This is the MW in SciFinder, while that in the source article is 506.

Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-chloro-4-nitrophenyl)azo] phenyl]propanamide

Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Red 324 (MW=426[1)]) **[C-141]**

T (K)	P (bar)	y x 10^6
323.15	202.6	1.41
	303.9	2.60
373.15	202.6	0.47
	303.9	4.42

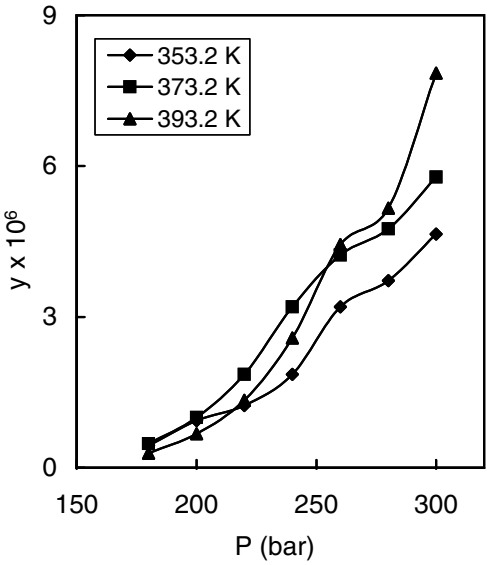


1: The molecular formula is not known for this material.

Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Red 324[1)] (MW=426) **[C-142]**

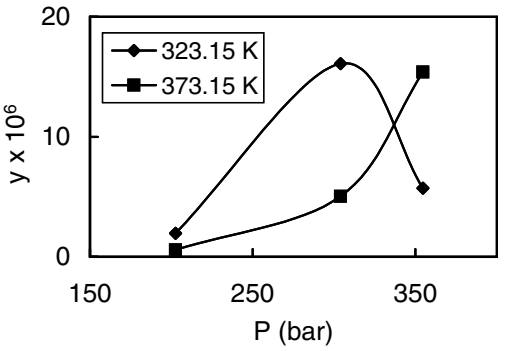
T (K)	P (bar)	y x 10^6
353.2	180	0.44
	200	0.94
	220	1.24
	240	1.86
	260	3.20
	280	3.72
	300	4.65
373.2	180	0.48
	200	1.00
	220	1.86
	240	3.20
	260	4.23
	280	4.75
	300	5.78
393.2	180	0.29
	200	0.68
	220	1.34
	240	2.58
	260	4.44
	280	5.16
	300	7.85



1: The information on the molecular structure is not available for this material.
Source: Ferri, A.; Banchero, M.; Manna, L.; Sicardi, S. *J. Supercrit. Fluids* (2004), 30(1), 41-49.

C. I. Disperse Red W-4BS[1)] (MW=469) **[C-143]**

T (K)	P (bar)	y x 10^6
323.15	202.6	1.96
	303.9	16.10
	354.6	5.73
373.15	202.6	0.58
	303.9	5.05
	354.6	15.40

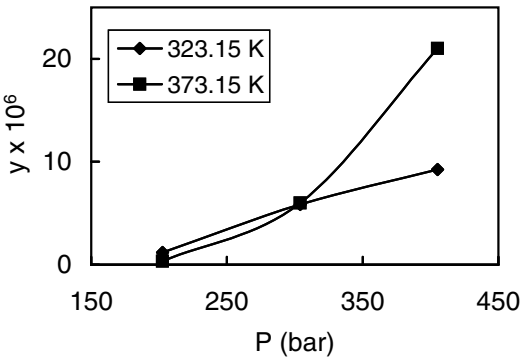


1: The molecular formula is not known for this material.
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.

C. I. Disperse Violet 91 ($C_{22}H_{24}N_6O_9$; MW=516.46) **[C-144]**

T (K)	P (bar)	y x 10^6
323.15	202.6	1.20
	303.9	5.85
	405.2	9.24
373.15	202.6	0.33
	303.9	5.99
	405.2	21.00

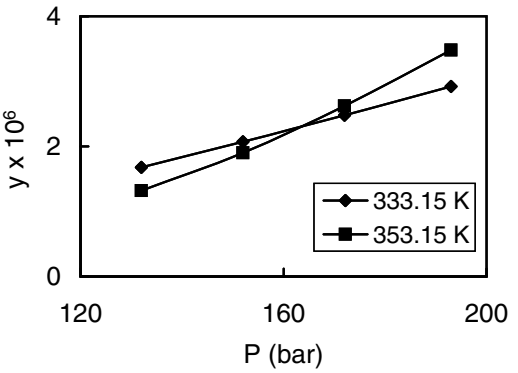
Synonym: *N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2,4-dinitrophenyl)azo]phenyl] acetamide
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Yellow 7 ($C_{19}H_{16}N_4O$; MW=316.36) **[C-145]**

T (K)	P (bar)	y × 10^6
333.15	132	1.68
	152	2.07
	172	2.48
	193	2.92
353.15	132	1.32
	152	1.90
	172	2.62
	193	3.48

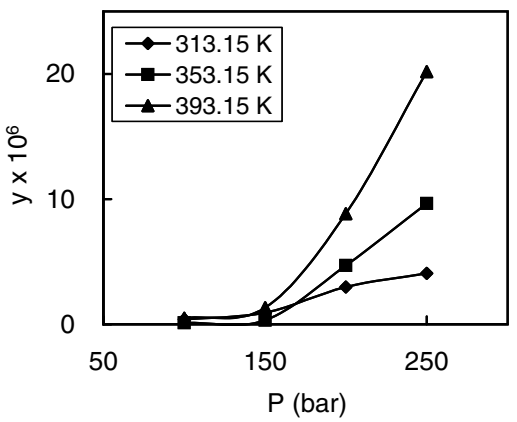
Synonym: 2-Methyl-4-[[4-(phenylazo) phenyl]azo]phenol
Source: Guzel, B.; Akgerman, A. *J. Chem. Eng. Data* (1999), 44(1), 83-85.



C. I. Disperse Yellow 7 ($C_{19}H_{16}N_4O$; MW=316.36) **[C-146]**

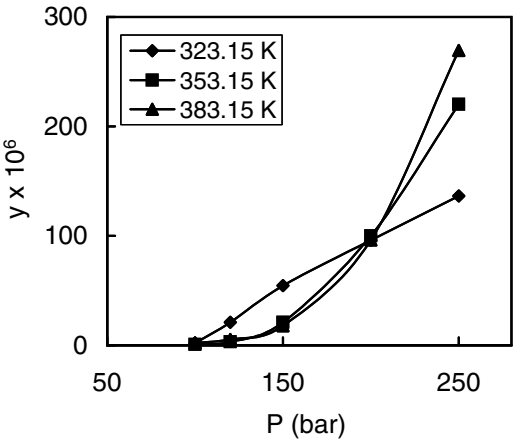
T (K)	P (bar)	y x 10^6
313.15	100	0.399
	150	0.936
	200	2.971
	250	4.075
353.15	100	0.121
	150	0.333
	200	4.706
	250	9.644
393.15	100	0.479
	150	1.335
	200	8.840
	250	20.190

Synonym: 2-Methyl-4-[[4-(phenylazo) phenyl]azo]phenol
Source: Joung, S. N.; Yoo, K.-P. *J. Chem. Eng. Data* (1998), 43(1), 9-12.



C. I. Disperse Yellow 16 ($C_{16}H_{14}N_4O$; MW=278.31) **[C-147]**

T (K)	P (bar)	y x 10^6
323.15	100	2.2
	120	21.1
	150	54.5
	200	96.1
	250	136.5
353.15	100	0.9
	120	3.3
	150	20.9
	200	99.9
	250	220.3
383.15	100	2.1
	120	5.4
	150	17.8
	200	96.2
	250	269.4

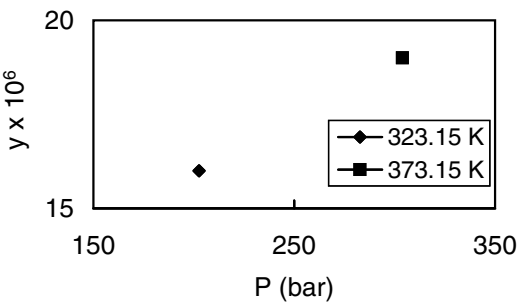


Synonym: 3-Methyl-1-phenyl-4-(phenylazo)-pyrazol-5-ol
Source: Tamura, K.; Shinoda, T. *Fluid Phase Equil.*(2004), 219(1), 25-32.

C. I. Disperse Yellow 42 ($C_{18}H_{15}N_3O_4S$; MW=369.39) **[C-148]**

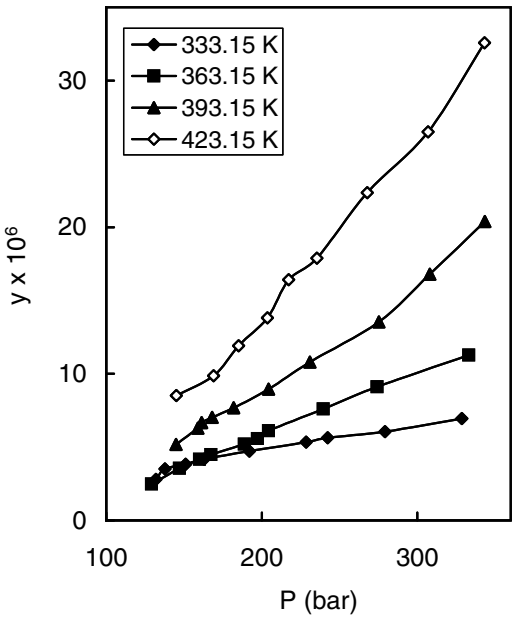
T (K)	P (bar)	y x 10^6
323.15	202.6	16
373.15	303.9	19

Synonym: 4-Anilino-3-nitrobenzenesulfonanilide
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Yellow 54 ($C_{18}H_{11}NO_3$; MW=289.28) **[C-149]**

T (K)	P (bar)	y x 10^6
333.15	132.0	2.79
	137.7	3.51
	151.0	3.84
	162.8	4.17
	192.0	4.73
	228.5	5.35
	242.3	5.64
	279.2	6.05
	328.5	6.95
363.15	129.2	2.48
	147.2	3.55
	160.0	4.17
	167.3	4.48
	188.8	5.21
	197.2	5.58
	204.4	6.12
	239.6	7.60
	274.2	9.12
	333.0	11.28
393.15	144.9	5.19
	158.9	6.29
	161.3	6.67
	168.1	7.02
	182.0	7.69
	204.3	8.96
	231.0	10.79
	275.3	13.54
	308.0	16.80
	343.3	20.39
423.15	145.0	8.51
	169.0	9.87
	185.2	11.92
	203.6	13.82
	217.3	16.41
	235.4	17.88
	267.8	22.35
	306.8	26.50
	343.1	32.58



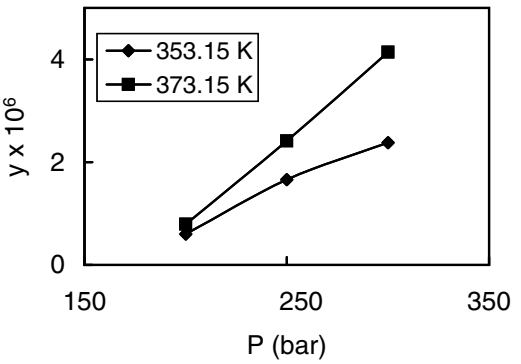
Synonyms: 2-(3-Hydroxy-2-quinolyl)-1,3-indanedione; C. I. Solvent Yellow 114

Source: Shim, J.-J.; Baek, J.-K.; Sung, H.-D.; Lee, K.-H.; Choi, J.-H. Proceedings of the 6th Conference on Supercritical Fluids and Their Applications, Maiori, Italy, (Sep. 12, 2001), 565-570. (Data from Baek's thesis).

C. I. Disperse Yellow 82 ($C_{20}H_{19}N_3O_2$; MW=333.38) **[C-150]**

T (K)	P (bar)	y x 10^6
353.15	200	0.60
	250	1.66
	300	2.38
373.15	200	0.79
	250	2.41
	300	4.14

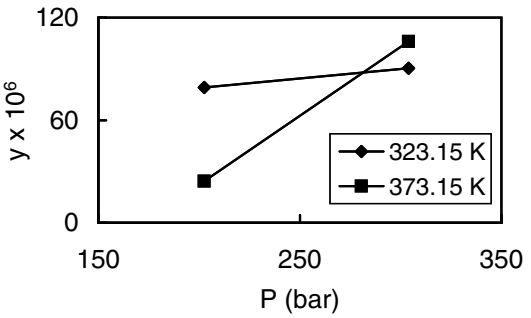
Synonym: 3-(2-Benzimidazolyl)-7-(diethylamino)coumarin
Source: Oezcan, A. S.; Clifford, A. A.; Bartle, K. D.; Lewis, D. M. *J. Chem. Eng. Data* (1997), 42(3), 590-592.



C. I. Disperse Yellow 86 ($C_{16}H_{19}N_3O_5S$; MW=365.40) **[C-151]**

T (K)	P (bar)	y x 10^6
323.15	202.6	79.2
	303.9	90.4
373.15	202.6	24.3
	303.9	106.0

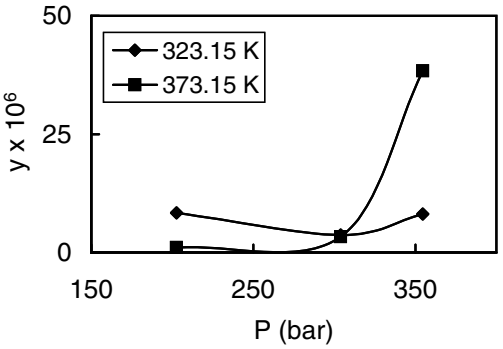
Synonym: 4-(4-Ethoxyanilino)-*N,N*-dimethyl-3-nitrobenzenesulfonamide
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Yellow 108[1)] (MW=429) **[C-152]**

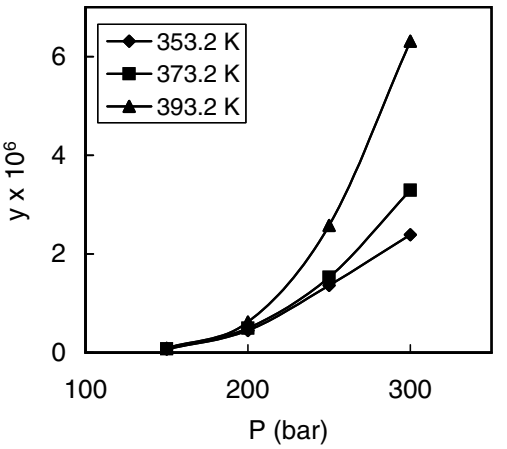
T (K)	P (bar)	y x 10^6
323.15	202.6	8.37
	303.9	3.70
	354.6	8.12
373.15	202.6	1.06
	303.9	3.35
	354.6	38.40

1: The molecular formula is not known for this material.
Source: Draper, S. L.; Montero, G. A.; Smith, B.; Beck, K. *Dyes Pigm.* (2000), 45(3), 177-183.



C. I. Disperse Yellow 119 ($C_{15}H_{13}O_4N_5$; MW=327.30) **[C-153]**

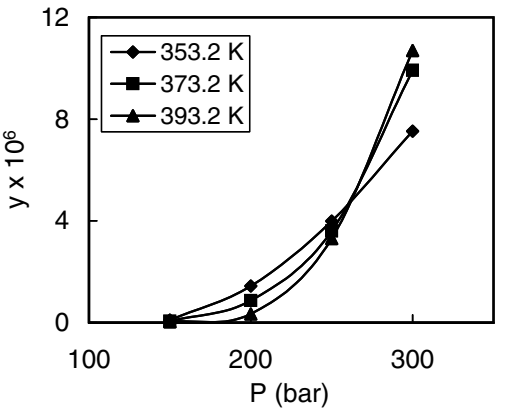
T (K)	P (bar)	y x 10^6
353.2	150	0.07
	200	0.45
	250	1.36
	300	2.39
373.2	150	0.07
	200	0.49
	250	1.53
	300	3.29
393.2	150	0.09
	200	0.62
	250	2.58
	300	6.31



Synonym: 1-Ethyl-6-hydroxy-4-methyl-5-(2-nitro-phenylazo)-2-oxo-1,2-dihydro-pyridine-3-carbonitrile
Source: Lin, H. m.; Liu, C. Y.; Cheng, C. H.; Chen,Y.-T. ; Lee, M.-J. *J. Supercrit. Fluids* (2001), 21(1), 1-9.

C. I. Modified Yellow 119 ($C_{15}H_{12}ClN_5O_4$; MW=361.74) **[C-154]**

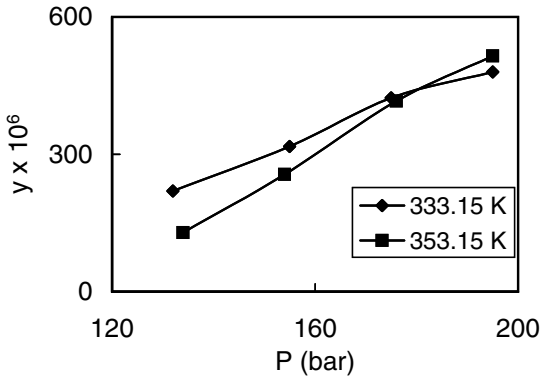
T (K)	P (bar)	y x 10^6
353.2	150	0.10
	200	1.44
	250	3.99
	300	7.53
373.2	150	0.06
	200	0.87
	250	3.60
	300	9.92
393.2	150	0.04
	200	0.35
	250	3.31
	300	10.70



Synonym: 5-(4-Chloro-2-nitrophenylazo)-3-cyano-1-ethyl-6-hydroxy-4-methyl-1*H*-pyridin-2-one
Source: Lin, H.-m.; Ho, C.-C.; Lee, M.-J. *J. Supercrit. Fluids* (2004), 32(1-3), 105-114.

C. I. Mordant Brown ($C_{10}H_7NO_2$; MW=173.17) **[C-155]**

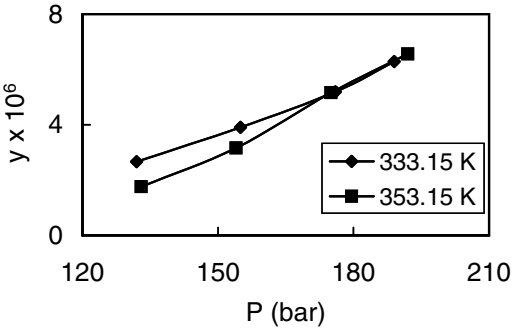
T (K)	P (bar)	y × 10^6
333.15	132	220
	155	317
	175	423
	195	480
353.15	134	129
	154	256
	176	416
	195	515



Synonym: 2-Nitroso-1-naphthol
Source: Guzel, B.; Akgerman, A.
J. Chem. Eng. Data (1999), 44(1), 83-85.

C. I. Mordant Red 11 ($C_{14}H_8O_4$; MW=240.22) **[C-156]**

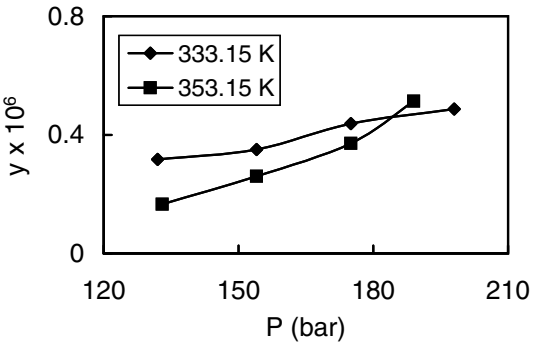
T (K)	P (bar)	y × 10^6
333.15	132	2.66
	155	3.91
	176	5.19
	189	6.28
353.15	133	1.76
	154	3.16
	175	5.16
	192	6.56



Synonyms: 1,2-Dihydroxyanthraquinone; Alizarin
Source: Guzel, B.; Akgerman, A.
J. Chem. Eng. Data (1999), 44(1), 83-85.

C. I. Mordant Yellow 12 ($C_{13}H_{10}N_3NaO_3$; FW=279.23) **[C-157]**

T (K)	P (bar)	y × 10^6
333.15	132	0.32
	154	0.35
	175	0.44
	198	0.49
353.15	133	0.17
	154	0.26
	175	0.37
	189	0.51

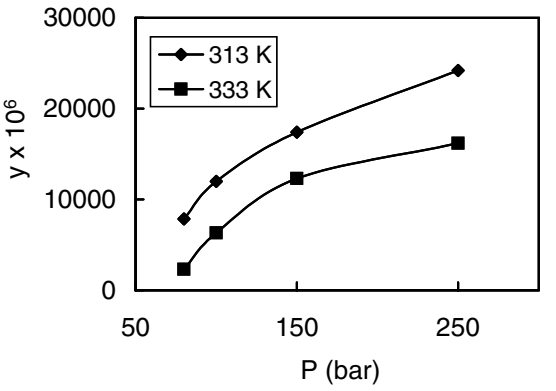


Synonym: 5-(4-aminophenylazo)-2-hydroxybenzoic acid sodium salt
Source: Guzel, B.; Akgerman, A.
J. Chem. Eng. Data (1999), 44(1), 83-85.

Cineole ($C_{10}H_{18}O$; MW=154.25)

[C-158]

T (K)	P[1)] (bar)	S[1,2)](g/L)	y[3)] x 10^6
313.15	80	0.051	7850
	100	0.078	12000
	150	0.114	17400
	250	0.160	24200
333.15	80	0.015	2320
	100	0.041	6320
	150	0.080	12300
	250	0.106	16200

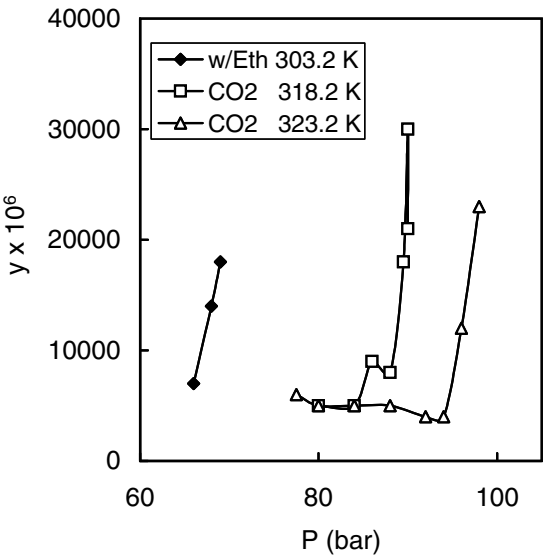


1: Obtained by digitizing the graph in the original article.
2: Solubility is based on 1 liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: 1,8-Cineole; 1,8-Epoxy-*p*-menthane
Source: Francisco, J. C.; Sivik, B. *J. Supercrit. Fluids*(2002), 23(1), 11-19.

Cineole ($C_{10}H_{18}O$; MW=154.25)

[C-159]

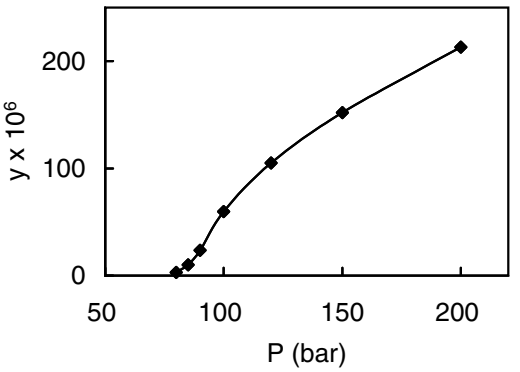
T (K)	P (bar)	Ethane[1)] (mol %)	y x 10^6
303.2	66.0	23.2	7000
	68.0	23.2	14000
	69.0	23.2	18000
318.2	80.0	0.0	5000
	84.0	0.0	5000
	86.0	0.0	9000
	88.0	0.0	8000
	89.5	0.0	18000
	90.0	0.0	30000
	90.0	0.0	21000
323.2	77.5	0.0	6000
	80.0	0.0	5000
	84.0	0.0	5000
	88.0	0.0	5000
	92.0	0.0	4000
	94.0	0.0	4000
	96.0	0.0	12000
	98.0	0.0	23000



1: Cosolvent in CO_2.
Synonyms: 1,8-Cineole; 1,8-Epoxy-p-menthane
Source: Matos, H. A.; de Azevedo, E. G.; Simoes, P. C.; Carrondo, M. T.; da Ponte, N. M.*Fluid Phase Equil.*(1989), 52, 357-364.

***trans*-Cinnamic acid** ($C_9H_8O_2$; MW=148.16) **[C-160]**

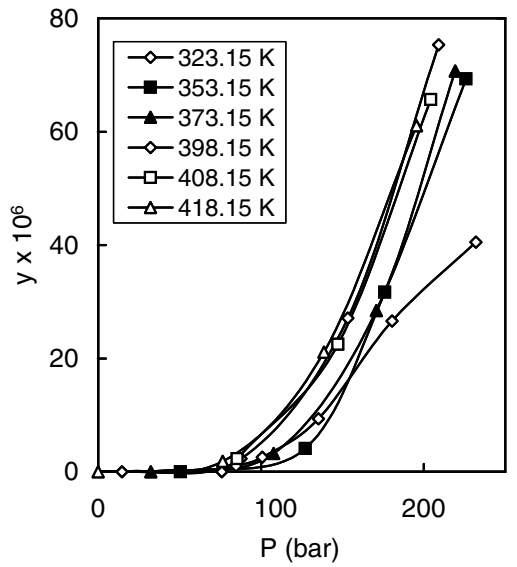
T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	80	0.020	3.0
	85	0.067	10.1
	90	0.157	23.6
	100	0.397	59.7
	120	0.700	105.0
	150	1.010	152.0
	200	1.420	213.0



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: (*E*)-3-Phenyl-2-propenoic acid; *trans*-3-Phenylacrylic acid
Source: Stahl, E.; Schilz, W.*Talanta*(1979), 26, 675-679.

C. I. Solvent Blue 35 ($C_{22}H_{26}N_2O_2$; MW=350.45) **[C-161]**

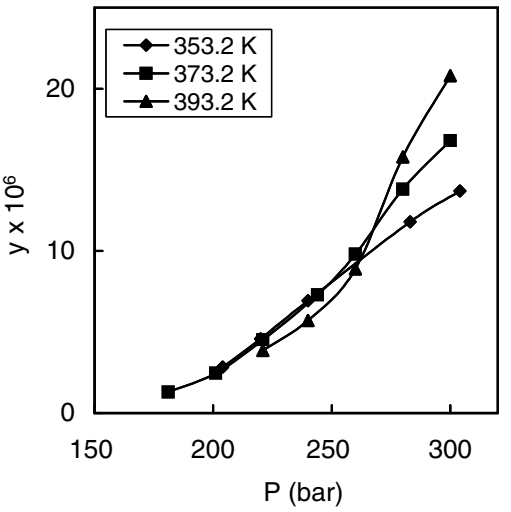
T (K)	P[1] (bar)	y[1] x 10^6
323.15	75.9	0.00
	84.8	1.02
	100.8	2.54
	135.3	9.32
	180.5	26.61
	231.9	40.51
353.15	50.6	0.00
	127.3	4.13
	176.0	31.68
	225.8	69.34
373.15	32.4	0.00
	107.8	3.21
	170.9	28.47
	219.2	70.71
398.15	14.6	0.00
	87.7	2.30
	153.3	27.09
	209.1	75.31
408.15	85.5	2.30
	147.3	22.50
	204.3	65.66
418.15	0.0	0.00
	76.5	1.84
	138.7	21.12
	195.5	61.07



1: Obtained by digitizing the graph in the original article.
Synonyms: 1,4-Bis(butylamino)anthraquinone; Sudan Blue II
Source: Tabata, I.; Lyu, J.; Cho, S.; Tominaga, T.; Hori, T.*Coloration Tech.* (2001), 117(6), 346-351.

C. I. Solvent Brown 1 ($C_{16}H_{14}N_4$; MW=262.31) **[C-162]**

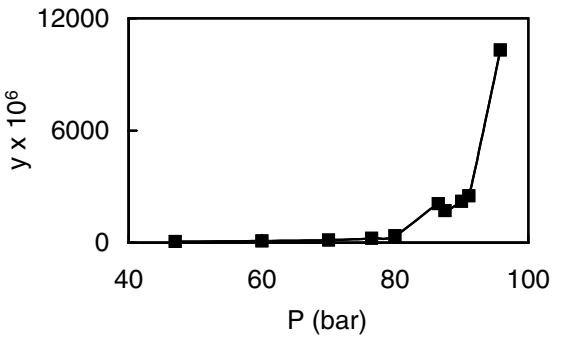
T (K)	P (bar)	y x 10^6
353.2	204	2.83
	220	4.57
	240	6.92
	283	11.80
	304	13.70
373.2	181	1.29
	201	2.45
	221	4.52
	244	7.28
	260	9.80
	280	13.80
	300	16.80
393.2	221	3.86
	240	5.70
	260	8.89
	280	15.80
	300	20.80



Synonyms: 4-(1-Naphthalenylazo)-1,3-benzenediamine; Fat Brown RR
Source: Ferri, A.; Banchero, M.; Manna, L.; Sicardi, S. *J. Supercrit. Fluids* (2004), 32(1-3), 27-35.

Citral ($C_{10}H_{16}O$; MW=152.23) **[C-163]**

T (K)	P(bar)	w x 10^6	y[1)] x 10^6
315	47.0	200	58
	60.0	300	87
	70.0	500	145
	76.5	800	231
	80.0	1300	376
	86.5	7200	2090
	87.5	5900	1710
	90.0	7600	2210
	91.1	8600	2500
	95.8	34800	10300

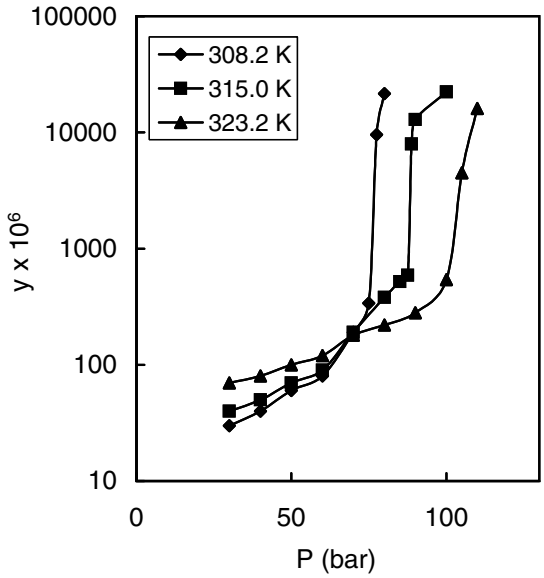


1: Calculated from w.
Synonym: 3,7-Dimethyl-2,6-octadienal
Source: Benvenuti, F.; Gironi, F. *J. Chem. Eng. Data* (2001), 46(4), 795-799.

Citral ($C_{10}H_{16}O$; MW=152.23) **[C-164]**

T(K)	P(bar)	y x 10^6
308.2	30.0	30
	40.0	40
	50.0	60
	60.0	80
	70.0	190

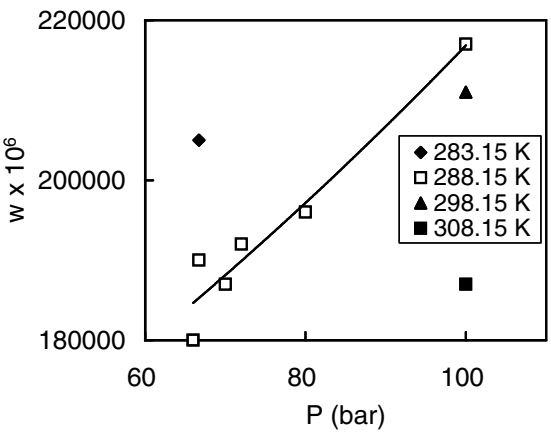
	75.0	340
	77.5	9560
	80.0	21600
315.0	30.0	40
	40.0	50
	50.0	70
	60.0	90
	70.0	190
	80.0	380
	85.0	520
	87.5	590
	88.8	7930
	90.0	12900
	100.0	22300
323.2	30.0	70
	40.0	80
	50.0	100
	60.0	120
	70.0	180
	80.0	220
	90.0	280
	100.0	540
	105.0	4500
	110.0	16100



Synonym: 3,7-Dimethyl-2,6-octadienal
Source: Di Giacomo, G.; Brandiani, V.; Del Re, G.; Mucciante, V. *Fluid Phase Equil.* (1989), 52. 405-411.

Clove (*Eugenia caryophillus*[1)]) buds extract **[C-165]**

T (K)	P (bar)	W (g/kg)	w[2)]x 10^6
283.15	66.7	258	205000
288.15	66.0	220	180000
	66.7	234	190000
	70.0	230	187000
	72.0	238	192000
	80.0	244	196000
	100.0	277	217000
298.15	100.0	267	211000
308.15	100.0	230	187000

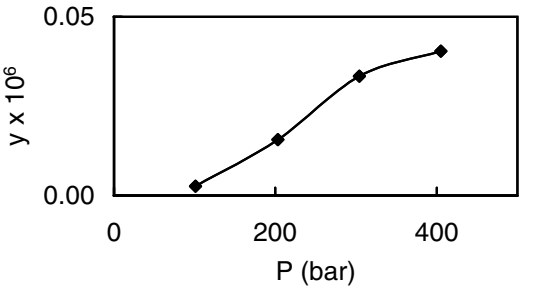


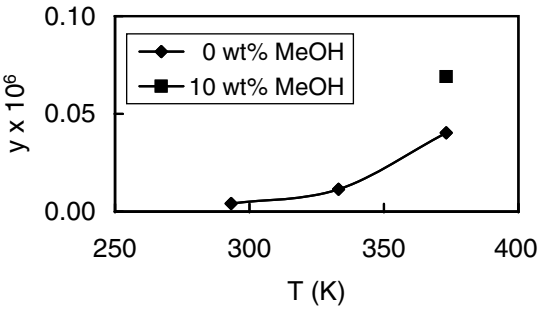
1: A Brazilian tree.
2: Calculated from W.
Source: Rodrigues,V.M.;Sousa,E.M.B. D.; Monteiro, A. R.; Chiavone-Filho, O.; Marques, M. O. M.; Meireles, M. A.A. *J. Supercrit. Fluids* (2002), 22(1), 21-36.

Cobalt bis (acetylacetonate) ($C_{10}H_{14}CoO_4$; FW=257.15) **[C-166]**

T (K)	P (bar)	Methanol[1)] (wt%)	y x 10^6
333.15	101	0	0.0026
	203	0	0.0156
	304	0	0.0334
	405	0	0.0404
293.15	405	0	0.0041
333.15	405	0	0.0115
373.15	405	0	0.0404
373.15	405	10	0.0690

1: Cosolvent in CO_2.
Synonyms: Bis(2,4-pentanedionato)cobalt; $Co(acac)_2$
Source: Ozel, M. Z.; Bartle, K. D.; Clifford, A. A.; Burford, M. D. *Anal. Chim. Acta* (2000), 417(2), 177-184.

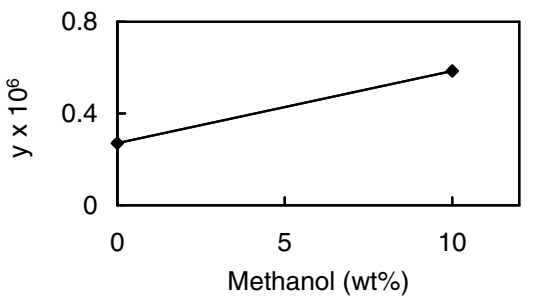




Cobalt bis(hexafluoroacetylacetonate) ($C_{10}H_2CoF_{12}O_4$; FW=473.03) **[C-167]**

T (K)	P (bar)	Methanol[1)] (wt%)	y x 10^6
373.15	405	0	0.270
		10	0.585

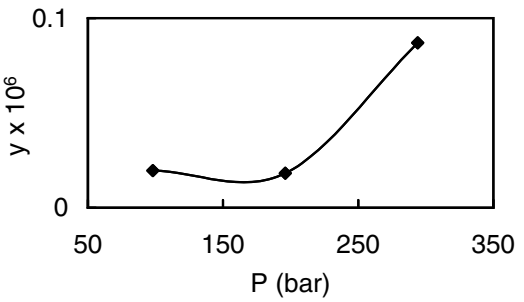
1: Cosolvent in CO_2.
Synonyms: $Co(hfa)_2$; Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)cobalt
Source: Ozel, M. Z.; Bartle, K. D.; Clifford, A. A.; Burford, M. D. *Anal. Chim. Acta* (2000), 417(2), 177-184.



Cobalt tris(acetylacetonate) ($C_{15}H_{21}CoO_6$; FW=356.26) **[C-168]**

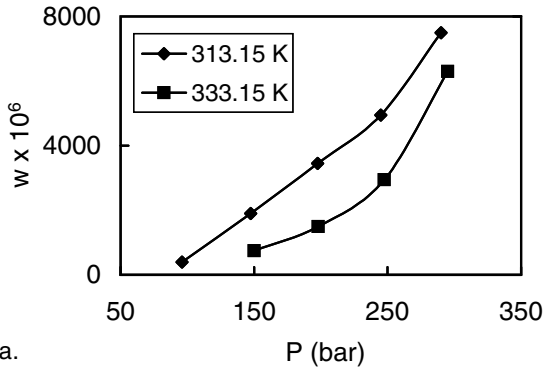
T (K)	P[1)] (bar)	S[1)] (mg/L)	y[2)] x 10^6
333	98	0.045	0.0196
	196	0.106	0.0182
	294	0.582	0.0869

1: Obtained by digitizing from the original article.
2. Calculated from S.
Synonyms: $Co(acac)_3$; Tris(2,4-pentanedionato)cobalt
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Cocoa Butter[1)] **[C-169]**

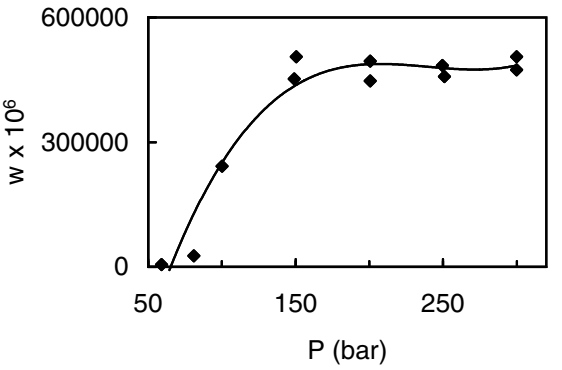
T (K)	P[2)] (bar)	w[3)] x 10^6
313.15	96	400
	148	1900
	198	3450
	245	4950
	290	7500
333.15	150	750
	198	1500
	248	2950
	295	6300



1: Extract of cocoa bean (*Theobroma cacao*).
2: Calculated from density and temperature data.
3: Obtained by digitizing the graph in the original article.
Source: Li, S.; Hartland, S. *J. Supercrit. Fluids* (1992), 5(1), 7-12.

Cocoa Butter[1)] **[C-170]**

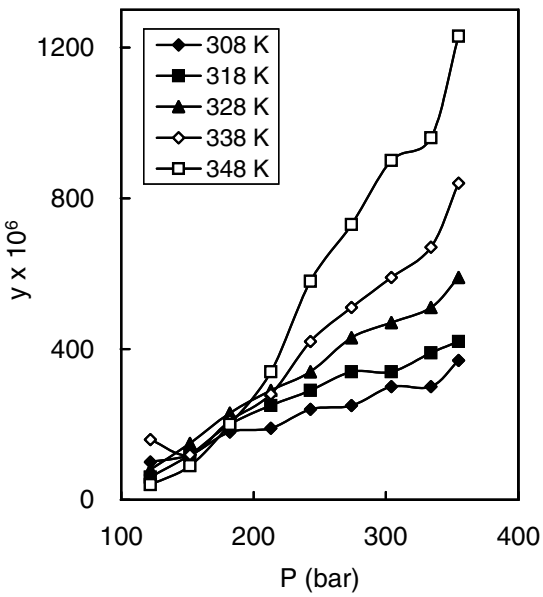
T (K)	P[2)] (bar)	Ethanol[3)] (wt%)	w[4)] x 10^6
333.15	59	20~25	5300
	81	20~25	26300
	100	20~25	242100
	149	20~25	452600
	150	20~25	505300
	201	20~25	447400
	201	20~25	494700
	251	20~25	457900
	250	20~25	484200
	300	20~25	473700
	300	20~25	505300



1: Extract of cocoa bean (*Theobroma cacao*).
2: Calculated from density and temperature data.
3: Cosolvent in CO_2 on a solute-free basis.
4: Obtained by digitizing the graph in the original article.
Source: Li, S.; Hartland, S. *J. Supercrit. Fluids* (1992), 5(1), 7-12.

Codeine ($C_{18}H_{21}NO_3$; MW=299.36) **[C-171]**

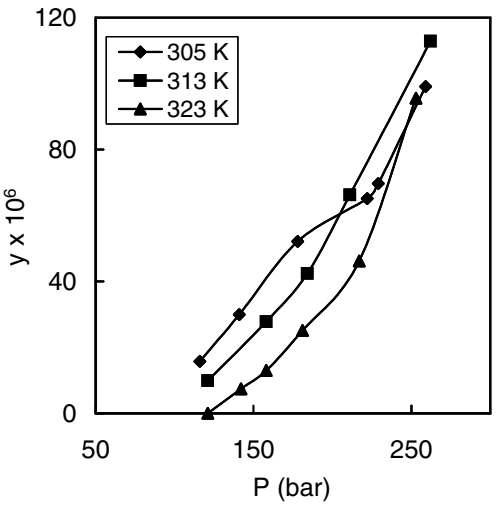
T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.53	100
	152	0.69	120
	182	1.05	180
	213	1.13	190
	243	1.45	240
	274	1.56	250
	304	1.87	300
	334	1.96	300
	355	2.40	370
318	122	0.28	60
	152	0.62	120
	182	1.08	200
	213	1.43	250
	243	1.67	290
	274	2.00	340
	304	2.09	340
	334	2.44	390
	355	2.65	420
328	122	0.29	80
	152	0.65	150
	182	1.15	230
	213	1.54	290
	243	1.85	340
	274	2.45	430
	304	2.71	470
	334	3.03	510
	355	3.53	590
338	122	0.44	160
	152	0.48	120
	182	0.92	210
	213	1.36	280
	243	2.17	420
	274	2.73	510
	304	3.25	590
	334	3.78	670
	355	4.85	840
348	122	0.10	40
	152	0.30	90
	182	0.78	200
	213	1.51	340
	243	2.75	580
	274	3.66	730
	304	4.71	900
	334	5.22	960
	355	7.97	1230



Synonym: Methylmorphine
Source: Yamini, Y.; Hassan, J.; Haghgo, S. *J. Chem. Eng. Data* (2001), 46(2), 451-455.

Coenzyme Q10 ($C_{59}H_{90}O_4$; MW=863.34) **[C-172]**

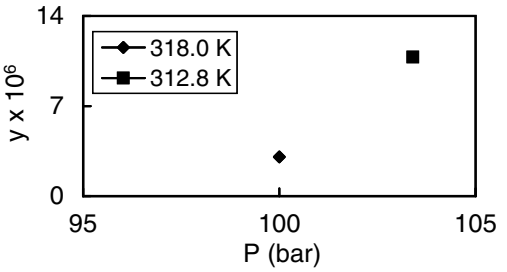
T (K)	P (bar)	S (g/L)	y x 10^6
305	116	0.24	15.7
	141	0.48	29.9
	178	0.88	52.1
	222	1.15	65.1
	229	1.25	69.7
	259	1.79	99.1
313	121	0.14	9.90
	158	0.43	27.8
	184	0.69	42.4
	211	1.10	66.2
	262	1.97	112.9
323	121	0.0	00
	142	0.10	7.4
	158	0.18	13.0
	181	0.37	25.1
	217	0.74	46.2
	253	1.56	95.6



Synonym: Ubiquinone 10; (all-*E*)-2-(3,7,11,15,19,23, 27,31,35,39-Decamethyl-2,6,10,14,18,22,26,30,34,38-tetracontadecaenyl)-5,6-dimethoxy-3-methyl-*p*-benzoquinone
Source: Matias, A. A.; Nunes, A. V. M.; Casimiro, T.; Duarte, C. M. M. *J. Supercrit. Fluids* (2004), 28(2-3), 201-206.

Copper bis(acetylacetonate) ($C_{10}H_{14}CuO_4$; FW=261.76) **[C-173]**

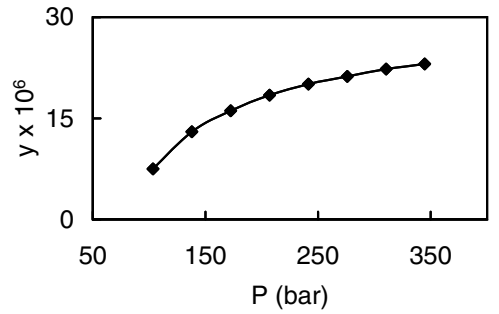
T(K)	P (bar)	y x 10^6
318.0	100.0	3.04
312.8	103.4	10.80



Synonyms: Bis(2,4-pentane dionato)copper; $Cu(acac)_2$
Source: Guigard, S. E.; Hayward, G. L.; Zytner, R. G.; Stiver, W. H. *Fluid Phase Equil.* (2001), 187-188, 233-246.

Copper bis(acetylacetonate) ($C_{10}H_{14}CuO_4$; FW=261.76) **[C-174]**

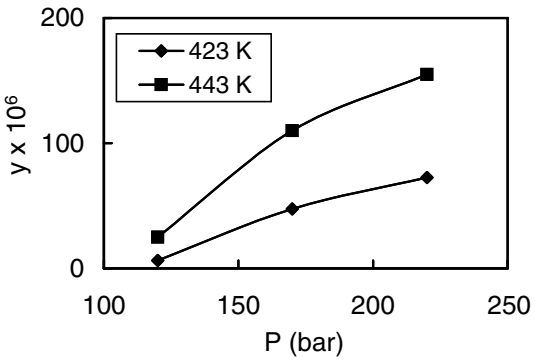
T (K)	P (bar)	y x 10^6
313.15	103.4	7.5
	137.9	13.0
	172.4	16.1
	206.8	18.5
	241.3	20.1
	275.8	21.2
	310.3	22.3
	344.7	23.1



Synonyms: Bis(2,4-pentanedionato)copper; $Cu(acac)_2$
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(acetylacetonate) ($C_{10}H_{14}CuO_4$; FW=261.76) **[C-175]**

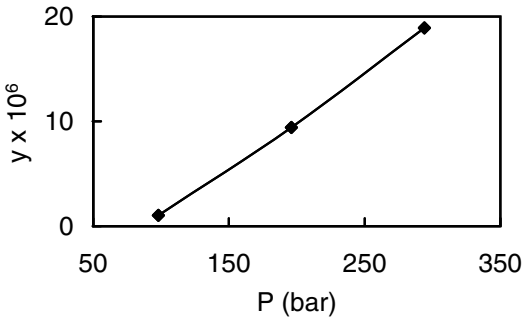
T (K)	P (bar)	y x 10^6
423.15	120	6.2
	170	47.5
	220	72.5
443.15	120	25.0
	170	110.0
	220	155.0



Synonyms: Bis(2,4-pentane dionato)copper; $Cu(acac)_2$
Source: M'Hamdi, R.; Bocquet, J.; Chhor, K.; Pommier, C. *J. Supercrit. Fluids* (1992), 5(1), 55-9.

Copper bis(acetylacetonate) ($C_{10}H_{14}CuO_4$; FW=261.76) **[C-176]**

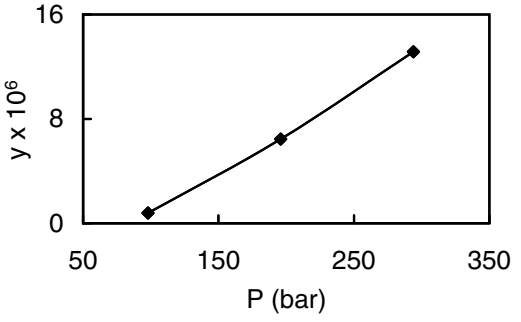
T (K)	P[1] (bar)	S[1] (mg/L)	y[2] x 10^6
333	98	0.011	1.0
	196	0.103	9.4
	294	0.207	18.9



1: Obtained by digitizing the graph in the original article. S is expressed in mg/liter of gas at atmospheric pressure.
2. Calculated from S, assuming that the gas volume is based on room temperature (20˚C).
Synonym: Bis(2,4-pentane dionato)copper; $Cu(acac)_2$
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.

Copper bis(acetylacetonate) dihydrate ($C_{10}H_{14}CoO_4{\cdot}2H_2O$; FW=293.18[1]) **[C-177]**

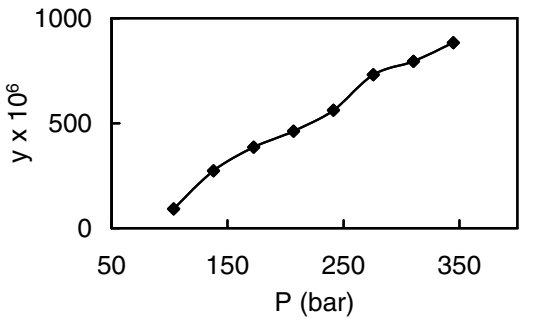
T (K)	P[2] (bar)	S[2] (mg/L)	y[3] x 10^6
333	98	0.0094	0.77
	196	0.0790	6.45
	294	0.1610	13.14



1: The weight of dihydrate is included.
2: Obtained by digitizing the graph in the original article. S is expressed in mg/liter of gas at atmospheric pressure.
2. Calculated from S, assuming that the gas volume is based on room temperature (20˚C).
Synonym: Bis(2,4-pentanedionato)copper dihydrate
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.

Copper bis(2,6-dimethylheptane-3,5-dionate) ($C_{18}H_{30}CuO_4$; FW=373.98) **[C-178]**

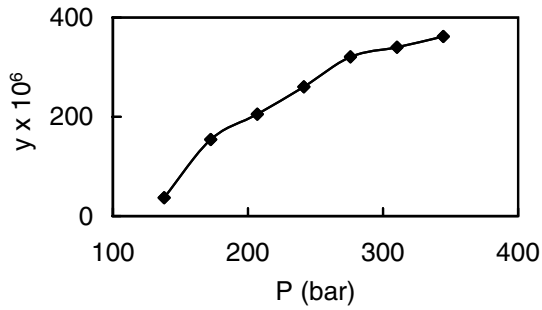
T (K)	P (bar)	y x 10^6
313.15	103.4	91.7
	137.9	272.6
	172.4	386.0
	206.8	461.9
	241.3	561.3
	275.8	730.5
	310.3	794.2
	344.7	884.1



Synonyms: Bis(2,6-dimethylheptane-3,5-dionato)copper; $Cu(dibm)_2$
J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.
Source : Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(5,5-dimethylhexane-2,4-dionate)[1] ($C_{16}H_{26}CuO_4$; FW=345.93) **[C-179]**

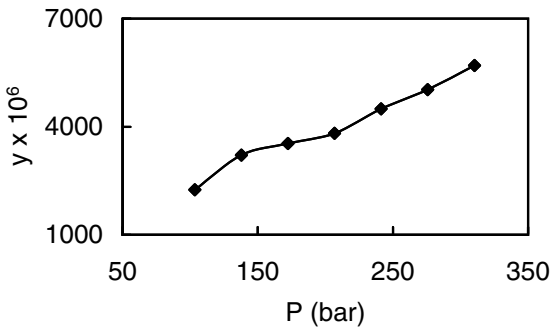
T (K)	P (bar)	y x 10^6
313.15	137.9	37.0
	172.4	154.0
	206.8	205.1
	241.3	260.4
	275.8	321.1
	310.3	340.1
	344.7	362.1



1: In the source article the compound is named Bis(1,1-dimethylhexane-3,5-dionato)copper(II), which is not a correct name.
Synonyms: Bis(5,5-dimethylhexane-2,4-dionato)copper; $Cu(dmhd)_2$

Copper bis(1,1,1,6,6,6-hexafluoroacetylacetonate) ($C_{10}H_2CuF_{12}O_4$; FW=477.65) **[C-180]**

T (K)	P (bar)	y x 10^6
313.15	103.4	2251
	137.9	3211
	172.4	3535
	206.8	3820
	241.3	4497
	275.8	5027
	310.3	5699



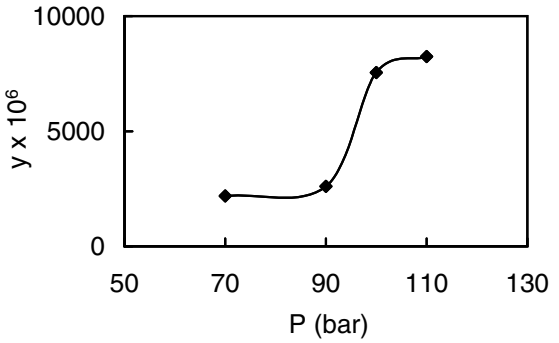
Synonyms: Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper; $Cu(hfa)_2$
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(1,1,1,6,6,6-hexafluoroacetylacetonate)hydrate **[C-181]**

($C_{10}H_2CuF_{12}O_4H_2O$; FW=495.67)

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
313	70	1.0	2190
	90	3.0	2610
	100	11.0	7550
	110	13.0	8240

1: Calculated from M.



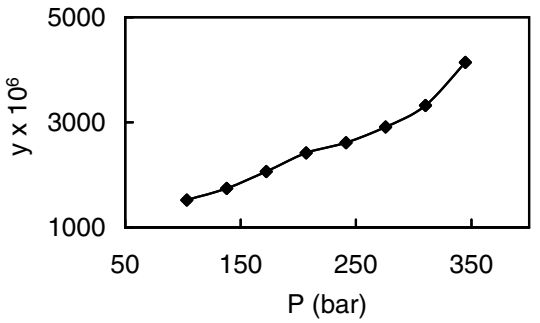
Synonyms: Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper hydrate; $Cu(hfa)_2\,H_2O$

Source: Fedotov, A. N.; Simonov, A. P.; Popov, V. K.; Bagratashvili, V. N. *J. Phys. Chem. B* (1997),101(15), 2929-2932.

Copper bis(1,1,1,6,6,6-hexafluoroacetylacetonate)hydrate **[C-182]**

($C_{10}H_2CuF_{12}O_4H_2O$; FW=495.67)

T (K)	P (bar)	y x 10^6
313.15	103.4	1520
	137.9	1741
	172.4	2063
	206.8	2417
	241.3	2610
	275.8	2913
	310.3	3320
	344.7	4140

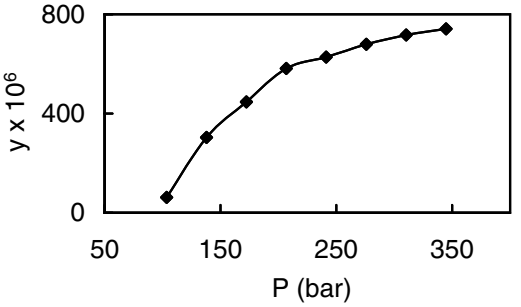


Synonyms: Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper hydrate; $Cu(hfa)_2\,H_2O$

Source: Lagalante, A. F.; Hansen, B.N. Bruno,T.J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781- 5785.

Copper bis(2,2,6,6-tetramethylheptane-3,5-dionate) ($C_{22}H_{38}CuO_4$; FW=430.09) **[C-183]**

T (K)	P (bar)	y x 10^6
313.15	103.4	61.7
	137.9	303.5
	172.4	446.9
	206.8	582.4
	241.3	627.4
	275.8	679.7
	310.3	716.4
	344.7	741.5

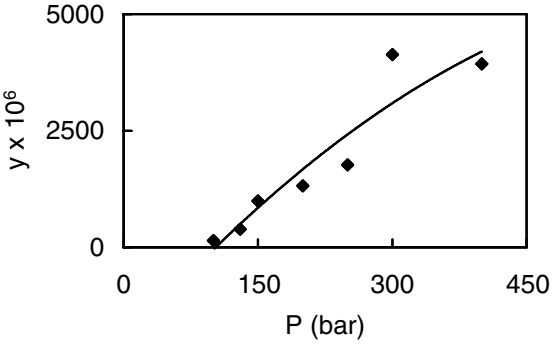


Synonym: Bis(2,2,6,6-tetramethyl heptane-3,5-dionato)copper; $Cu(thd)_2$

Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T.J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(2,2,6,6-tetramethylheptane-3,5-dionate) ($C_{22}H_{38}CuO_4$; FW=430.09) **[C-184]**

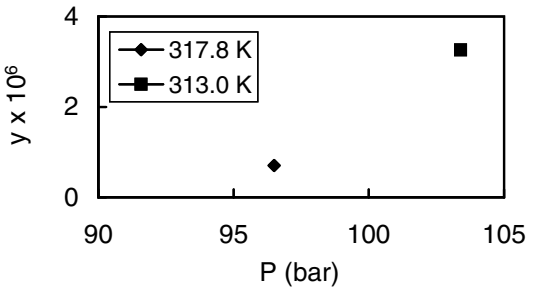
T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
313.15	100	89	141
	130	289	388
	150	778	994
	200	1110	1317
	250	1560	1768
	300	3780	4131
	400	3780	3933



1: Obtained by digitizing the graph in the original article.
Synonym: Bis(2,2,6,6-tetramethyl heptane-3,5-dionato)copper; $Cu(thd)_2$
Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: Supercritical Fluids as Solvents and Reaction Media, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340.

Copper bis(thenoyltrifluoroacetonate) ($C_{16}H_8CuF_6O_4S_2$; FW=505.89) **[C-185]**

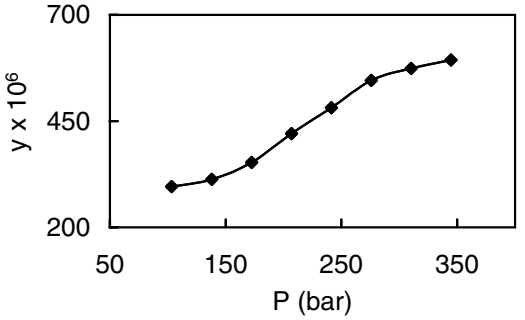
T(K)	P(bar)	y x 10^6
317.8	96.5	0.70
313.0	103.4	3.26



Synonym: Bis[4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedionato]copper
Source: Guigard, S. E.; Hayward, G. L.; Zytner, R. G.; Stiver, W. H. *Fluid Phase Equil.* (2001),187-188, 233-246.

Copper bis(1,1,1-trifluoroacetylacetonate) ($C_{10}H_8CuF_6O_4$; FW=369.71) **[C-186]**

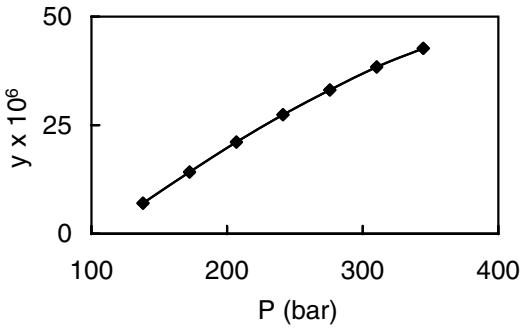
T (K)	P (bar)	y x 10^6
313.15	103.4	296.0
	137.9	313.3
	172.4	352.7
	206.8	420.8
	241.3	481.8
	275.8	546.2
	310.3	573.8
	344.7	593.8



Synonyms: Bis(1,1,1-trifluoropentane-2,4-dionato)copper; $Cu(tfa)_2$
Source: Lagaiante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(1,1,1-trifluoro-4-phenylbutane-2,4-dionate) **[C-187]**
($C_{20}H_{12}CuF_6O_4$; FW=493.85)

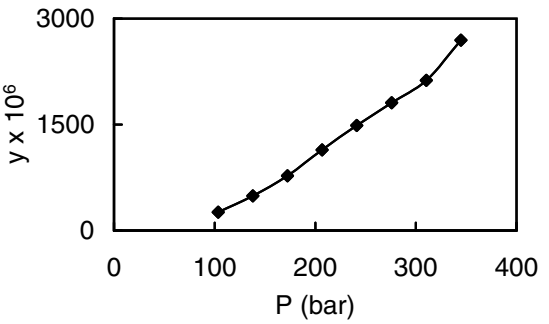
T (K)	P (bar)	y x 10^6
313.15	137.9	7.02
	172.4	14.24
	206.8	21.13
	241.3	27.40
	275.8	33.13
	310.3	38.43
	344.7	42.69



Synonyms: Bis(4,4,4-trifluoro-1-phenyl butane-1,3-dionato)copper; $Cu(tfbzm)_2$
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper bis(2,2,7-trimethyloctane-3,5-dionate) ($C_{22}H_{38}CuO_4$; FW=430.09) **[C-188]**

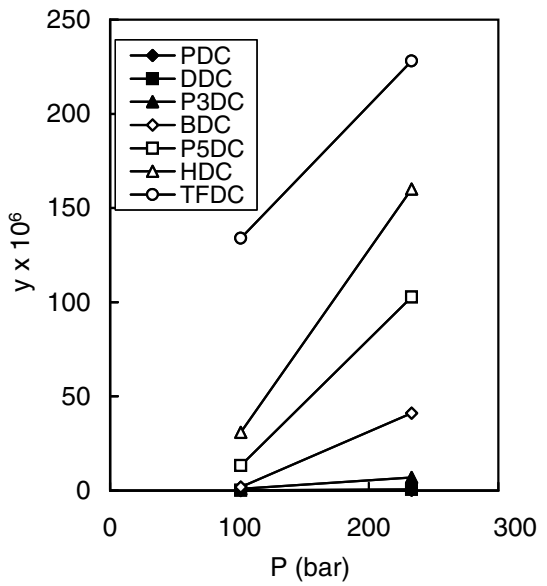
T (K)	P (bar)	y x 10^6
313.15	103.4	260
	137.9	490
	172.4	775
	206.8	1141
	241.3	1488
	275.8	1810
	310.3	2128
	344.7	2697



Synonym: Bis(2,2,7-trimethyloctane-3,-5 dionato)copper; $Cu(tod)_2$
Source: Lagalante, A. F.; Hansen, B. N.; Bruno, T. J.; Sievers, R. E. *Inorg. Chem.* (1995), 34(23), 5781-5785.

Copper dithiocarbamate Complexes **[C-189]**

T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
Copper Pyrrolidinedithiocarbamate (PDC) ($C_{10}H_{16}CuN_2S_4$; FW=356.04)			
333.15	101	0.41	0.06
	233	4.00	0.23
Copper bis(diethyldithiocarbamate) (DDC) ($C_{10}H_{20}CuN_2S_4$; FW=360.07)			
333.15	101	1.4	0.21
	233	11.0	0.63
Copper bis(dipropyldithiocarbamate) (P3DC) ($C_{14}H_{28}CuN_2S_4$; FW=416.18)			
333.15	101	6.3	0.93
	233	120.0	6.90
Copper bis(dibutyldithiocarbamate) (BDC) ($C_{18}H_{36}CuN_2S_4$; FW=472.28)			
333.15	101	13	1.91



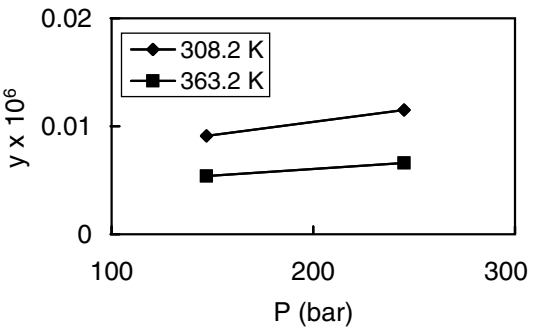
	233	720	41.10
Copper bis(dipentyldithiocarbamate) (P5DC)			
($C_{22}H_{44}CuN_2S_4$; FW=528.39)			
333.15	101	90	13.30
	233	1800	102.80
Copper bis(dihexyldithiocarbamate) (HDC)			
($C_{26}H_{52}CuN_2S_4$; FW=584.50)			
333.15	101	210	30.90
	233	2800	160.00
Copper bis[bis(trifluoroethyl)dithiocarbamate] (TFDC)			
($C_{10}H_8CuF_{12}N_2S_4$; FW=575.95)			
333.15	101	910	134.00
	233	4000	228.00

1: Calculated from M.
Source: Wai, C. M.; Wang, S.; Yu, J.-J. *Anal. Chem.* (1996), 68(19), 3516-3519.

Copper(II) hydrogen arsenate ($AsHCuO_4$; MW=203.47) **[C-190]**

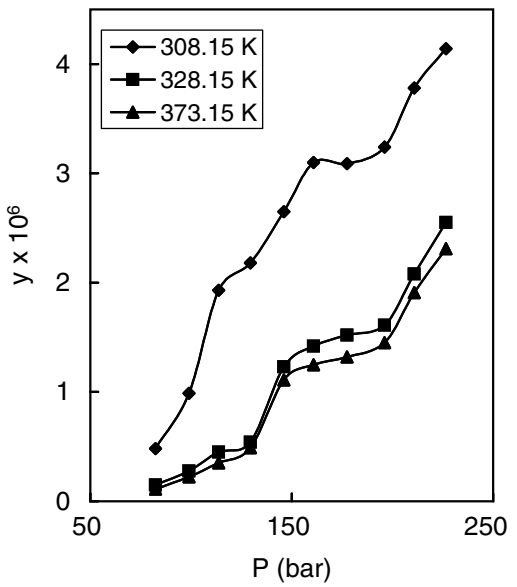
T (K)	P (bar)	W x 10^5 (g/kg CO_2)	y x 10^6
308.2	147	4.11	0.0091
	245	5.20	0.0115
363.2	147	2.41	0.0054
	245	2.96	0.0066

Source: Takeshita, Y.; Sato, Y.
J. Supercrit. Fluids (2002), 24(2), 91-101.



Cortisone acetate ($C_{23}H_{30}O_6$; MW=402.48) **[C-191]**

T (K)	P (bar)	y x 10^6
308.15	82.4	0.48
	99.0	0.99
	113.8	1.93
	129.4	2.18
	146.1	2.65
	160.8	3.10
	177.5	3.09
	196.1	3.24
	210.8	3.78
	226.5	4.14
328.15	82.4	0.15
	99.0	0.28
	113.8	0.45
	129.4	0.54
	146.1	1.23
	160.8	1.42
	177.5	1.52
	196.1	1.61

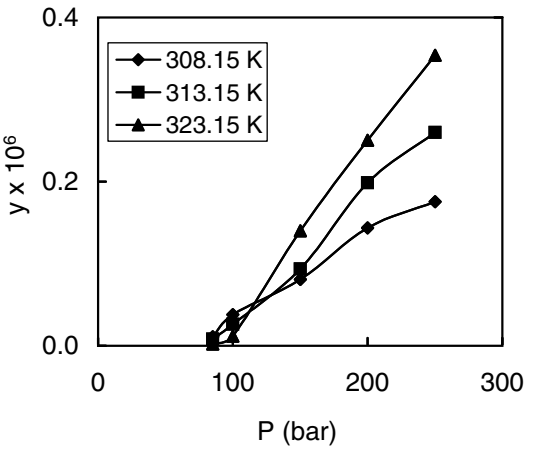


	210.8	2.08
	226.5	2.55
373.15	82.4	0.11
	99.0	0.23
	113.8	0.35
	129.4	0.49
	146.1	1.11
	160.8	1.25
	177.5	1.32
	196.1	1.45
	210.8	1.91
	226.5	2.31

Synonym: 21-Acetoxy-17α-hydroxypregn-4-ene-3,11,20-trione; Cortisone 21-acetate
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

***o*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-192]**

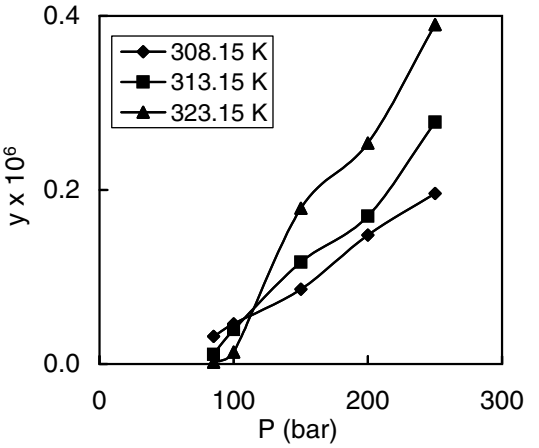
T (K)	P (bar)	y x 10^6
308.15	85	0.011
	100	0.038
	150	0.081
	200	0.144
	250	0.175
313.15	85	0.008
	100	0.026
	150	0.094
	200	0.199
	250	0.260
323.15	85	0.002
	100	0.012
	150	0.140
	200	0.250
	250	0.354



Synonyms: 2-Coumaric acid; 2-Hydroxycinnamic acid
Source: Choi, E. S. ; Noh, M. J. ; Yoo, K.-P. *J. Chem. Eng. Data* (1998), 43(1), 6-8.

***o*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-193]**

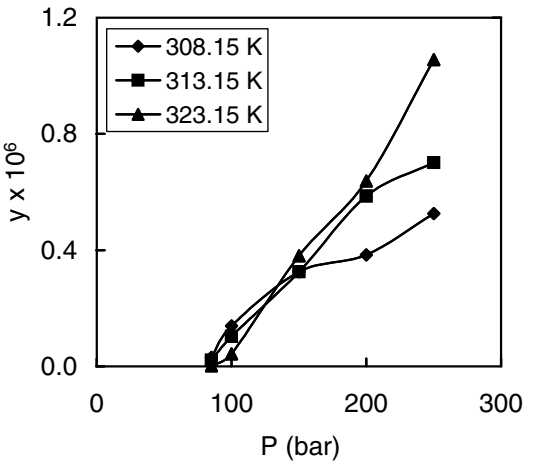
T (K)	P (bar)	y x 10^6
308.15	85	0.032
	100	0.046
	150	0.086
	200	0.148
	250	0.196
313.15	85	0.011
	100	0.039
	150	0.117
	200	0.170
	250	0.278
323.15	85	0.002
	100	0.014
	150	0.179
	200	0.254
	250	0.390



Synonyms: 2-Coumaric acid;*2*-Hydroxycinnamic acid
Source: Choi, E. S.; Shin, H. Y.; You, S.-S.; Yoo, K.-P.
Korean J. Chem. Eng. (1997), 14(4), 292-296.

***m*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-194]**

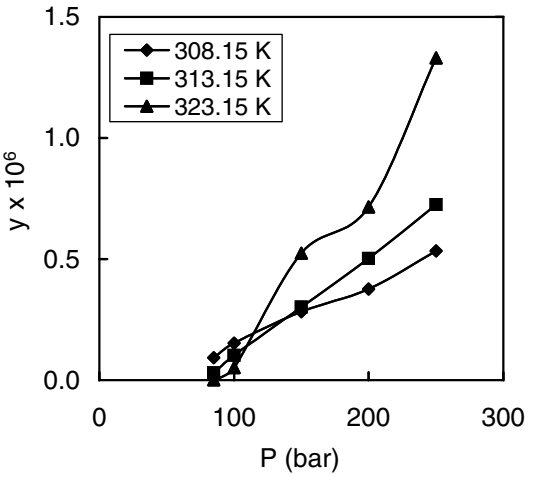
T (K)	P (bar)	y x 10^6
308.15	85	0.031
	100	0.139
	150	0.325
	200	0.384
	250	0.526
313.15	85	0.021
	100	0.103
	150	0.326
	200	0.586
	250	0.701
323.15	85	0.002
	100	0.043
	150	0.381
	200	0.638
	250	1.056



Synonyms: 3-Coumaric acid; 3-Hydroxycinnamic acid
Source: Choi, E. S. ; Noh, M. J. ; Yoo, K.-P.
J. Chem. Eng. Data (1998), 43(1), 6-8.

***m*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-195]**

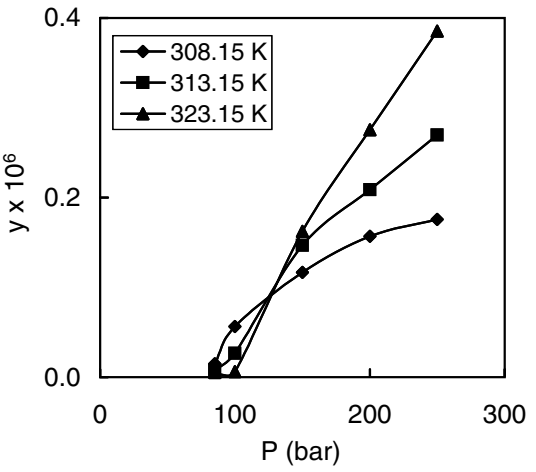
T (K)	P (bar)	y x 10^6
308.15	85	0.092
	100	0.153
	150	0.283
	200	0.376
	250	0.534
313.15	85	0.030
	100	0.102
	150	0.302
	200	0.502
	250	0.725
323.15	85	0.002
	100	0.052
	150	0.524
	200	0.715
	250	1.330



Synonyms: 3-Coumaric acid; 3-Hydroxycinnamic acid
Source: Choi, E. S.; Shin, H. Y.; You, S.-S.; Yoo, K.-P.
Korean J. Chem. Eng. (1997), 14(4), 292-296.

***p*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-196]**

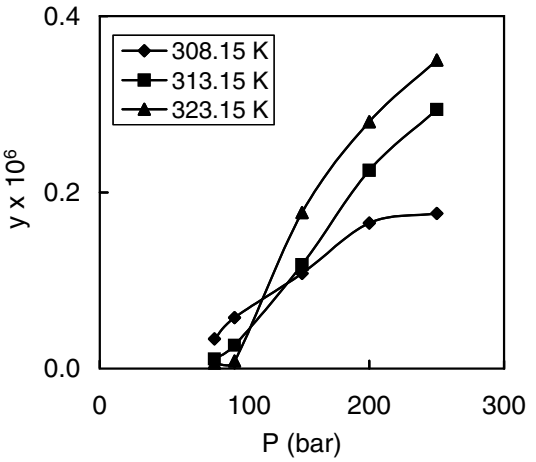
T (K)	P (bar)	y x 10^6
308.15	85	0.015
	100	0.056
	150	0.117
	200	0.157
	250	0.176
313.15	85	0.008
	100	0.027
	150	0.147
	200	0.209
	250	0.270
323.15	85	0.005
	100	0.006
	150	0.163
	200	0.275
	250	0.385



Synonyms: 4-Coumaric acid; 4-Hydroxycinnamic acid
Source: Choi, E. S. ; Noh, M. J. ; Yoo, K.-P.
J. Chem. Eng. Data (1998), 43(1), 6-8.

***p*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-197]**

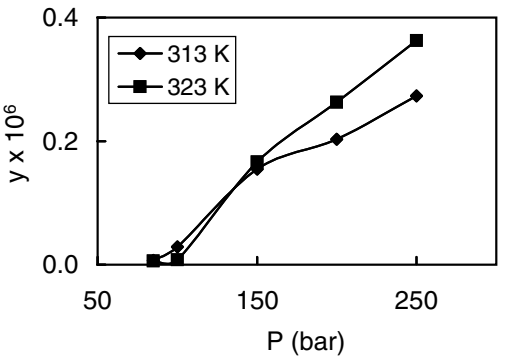
T (K)	P (bar)	y x 10^6
308.15	85	0.034
	100	0.058
	150	0.108
	200	0.165
	250	0.176
313.15	85	0.011
	100	0.026
	150	0.118
	200	0.225
	250	0.294
323.15	85	0.006
	100	0.009
	150	0.177
	200	0.280
	250	0.350



Synonyms: 4-Coumaric acid; 4-Hydroxycinnamic acid
Source: Choi, E. S.; Shin, H. Y.; You, S.-S.; Yoo, K.-P. *Korean J. Chem. Eng.* (1997), 14(4), 292-296.

***p*-Coumaric acid** ($C_9H_8O_3$; MW=164.16) **[C-198]**

T (K)	P (bar)	y x 10^6
313	85	0.007
	100	0.029
	150	0.155
	200	0.203
	250	0.273
323	85	0.006
	100	0.008
	150	0.166
	200	0.263
	250	0.363

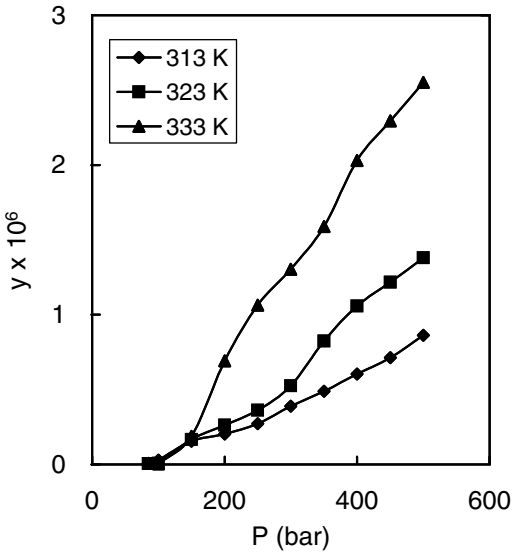


Synonyms: 4-Coumaric acid; 4-Hydroxycinnamic acid
Source: Murga,R.;Sanz,M.T.;Beltran,S.; Cabezas, J. L. *J. Supercrit. Fluids* (2002), 23(2), 113-121.

[C-199]

***p*-Coumaric acid** ($C_9H_8O_3$; MW=164.16)

T (K)	P (bar)	y x 10^6
313	85	0.007
	100	0.029
	150	0.155
	200	0.203
	250	0.273
	300	0.389
	350	0.488
	400	0.603
	450	0.713
	500	0.863
323	85	0.006
	100	0.008
	150	0.166
	200	0.263
	250	0.363
	300	0.526
	350	0.824
	400	1.058
	450	1.217
	500	1.380
333	100	0.003
	150	0.189
	200	0.691
	250	1.065
	300	1.303
	350	1.590
	400	2.030
	450	2.295
	500	2.552

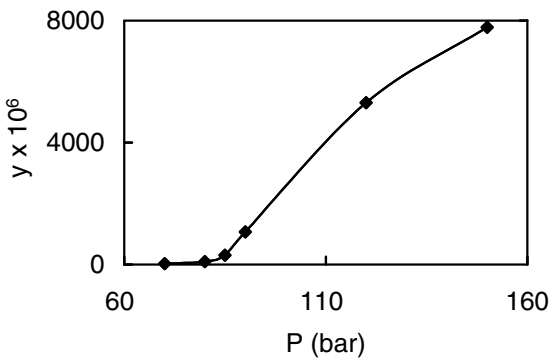


Synonyms: 4-Coumaric acid; 4-Hydroxycinnamic acid
Source: Murga,R.;Sanz,M.T.;Beltran,S.; Cabezas, J. L. *J. Supercrit. Fluids* (2003), 27(3), 239-245.

[C-200]

Coumarin ($C_9H_6O_2$; MW=146.14)

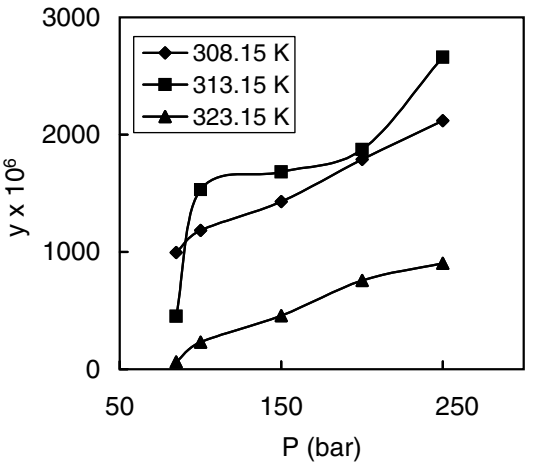
T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	70	0.18	27
	80	0.60	91
	85	1.99	303
	90	7.00	1065
	120	35.00	5304
	150	51.50	7784



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: 2*H*-1-Benzopyran-2-one
Source: Stahl, E.; Schilz, W.*Talanta*(1979), 26, 675-679.

Coumarin ($C_9H_6O_2$; MW=146.14) **[C-201]**

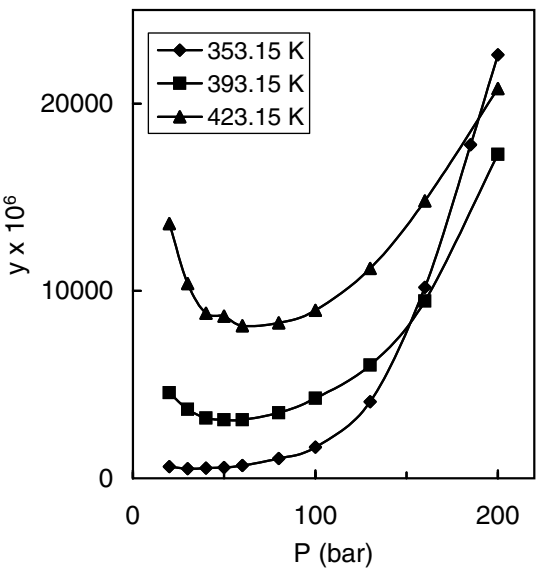
T (K)	P (bar)	y x 10^6
308.15	85	996
	100	1183
	150	1430
	200	1790
	250	2119
313.15	85	452
	100	1532
	150	1683
	200	1873
	250	2659
323.15	85	62
	100	231
	150	457
	200	756
	250	902



Synonym: 2*H*-1-Benzopyran-2-one
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S.*Korean J. Chem. Eng.* (1997), 14(5), 341-346.

***p*-Cresol**(CO_7H_8; MW=108.14) **[C-202]**

T(K)	P(bar)	y x 10^6
353.15	20	625
	30	506
	40	546
	50	578
	60	688
	80	1050
	100	1660
	130	4080
	160	10200
	185	17800
	200	22600
393.15	20	4570
	30	3680
	40	3210
	50	3120
	60	3120
	80	3490
	100	4270
	130	6040
	160	9460
	200	17300

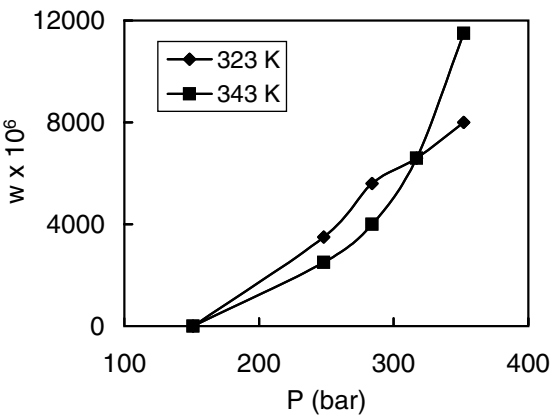


423.15	20	13600
	30	10400
	40	8810
	50	8660
	60	8140
	80	8290
	100	8960
	130	11200
	160	14800
	200	20800

Synonyms: 4-Methylphenol; 4-Cresol
Source: Lee, M.-J.; Kou, C.-F.; Cheng, J.-W.; Lin, H.-m. *Fluid Phase Equil.* (1999), 162(1-2), 211-224.

Cupuacu[1] seed fat **[C-203]**

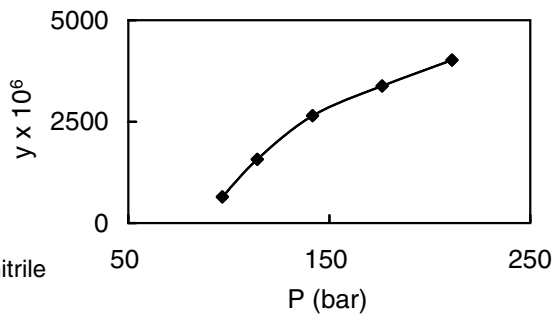
T (K)	P[2] (bar)	W[2] (g/kg)	w[3] x 10^6
323	151	0.0	0
	248	3.5	3500
	284	5.6	5600
	317	6.6	6600
	352	8.1	8000
343	151	0.0	0
	248	2.5	2500
	284	4.0	4000
	317	6.6	6600
	352	11.6	11500



1: A Brazilian Amazonian fruit (*Theobroma grandiflorum*).
2: Obtained by digitizing the graph in the original article.
3: Calculated from W.
Source: de Azevedo, A. B. A.; Kopcak, U.; Mohamed, R. S.*J. Supercrit. Fluids* (2003), 27(2), 223-237.

2-Cyanonaphthalene ($C_{11}H_7N$; MW=153.18) **[C-204]**

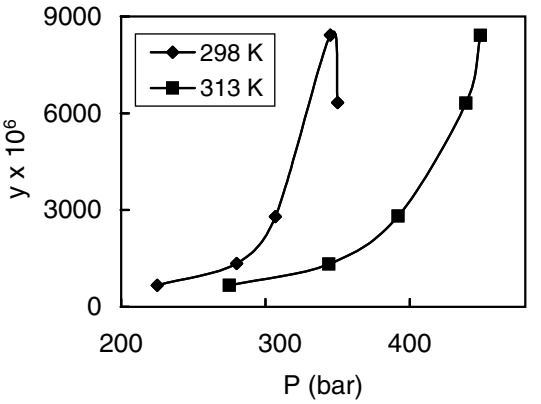
T (K)	P[1] (bar)	y[1] x 10^6
308.15	96.8	643
	114.2	1570
	141.6	2650
	176.3	3380
	211.0	4020



1: Obtained by digitizing the graph in the original article.
Synonyms: 2-Naphthonitrile; 2-Naphthalenenitrile
Source: Nakatani, T.; Ohgaki, K.; Katayama, T. *Ind. Eng. Chem. Res.* (1991), 30(6), 1362-1366.

α-Cyclodextrin octadecaacetate ($C_{72}H_{96}O_{48}$; Mw=1729.50) **[C-205]**

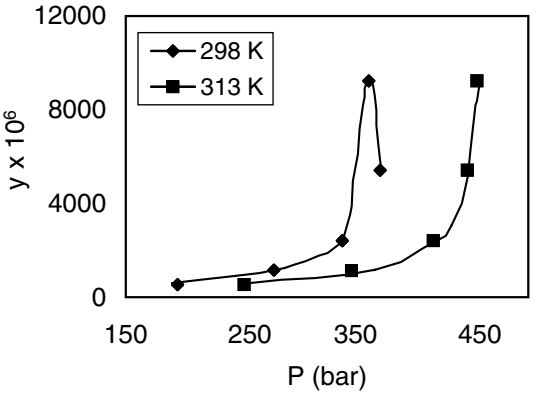
T (K)	P[1)] (bar)	y[1)] x 10^6
298	225.0	663
	280.0	1344
	306.8	2798
	345.0	8427
	350.0	6327
313	275.0	663
	344.0	1327
	392.0	2811
	438.9	6310
	449.0	8413



1: Obtained by digitizing the graph in the original article.
Synonym: 2,3,6-Triacetyl-α-cyclodextrin
Source: Potluri, V. K.; Hamilton, A. D.; Karanikas, C. F.; Bane, S. E., Xu, J.; Beckman, E. J.; Enick, R. M. *Fluid Phase Equil.* (2003), 211, 211–217.

β-Cyclodextrin heneicosaacetate ($C_{84}H_{112}O_{56}$; Mw=2017.75) **[C-206]**

T (K)	P[1)] (bar)	y[1)] x 10^6
298	195.0	530
	278.8	1161
	338.2	2411
	361.3	9226
	371.2	5417
313	253.0	530
	346.5	1131
	417.5	2411
	447.2	5417
	455.4	9226

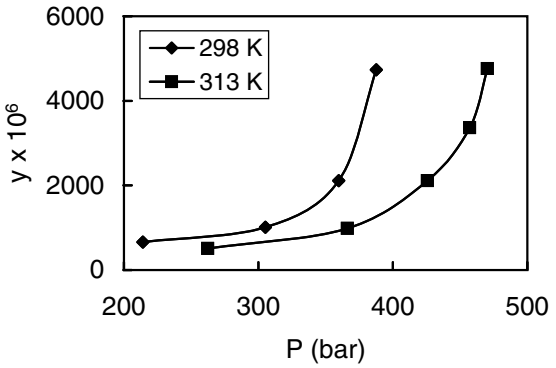


1: Obtained by digitizing the graph in the original article.
Synonym: 2,3,6-Triacetyl-β-cyclodextrin
Source: Potluri, V. K.; Hamilton, A. D.; Karanikas, C. F.; Bane, S. E., Xu, J.; Beckman, E. J.; Enick, R. M. *Fluid Phase Equil.* (2003), 211, 211–217.

γ-Cyclodextrin tetracosaacetate ($C_{96}H_{128}O_{64}$; Mw=2306.03) **[C-207]**

T (K)	P[1)] (bar)	y[1)] x 10^6
298	214.0	663
	305.2	1012
	359.7	2113
	387.7	4732
313	262.3	506
	366.3	982
	425.7	2113
	457.1	3363
	470.3	4762

1: Obtained by digitizing the graph in the original article.

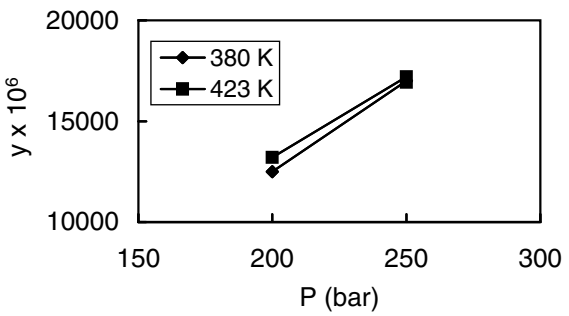


Synonym: 2,3,6-Triacetyl-γ-cyclodextrin
Source: Potluri, V. K.; Hamilton, A. D.; Karanikas, C. F.; Bane, S. E., Xu, J.; Beckman, E. J.; Enick, R. M. *Fluid Phase Equil.* (2003), 211, 211–217.

Cyclododecene ($C_{12}H_{22}$; MW=166.30) **[C-208]**

T (K)	P (bar)	y x 10^6
380	200	12500
	250	17000
423	200	13200
	250	17200

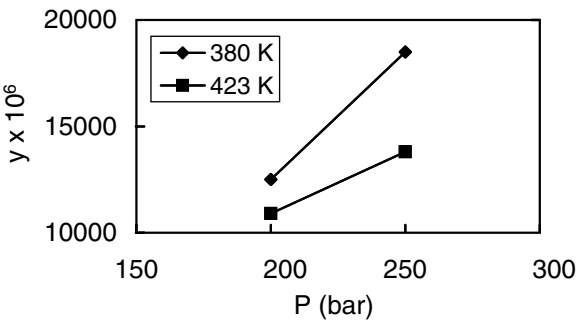
Source: De Jong, A. ; Eftaxias, A. ; Trabelsi, F. ; Recasens, F. ; Sueiras, J.; Stueber, F. *Ind. Eng. Chem. Res.* (2001), 40(14), 3225-3229.



1,5,9-Cyclododecatriene ($C_{12}H_{18}$; MW=162.27) **[C-209]**

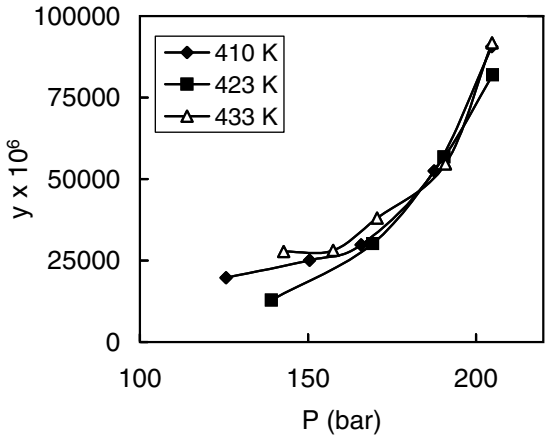
T (K)	P (bar)	y x 10^6
380	200	12500
	250	18500
423	200	10900
	250	13800

Source : De Jong, A. ; Eftaxias, A. ; Trabelsi, F. ; Recasens, F. ; Sueiras, J.; Stueber, F. *Ind. Eng. Chem. Res.* (2001), 40(14), 3225-3229.



Cyclohexanone ($C_6H_{10}O$; MW=98.14) **[C-210]**

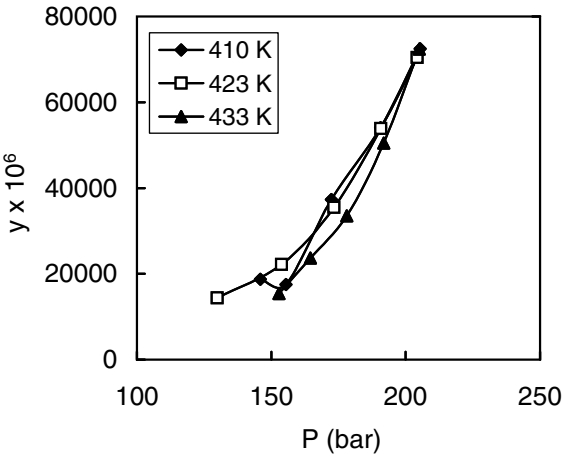
T (K)	P (bar)	y x 10^6
410	125.6	19700
	150.5	25100
	165.8	29800
	187.5	52500
	204.7	90600
423	139.1	12900
	169.3	30200
	190.5	56800
	204.9	82000
433	142.8	27800
	157.5	28100
	170.6	38000
	190.9	54600
	204.8	91800



Source: Mukhopadhyay, M.; Srinivas, P.*Ind. Eng. Chem. Res.* (1996), 35(12), 4713-4717.

Cyclohexanol ($C_6H_{12}O$; MW=100.16) **[C-211]**

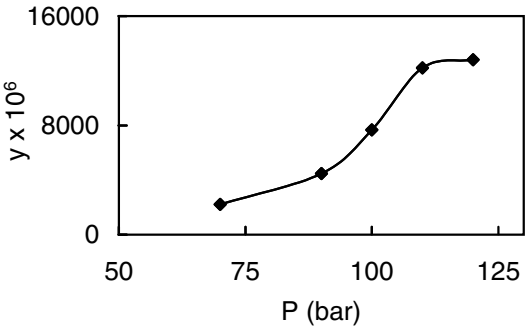
T (K)	P (bar)	y x 10^6
410	145.9	18700
	155.5	17500
	172.3	37300
	190.6	54100
	205.4	72500
423	129.9	14400
	153.8	22200
	173.3	35500
	190.8	53900
	204.3	70400
433	152.8	15400
	164.6	23700
	178.1	33500
	191.8	50500
	205.1	72400



Source: Mukhopadhyay, M.; Srinivas, P. *Ind. Eng. Chem. Res.* (1996), 35(12), 4713-4717.

Cyclopentadienylmanganese tricarbonyl ($C_8H_5MnO_3$; FW=204.06) **[C-212]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
313	70	1	2220
	90	5	4470
	100	11	7660
	110	19	12200
	120	21	12800



1: Calculated from M.
Synonym: Tricarbonyl(η^5-cyclopentadienyl) manganese
Source: Fedotov, A. N.;Simonov, A. P.; Popov, V. K.; Bagratashvili, V. N. *J. Phys. Chem. B* (1997),101(15), 2929-2932.

Cyclopentadienyl metal Complexes **[C-213]**

Name of compound	Formula	FW	T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
Chloro(η^5-cyclopentadienyl) dioxomolybdenum	$C_5H_5ClMoO_2$	228.48	313	128	1550	91.90
Dichlorobis(uη^5-cyclopentadienyl) zirconium	$C_{10}H_{10}Cl_2Zr$	292.32	313	104	470	31.30
Carbonyldiiodo(η^5-cyclopentadienyl)cobalt	$C_6H_5CoI_2O$	405.85	313	95	70	5.22

1: Calculated from M.
Source: Montilla, F.; Rosa, V.; Prevett, C.; Aviles, T.; Nunes da Ponte, M.; Masi, D.; Mealli, C. *Dalton Trans.* (2003), (11), 2170-2176.

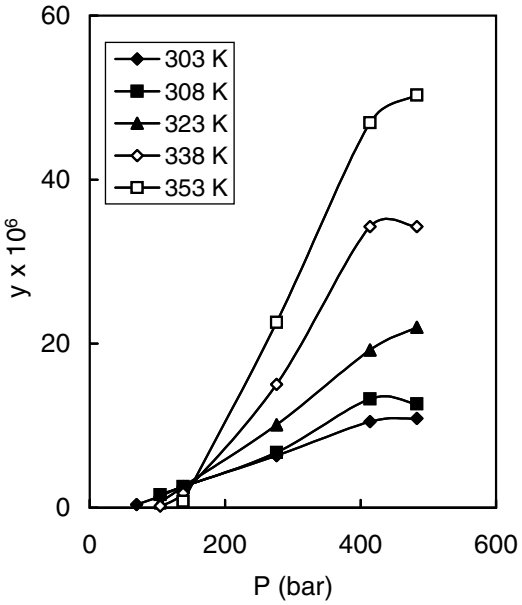
Cyclopentadienyl trimethylsilyl metal Complexes **[C-214]**

Name of compound	Formula	FW	T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
Chloro[η^5-(trimethylsilyl)cyclopentadienyl] dioxomolybdenum	$C_8H_{13}Cl_{22}MoOSi$	336.91	313	102	5810	393.65
Dichlorobis[η^5-(trimethylsilyl)cyclopentadienyl] zirconium	$C_{16}H_{26}Cl_2Si_2Zr$	434	313	103	1380	92.68
Carbonyldiiodo[η^5-(trimethylsilyl) cyclopentadienyl]cobalt	$C_9H_{13}CoI_2OSi$	477.82	313	99	4102	8.71

1: Calculated from M.
Source: Montilla, F.; Rosa, V.; Prevett, C.; Aviles, T.; Nunes da Ponte, M.; Masi, D.; Mealli, C. *Dalton Trans.* (2003), (11), 2170-2176.

Cyclotrimethylenetrinitramine ($C_3H_6N_6O_6$; MW=222.12) **[C-215]**

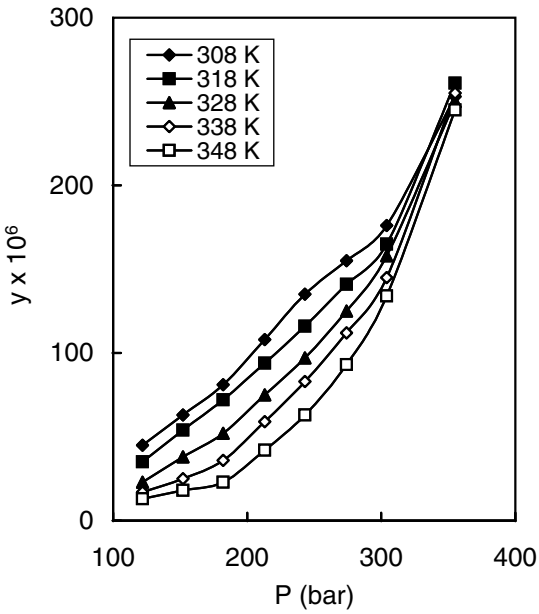
T (K)	P (bar)	W (g/kg)	y[1] x 10^6
303	69	0.002	0.40
	104	0.007	1.39
	138	0.013	2.58
	276	0.032	6.34
	414	0.053	10.50
	483	0.055	10.90
308	104	0.008	1.59
	138	0.013	2.58
	276	0.034	6.74
	414	0.067	13.27
	483	0.064	12.68
323	104	0.003	0.59
	138	0.013	2.58
	276	0.051	10.10
	414	0.097	19.22
	483	0.111	21.99
338	104	0.001	0.20
	138	0.009	1.78
	276	0.076	15.06
	414	0.173	34.28
	483	0.173	34.28
353	138	0.004	0.79
	276	0.114	22.59
	414	0.237	46.96
	483	0.254	50.32



1: Calculated from W.
Synonyms: 1,3,5-Trinitrohexahydro-*s*-triazine; RDX
Source: Morris, J. B. *J. Chem. Eng. Data* 43 (1998), 43(2), 269–273.

Cyproterone acetate ($C_{24}H_{29}ClO_4$; MW=416.94) **[C-216]**

T (K)	P (bar)	y x 10^6
308	122	45
	152	63
	182	81
	213	108
	243	135
	274	155
	304	176
	355	253
318	122	35
	152	54
	182	72
	213	94
	243	116
	274	141
	304	165
	355	261
328	122	23
	152	38
	182	52
	213	75
	243	97
	274	125
	304	158
	355	250
338	122	17
	152	25
	182	36
	213	59
	243	83
	274	112
	304	145
	355	255
348	122	13
	152	18
	182	23
	213	42
	243	63
	274	93
	304	134
	355	245



Synonym: 6-Chloro-1,2α-methylene-6-dehydro-17α-hydroxyprogesterone acetate

Source: Asghari-Khiavi, M.; Yamini, Y.; Farajzadeh, M. A. *J. Supercrit. Fluids* (2004), 30(2), 111-117.

4 Solubility Data D

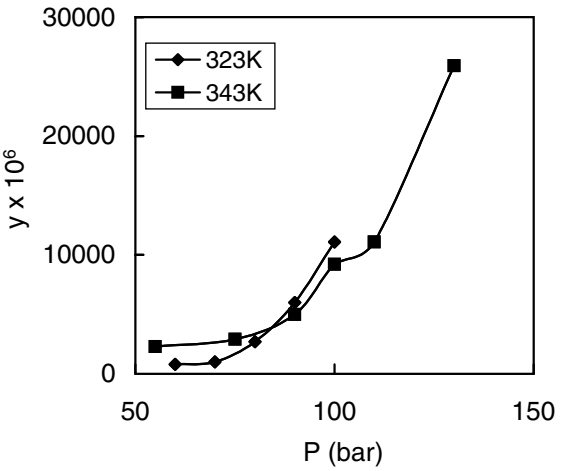
DDT ($C_{14}H_9Cl_5$; MW=354.49) **[D-1]**

T (K)	P (bar)	y x 10^6
313	101	92

Synonym: 4,4'-Dichlorodiphenyltrichloroethane;
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane
Source: Dooley, K. M.; Ghonasgi, D.; Knopf, F. C.;
Gambrell, R. P. *Environ. Progr.* (1990), 9(4), 197-203.

Decalin ($C_{10}H_{18}$; MW=138.25) **[D-2]**

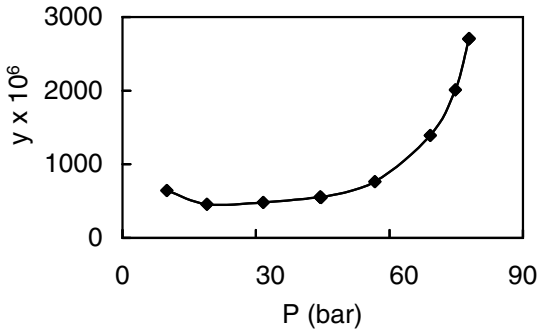
T (K)	P (bar)	y x 10^6
323	60	800
	70	1000
	80	2700
	90	6000
	100	11100
343	55	2300
	75	2900
	90	5000
	100	9200
	110	11100
	130	25900



Synonym: Decahydronaphthalene
Source: Mukhopadhyay,M.; De, S. K.
J. Chem. Eng. Data (1995), 40(4), 909-913.

Decane ($C_{10}H_{22}$; MW=142.28) **[D-3]**

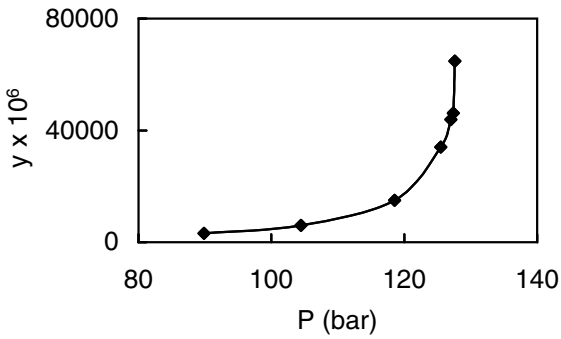
T (K)	P (bar)	y x 10^6
313	10.0	645
	19.0	459
	31.6	480
	44.4	553
	44.5	555
	44.6	550
	56.7	766
	69.2	1390
	74.8	2010
	77.8	2700
	77.9	2710



Source: Chylinski, K. ; Gregorowicz, J. *Fluid Phase Equil.* (1998), 143(1-2), 163-172.

Decane ($C_{10}H_{22}$; MW=142.28) **[D-4]**

T (K)	P (bar)	y x 10^6
344.15	89.9	3200
	104.5	6000
	118.5	15000
	125.5	34000
	127.0	43900
	127.4	46200
	127.6	64800

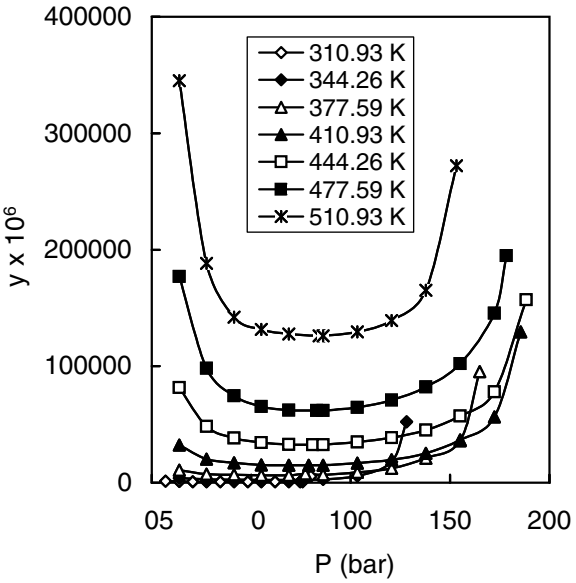


Source: Eustaquio-Rincon, R. ; Trejo, A. *Fluid Phase Equil.* (2001), 185(1-2), 231-239.

Decane ($C_{10}H_{22}$; MW=142.28) **[D-5]**

T (K)	P (bar)	y x 10^6
311	6.9	1400
	13.8	1000
	20.7	900
	27.6	800
	34.5	700
	41.4	700
	48.3	700
	55.1	700
	62.0	700
	68.9	700
	74.6	700
	75.8	800
	80.0	5400
344.26	13.8	3900
	27.6	2800
	41.4	2500
	55.1	2400
	68.9	2400
	75.7	2400
	86.2	2800

	103.4	5800
	120.6	17800
	128.2	52300
377.59	13.8	10800
	27.6	7400
	41.4	6700
	55.1	6200
	68.9	6200
	77.2	7700
	86.2	6900
	103.4	8800
	120.6	12300
	137.9	21100
	155.1	36000
	164.9	95400
410.93	13.8	32300
	27.6	20300
	41.4	17000
	55.1	15200
	68.9	15000
	78.9	15000
	86.2	15100
	103.4	16900
	120.6	19600
	137.9	25200
	155.1	36700
	172.3	56400
	185.6	129500
444.26	13.8	81800
	27.6	48300
	41.4	38300
	55.1	34300
	68.9	32800
	80.9	32500
	86.2	32600
	103.4	34800
	120.6	38600
	137.9	45200
	155.1	57300
	172.3	78000
	188.3	157000
477.59	13.8	176900
	27.6	98300
	41.4	74500
	55.1	65400
	68.9	62300
	82.9	62000
	86.2	62100
	103.4	64700
	120.6	70800
	137.9	82300
	155.1	102200

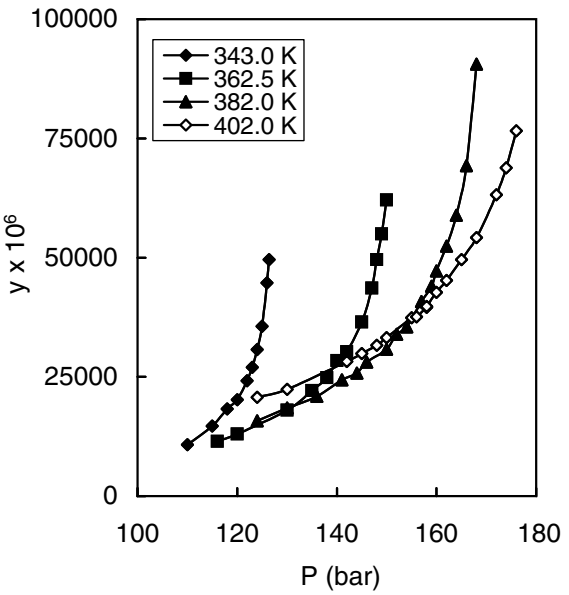


	172.3	145500
	178.3	195000
510.93	13.8	345200
	27.6	188400
	41.4	142200
	55.1	131600
	68.9	127600
	84.1	126000
	86.2	126100
	103.4	129400
	120.6	139200
	137.9	165300
	153.3	272000

Source: Reamer, H. H.; Sage, B. H . *J. Chem. Eng. Data* (1963), 8(4), 508-513.

Decane ($C_{10}H_{22}$; MW=142.28) **[D-6]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
343.0	110.0	10.50	10800
	115.0	15.61	14700
	118.0	20.39	18300
	120.0	23.30	20200
	122.0	28.91	24200
	123.0	32.85	27000
	124.0	38.10	30700
	125.0	45.14	35600
	126.0	58.06	44700
	126.4	65.18	49600
362.5	116.0	9.60	11500
	120.0	11.47	13000
	130.0	18.02	18000
	135.0	23.54	22100
	138.0	27.38	24800
	140.0	32.18	28400
	142.0	35.11	30300
	145.0	43.92	36500
	147.0	53.97	43600
	148.0	62.46	49600
	149.0	70.29	55000
	150.0	80.76	62100
382.0	124.0	12.37	15800
	130.0	15.42	18500
	136.0	18.64	20900
	141.0	22.87	24400
	144.0	24.97	25800
	146.0	27.77	28100
	150.0	31.68	30800
	152.0	35.54	33900
	154.0	38.03	35500
	157.0	45.01	40800
	159.0	49.54	44000
	160.0	53.84	47200
	162.0	61.07	52400

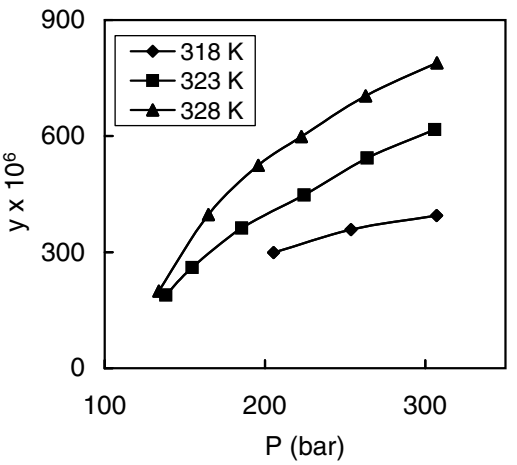


	164.0	70.28	58900
	166.0	84.89	69300
	168.0	115.50	90600
402.0	124.0	14.34	20700
	130.0	16.45	22400
	142.0	23.24	28200
	145.0	25.33	29900
	148.0	27.54	31600
	150.0	29.44	33200
	155.0	34.76	37400
	156.0	35.22	37600
	158.0	37.80	39600
	158.0	38.01	39800
	160.0	41.47	42700
	162.0	44.77	45200
	165.0	50.44	49600
	168.0	56.71	54200
	172.0	68.68	63200
	174.0	76.26	68800
	176.0	86.86	76600

1: Calculated from S.
Source: Swaid, I.; Nickel, D.; Schneider, G. M. *Fluid Phase Equil.* (1985), 21(1-2), 95-112.

1,10-Decanediol ($C_{10}H_{22}O_2$; MW=174.28) **[D-7]**

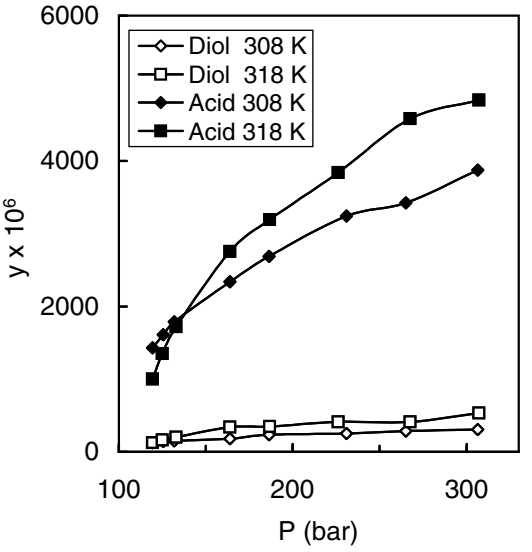
T (K)	P (bar)	y x 10^6
318	205.3	299
	253.7	358
	307.1	395
323	138.2	189
	154.5	260
	185.5	362
	224.4	448
	263.7	543
	305.9	617
328	133.7	199
	164.7	397
	195.8	524
	222.8	599
	262.8	704
	307.3	789



Synonym: Decamethylene glycol
Source: Pennisi, K. J.; Chimowitz, E. H. *J. Chem. Eng. Data* (1986), 31(3), 285-288. (See also Chimowitz, E. H.; Pennisi, K. J. *AIChE J.* (1986), 32(10), 1665-1676).

1,10-Decanediol (1) + Benzoic acid (2) Mixture **[D-8]**

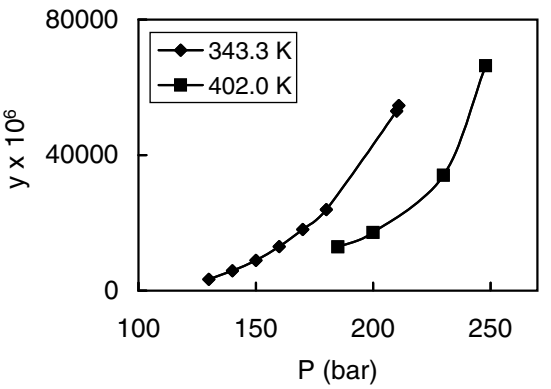
T (K)	P (bar)	y_1[1)] x 10^6	y_2[1)] x 10^6
308	119.4	127.0	1430
	125.5	142.0	1610
	131.9	153.0	1790
	163.8	181.4	2338
	186.4	236.0	2689
	230.9	254.2	3246
	265.1	288.2	3425
	306.4	306.4	3874
318	119.4	125.0	1000
	125.0	163.0	1350
	132.9	203.0	1720
	163.8	341.1	2755
	186.8	348.6	3195
	226.1	410.7	3843
	267.6	412.5	4582
	307.1	533.5	4840



1: Measured from the mixture of solids 1 and 2 of equal weights.
Source: Chimowitz, E. H.; Pennisi, K. J. *AIChEJ* (1986), 32(10), 1665-1676. (See also Pennisi, K. J.; Chimowitz, E. H. *J. Chem. Eng. Data* (1986), 31(3), 285-288).

1-Decanol ($C_{10}H_2O_2$; MW=158.28) **[D-9]**

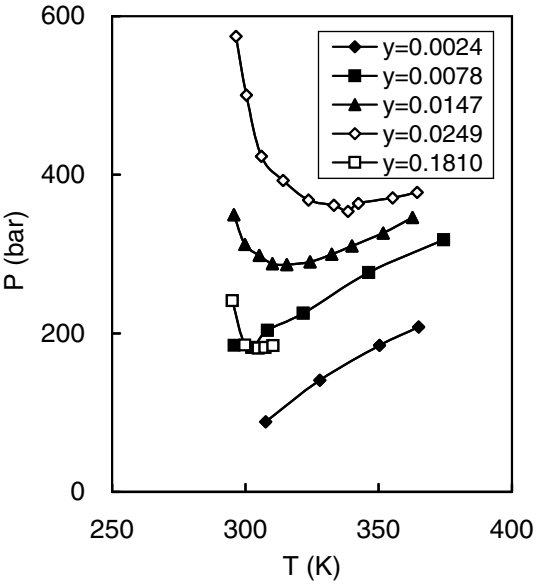
T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343.3	130	4.9	3360
	140	9.7	5840
	150	16.6	8900
	160	26.1	13000
	170	38.9	18100
	180	54.1	23900
	210	136.8	53000
	211	141.5	54600
402.0	185	16.2	12900
	200	23.7	17200
	230	55.7	34000
	248	121.2	66400



1: Calculated from S.
Synonyms: Decyl alcohol; Capric alcohol
Source: Nickel, D.; Schneider, G. M. *J. Chem. Thermodyn.* (1989), 21(3), 293-305.

Decyl 2,5-dichlorobenzoate ($C_{17}H_{24}Cl_2O_2$; MW=331.28) **[D-10]**

T (K)	P(bar)	y x 10^6
307.65	88.5	2400
327.95	140.9	2400
350.35	184.8	2400
365.05	207.8	2400
295.75	184.8	7800
302.45	182.0	7800
308.35	203.9	7800
321.75	225.2	7800
346.25	276.5	7800
374.35	317.9	7800
295.65	349.6	14700
299.85	312.3	14700
305.15	298.3	14700
310.15	287.8	14700
315.55	286.8	14700
324.25	290.1	14700
332.45	299.7	14700
339.95	310.3	14700
351.65	326.4	14700
362.65	346.2	14700
296.45	574.5	24900
300.35	500.3	24900
306.05	423.4	24900
314.15	392.7	24900
323.65	368.1	24900
333.25	361.6	24900
338.45	353.7	24900
342.35	364.0	24900
355.25	370.8	24900
364.45	377.7	24900
295.05	241.3	18100
299.85	185.1	18100
304.85	181.3	18100
307.35	182.0	18100
310.35	184.4	18100

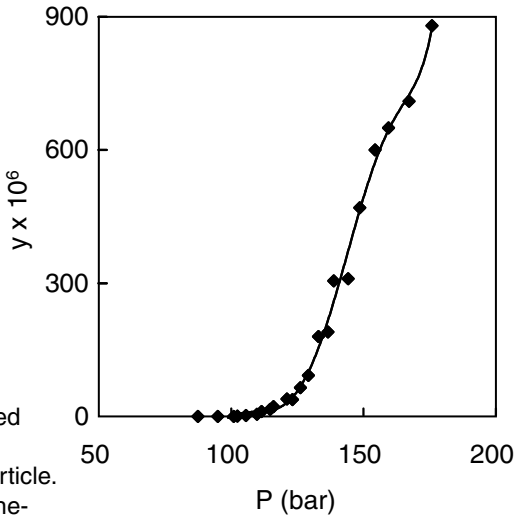


Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

Diacetoxyscirpenol ($C_{19}H_{26}O_7$; MW=366.41) **[D-11]**

T (K)	P[1] (bar)	y[2] x 10^6
334.68	87	0.02
	95	0.07
	101	0.32
	102	0.91
	106	2.30
	110	4.90
	112	11.00
	115	16.00
	116	22.00

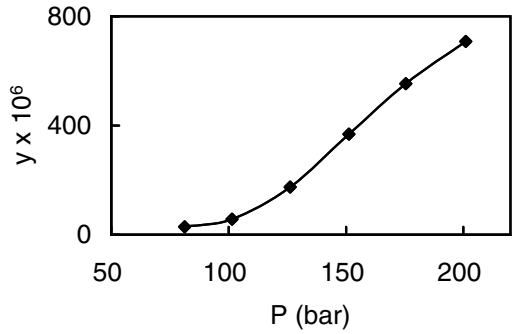
121	39.00
123	38.00
126	65.00
129	92.00
133	180.00
137	190.00
139	305.00
144	310.00
149	470.00
154	600.00
159	650.00
167	710.00
176	880.00



1: Calculated from temperature and density digitized from the source graph.
2: Obtained by digitizing the graph in the original article.
Synonyms: Anguidin; 12,13-Epoxytrichothec-9-ene-3α,4β,15-triol 4,15-diacetate
Source: Smith, R. D.; Udseth, H. R.; Wright, B. W.; Yonker, C. R. *Sep. Sci. Technol.* (1987), 22(2-3), 1065-1086.

Diamantane ($C_{14}H_{20}$; MW=188.31) **[D-12]**

T (K)	P (bar)	y x 10^6
333	81.3	29.5
	101.4	56.9
	126.2	175.0
	151.2	369.0
	175.5	553.0
	201.0	708.0

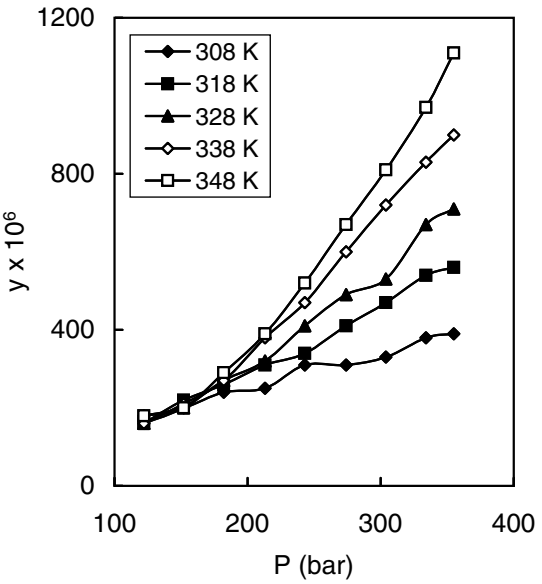


Synonyms: Diadamantane; Decahydro 3,5,1,7-[1,2,3,4]butanetetrayl naphthalene
Source: Smith, V. S.; Teja, A. S. *J. Chem. Eng. Data* (1996), 41(4), 923-925.

Diazepam ($C_{16}H_{13}ClN_2O$; MW=284.74) **[D-13]**

T (K)	P (bar)	S (g/L)	yx 10^6
308	122	0.88	180
	152	1.07	200
	182	1.31	240
	213	1.39	250
	243	1.77	310
	274	1.82	310
	304	1.99	330
	334	2.30	380
	355	2.40	390

318	122	0.68	160
	152	1.05	220
	182	1.36	260
	213	1.66	310
	243	1.87	340
	274	2.34	410
	304	2.71	470
	334	3.17	540
	355	3.35	560
328	122	0.54	160
	152	0.84	200
	182	1.27	270
	213	1.61	320
	243	2.11	410
	274	2.63	490
	304	2.94	530
	334	3.79	670
	355	4.04	710
338	122	0.42	160
	152	0.75	210
	182	1.16	270
	213	1.76	380
	243	2.31	470
	274	3.03	600
	304	3.78	720
	334	4.48	830
	355	4.95	900
348	122	0.39	180
	152	0.62	200
	182	1.11	290
	213	1.66	390
	243	2.38	520
	274	3.19	670
	304	4.04	810
	334	4.99	970
	355	5.82	1110

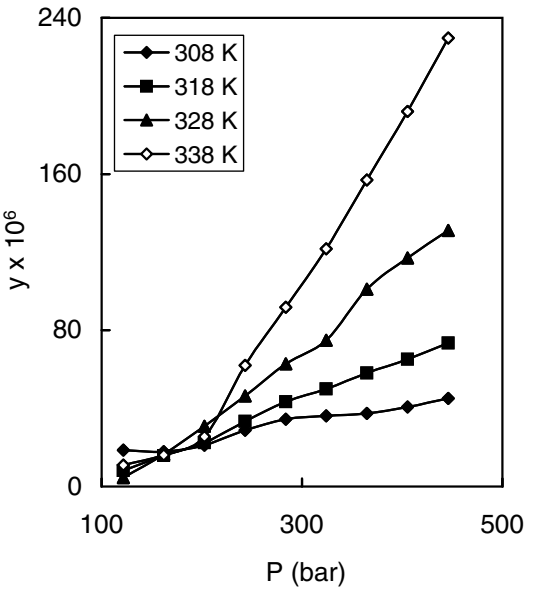


Synonym: 7-Chloro-1-methyl-5-phenyl-3*H*-1,4-benzodiazepin-2(1*H*)-one
Source: Yamini, Y.; Hassan, J.; Haghgo, S. *J.Chem. Eng. Data* (2001), 46(2), 451-455.

Dibenzo-24-crown-8 ($C_{24}H_{32}O_8$; MW=448.51) **[D-14]**

T (K)	P (bar)	y x 10^6
308	121.6	18.6
	162.1	17.8
	202.7	21.1
	243.2	28.9
	283.7	34.4
	324.2	36.2
	364.8	37.4

	405.3	40.8
	445.8	45.1
318	121.6	8.2
	162.1	15.8
	202.7	22.4
	243.2	33.4
	283.7	43.4
	324.2	50.0
	364.8	58.1
	405.3	65.1
	445.8	73.4
328	121.6	4.6
	162.1	16.4
	202.7	30.9
	243.2	46.3
	283.7	62.8
	324.2	74.9
	364.8	101.0
	405.3	117.0
	445.8	131.2
338	121.6	11.0
	162.1	16.1
	202.7	25.6
	243.2	62.1
	283.7	91.8
	324.2	121.8
	364.8	157.0
	405.3	192.0
	445.8	229.6

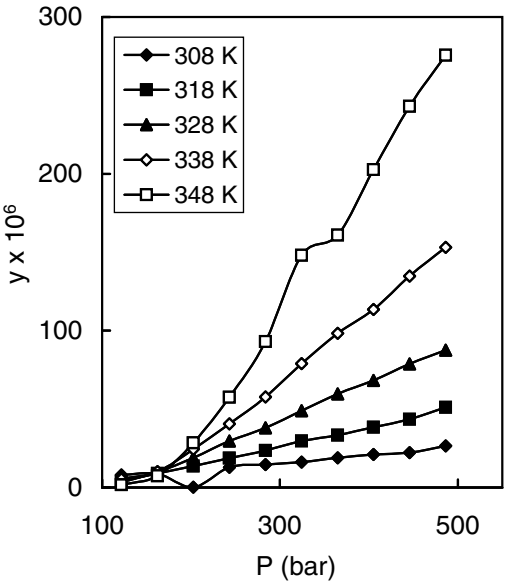


Synonym: 6,7,9,10,12,13,20,21,23,24,26,27-Dodecahydrodibenz[*b,n*][1,4,7,10,13,16,19,22]octaoxacyclotetracosin
Source: Shamispur, M.; Yamini, Y.; Hasan, J. *Fluid Phase Equil.* (2001), 186(1-2), 39-46.

Dibenzo-27-crown-9 ($C_{26}H_{36}O_9$; MW=492.56) **[D-15]**

T (K)	P (bar)	y x 10^6
308	121.6	7.9
	162.1	8.8
	202.7	0.2
	243.2	12.9
	283.7	14.6
	324.2	16.2
	364.8	18.9
	405.3	21.1
	445.8	22.3
	486.4	26.5
318	121.6	4.1
	162.1	9.0
	202.7	13.7

	243.2	18.7
	283.7	23.6
	324.2	29.7
	364.8	33.3
	405.3	38.5
	445.8	43.5
	486.4	51.1
328	121.6	3.3
	162.1	9.7
	202.7	18.9
	243.2	29.7
	283.7	38.1
	324.2	48.9
	364.8	59.6
	405.3	68.2
	445.8	78.8
	486.4	87.5
338	121.6	5.4
	162.1	10.1
	202.7	24.3
	243.2	40.5
	283.7	57.7
	324.2	79.0
	364.8	98.4
	405.3	113.5
	445.8	134.7
	486.4	153.2
348	121.6	1.8
	162.1	7.4
	202.7	28.5
	243.2	57.5
	283.7	93.0
	324.2	148.0
	364.8	160.9
	405.3	202.7
	445.8	243.0
	486.4	275.7

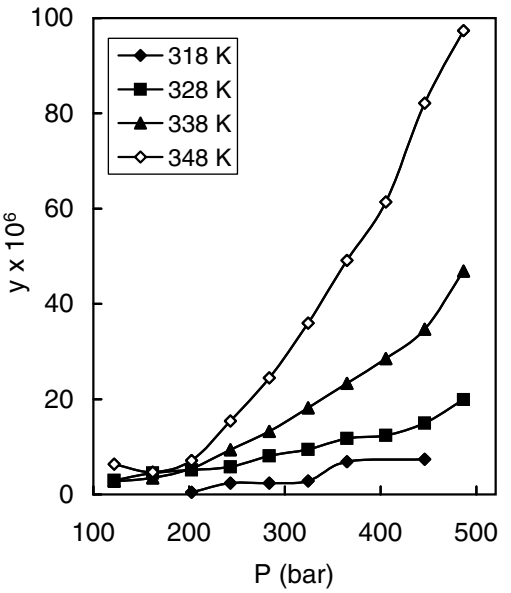


Synonym: 6,7,9,10,12,13,15,16,23,24,26,27,29,30-Tetradecahydrodibenzo[b,n][1,4,7,10,13,16,19,22,25] nonaoxacycloheptacosin
Source: Shamispur, M.; Yamini, Y.; Hasan, J. *Fluid Phase Equil.* (2001), 186(1-2), 39-46.

Dibenzo-30-crown-10 ($C_{28}H_{40}O_{10}$; MW=536.61) **[D-16]**

T (K)	P (bar)	y x 10^6
318	202.7	0.46
	243.2	2.35
	283.7	2.38
	324.2	2.83
	364.8	6.87
	445.8	7.41

328	121.6	2.94
	162.1	4.47
	202.7	5.16
	243.2	5.75
	283.7	8.12
	324.2	9.41
	364.8	11.73
	405.3	12.38
	445.8	14.97
	486.4	19.90
3381	21.6	2.79
	162.1	3.48
	202.7	5.47
	243.2	9.35
	283.7	13.22
	324.2	18.16
	364.8	23.32
	405.3	28.53
	445.8	34.65
	486.4	46.91
348	121.6	6.33
	162.1	4.69
	202.7	7.14
	243.2	15.42
	283.7	24.46
	324.2	35.98
	364.8	49.11
	405.3	61.38
	445.8	82.13
	486.4	97.38

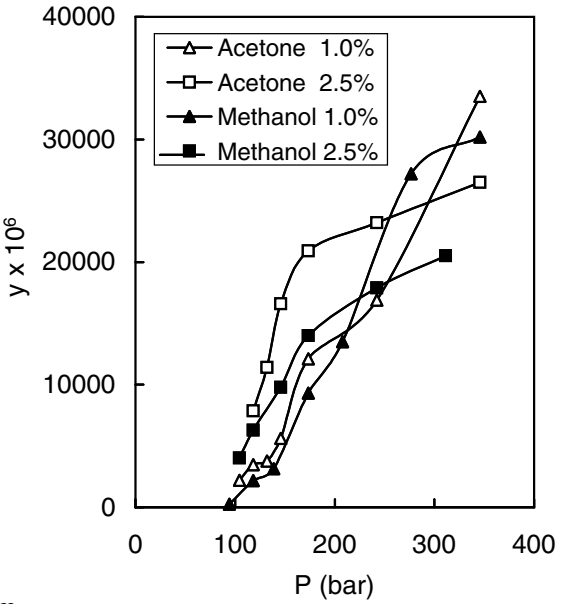


Synonym: 6,7,9,10,12,13,15,16,23,24,26,27,29,30,32,33-Hexadecahydrodibenzo[b,q][1,4,7,10,13,16,19,22,25,28] decaoxacyclotriacontin
Source: Shamispur, M.; Yamini, Y.; Hasan, J. *Fluid Phase Equil.* (2001), 186(1-2), 39-46.

Dibenzofuran ($C_{12}H_8O$; MW=168.19) **[D-17]**

T (K)	P (bar)	Cosolvent[1)] (mol %)	y x 10^6
		Acetone	
323	104.4	1.0	2190
	118.2	1.0	3480
	132.0	1.0	3760
	145.8	1.0	5610
	173.3	1.0	12100
	242.3	1.0	16900
	345.7	1.0	33500
	118.2	2.5	7850
	132.0	2.5	11400
	145.8	2.5	16600

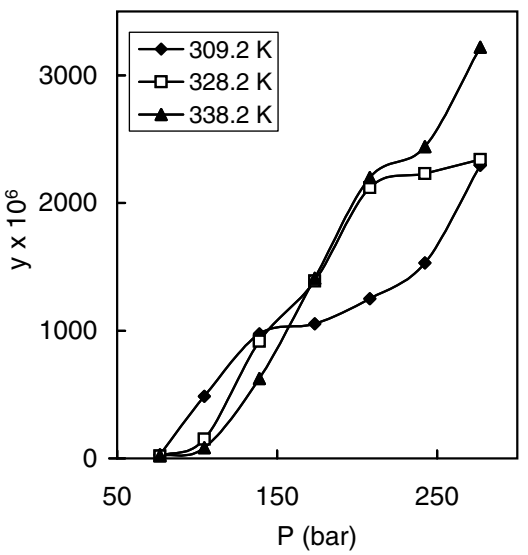
	173.3	2.5	20900
	242.3	2.5	23200
	345.7	2.5	26500
		Methanol	
323	94.1	1.0	258
	118.2	1.0	2160
	138.9	1.0	3150
	173.3	1.0	9320
	207.8	1.0	13500
	276.7	1.0	27200
	345.7	1.0	30200
	104.4	2.5	4020
	118.2	2.5	6290
	145.8	2.5	9770
	173.3	2.5	14000
	242.3	2.5	17900
	311.2	2.5	20500



1: Cosolvent in CO_2 on a solute-free basis.
Synonym: Diphenylene oxide
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.

Dibenzothiophene ($C_{12}H_8S$; MW=184.26) **[D-18]**

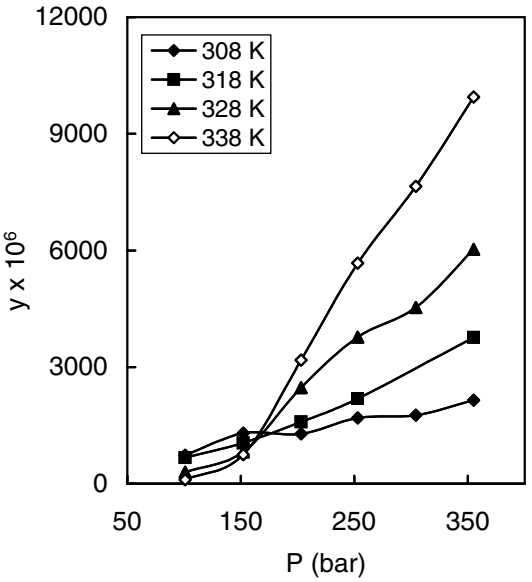
T (K)	P (bar)	y x 10^6
309.15	76.9	28
	104.4	486
	138.9	974
	173.4	1053
	207.9	1250
	242.3	1530
	276.8	2295
328.15	76.9	19
	104.4	151
	138.9	917
	173.4	1390
	207.9	2120
	242.3	2230
	276.8	2340
338.15	76.9	22
	104.4	84
	138.9	625
	173.4	1410
	207.9	2200
	242.3	2440
	276.8	3220



Synonyms: 9-Thiafluorene; Diphenylene sulfide
Source: Mitra, S.; Chen, J. W.; Viswanath, D. S. *J. Chem. Eng. Data* (1988), 33(1), 35-37.

Dibenzoylmethane ($C_{15}H_{12}O_2$; MW=224.25) **[D-19]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	2.7	730
	152	5.4	1300
	203	5.7	1280
	253	7.8	1690
	304	8.4	1760
	355	10.5	2150
318	101	1.8	670
	152	4.0	1050
	203	6.6	1590
	253	9.6	2190
	355	17.7	3760
328	101	0.5	300
	152	2.7	820
	203	9.6	2470
	253	15.7	3770
	304	19.8	4530
	355	27.4	6030
338	101	0.1	100
	152	2.2	750
	203	11.3	3180
	253	22.2	5670
	304	32.0	7650
	355	43.5	9950



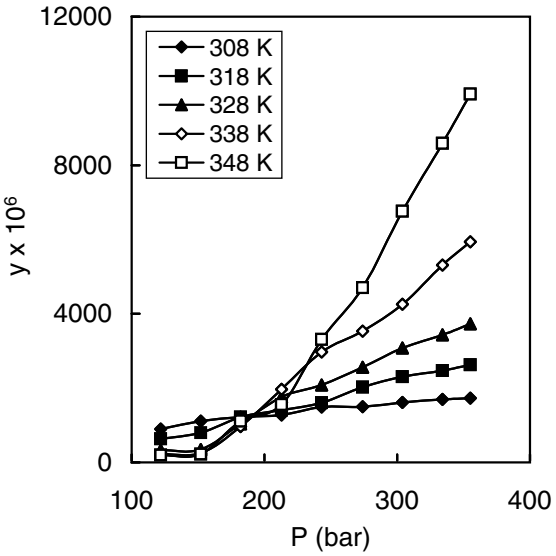
Synonyms: 1,3-Diphenyl-1,3-propanedione; 2-Benzoylacetophenone

Source: Shamsipur, M.; Ghiasvand, A. R.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(5), 1483-1486.

Di-*tert*-butyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate ($C_{23}H_{52}O_6$; MW=382.46) **[D-20]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	6.02	898
	152	7.89	1108
	182	9.00	1217
	213	9.74	1277
	243	11.64	1491
	274	11.94	1498
	304	13.12	1618
	334	14.01	1700
	355	14.40	1732
318	122	3.64	633
	152	5.18	799
	182	8.41	1220
	213	10.12	1408
	243	11.94	1609
	274	15.42	2024
	304	17.95	2307

	334	19.60	2471
	355	21.07	2630
328	122	1.48	330
	152	1.98	347
	182	6.54	1035
	213	11.83	1761
	243	14.58	2082
	274	18.53	2558
	304	22.91	3080
	334	26.10	3431
	355	28.78	3731
3381	22	0.78	228
	152	1.20	245
	182	5.47	962
	213	12.23	1972
	243	19.53	2971
	274	24.24	3536
	304	30.21	4262
	334	38.73	5315
	355	44.01	5936
348	122	0.57	199
	152	0.93	224
	182	5.64	1108
	213	8.83	1555
	243	20.25	3307
	274	30.40	4704
	304	45.67	6760
	334	59.95	8590
	355	70.63	9919

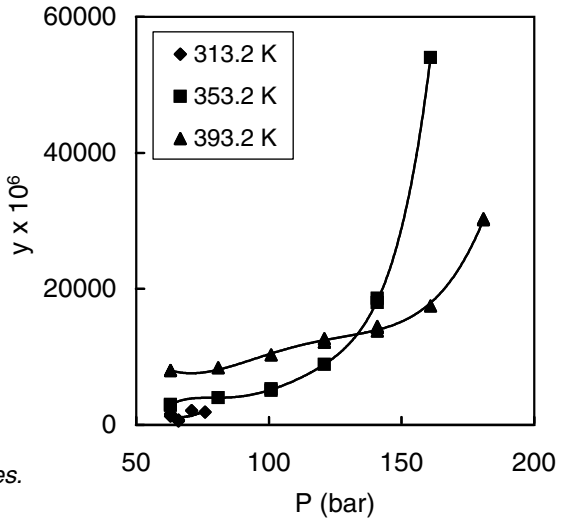


Synonym: Di-*tert*-butyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate
Source: Bahramifar, N.; Yamini, Y.; Ramazani, A.; Noshiranzadeh, N. *J. Chem. Eng. Data* (2003), 48(5), 1104-1108.

1,2-Dichlorobenzene ($C_6H_4Cl_2$; MW=147.00) **[D-21]**

T (K)	P (bar)	y x 10^6
313.2	62.9	1300
	62.9	1600
	65.9	600
	65.9	700
	70.9	210
	75.9	1900
353.2	62.9	2900
	62.9	3000
	80.9	4000
	100.9	5100
	100.9	5300
	120.9	8900
	140.9	18600
	140.9	18000
	160.9	54000

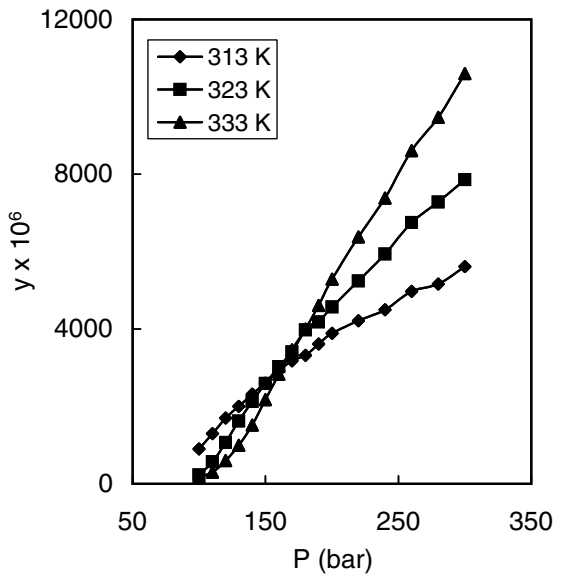
393.2	62.9	8000
	62.9	8000
	80.9	8400
	100.9	10300
	120.9	12200
	120.9	12200
	120.9	12700
	140.9	13800
	140.9	14500
	140.9	14300
	160.9	17500
	180.9	30200
	180.9	30300



Source: Walther, D.; Maurer, G. *Ber. Bunsenges. Phys. Chem.* (1992), 96(8), 981-988.

2,2'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-22]**

T (K)	P (bar)	y x 10^6
313	100	901
	110	1300
	120	1700
	130	2000
	140	2320
	150	2600
	160	2920
	170	3180
	180	3320
	190	3610
	200	3890
	220	4210
	240	4500
	260	4970
	280	5160
	300	5610
323	100	228
	110	569
	120	1070
	130	1620
	140	2130
	150	2590
	160	3030
	170	3410
	180	3980
	190	4180
	200	4570
	220	5240
	240	5940
	260	6750
	280	7280
	300	7860

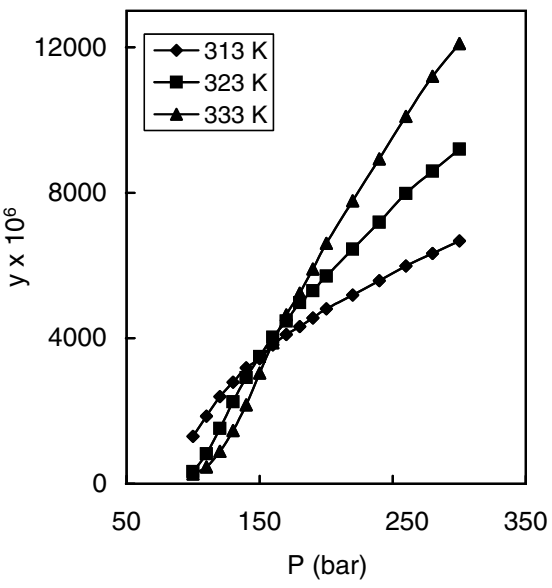


333	100	173
	110	303
	120	597
	130	1000
	140	1520
	150	2170
	160	2830
	170	3460
	180	4000
	190	4610
	200	5290
	220	6380
	240	7380
	260	8610
	280	9470
	300	10600

Synonym: 2,2'-Dichloro-1,1'-biphenyl
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,2'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-23]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	1300
	110	5.0	1860
	120	5.0	2400
	130	5.0	2790
	140	5.0	3190
	150	5.0	3440
	160	5.0	3820
	170	5.0	4100
	180	5.0	4320
	190	5.0	4560
	200	5.0	4810
	220	5.0	5190
	240	5.0	5580
	260	5.0	5990
	280	5.0	6330
	300	5.0	6680
323	100	5.0	337
	110	5.0	825
	120	5.0	1520
	130	5.0	2250
	140	5.0	2920
	150	5.0	3500
	160	5.0	4030
	170	5.0	4470
	180	5.0	4980
	190	5.0	5310



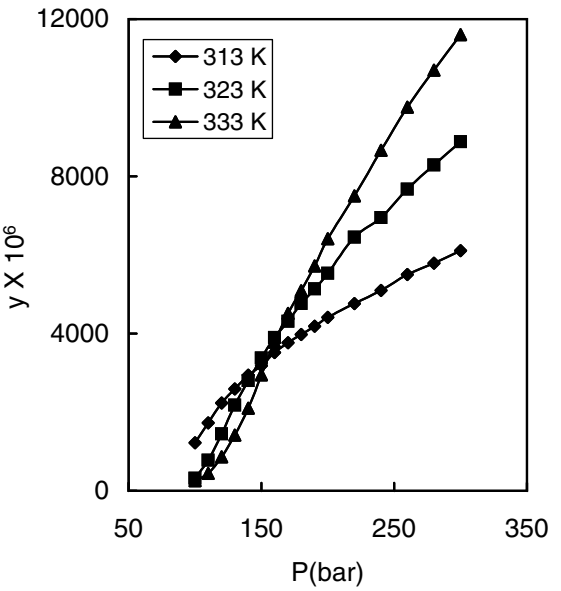
	200	5.0	5710
	220	5.0	6450
	240	5.0	7190
	260	5.0	7980
	280	5.0	8590
	300	5.0	9200
333	100	5.0	272
	110	5.0	461
	120	5.0	890
	130	5.0	1460
	140	5.0	2170
	150	5.0	3040
	160	5.0	3880
	170	5.0	4640
	180	5.0	5240
	190	5.0	5900
	200	5.0	6610
	220	5.0	7780
	240	5.0	8930
	260	5.0	10100
	280	5.0	11200
	300	5.0	12100

1: Cosolventin CO_2.
Synonym: 2,2'-Dichloro-1,1'-biphenyl
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,2'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-24]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	1220
	110	5.0	1730
	120	5.0	2230
	130	5.0	2590
	140	5.0	2940
	150	5.0	3180
	160	5.0	3520
	170	5.0	3770
	180	5.0	3980
	190	5.0	4190
	200	5.0	4410
	220	5.0	4760
	240	5.0	5100
	260	5.0	5500
	280	5.0	5790
	300	5.0	6110
323	100	5.0	317
	110	5.0	779
	120	5.0	1450
	130	5.0	2180

	140	5.0	2800
	150	5.0	3380
	160	5.0	3900
	170	5.0	4310
	180	5.0	4760
	190	5.0	5140
	200	5.0	5530
	220	5.0	6450
	240	5.0	6950
	260	5.0	7670
	280	5.0	8290
	300	5.0	8880
333	100	5.0	258
	110	5.0	446
	120	5.0	866
	130	5.0	1420
	140	5.0	2100
	150	5.0	2950
	160	5.0	3780
	170	5.0	4510
	180	5.0	5090
	190	5.0	5720
	200	5.0	6410
	220	5.0	7780
	240	5.0	8930
	260	5.0	10100
	280	5.0	11200
	300	5.0	12100

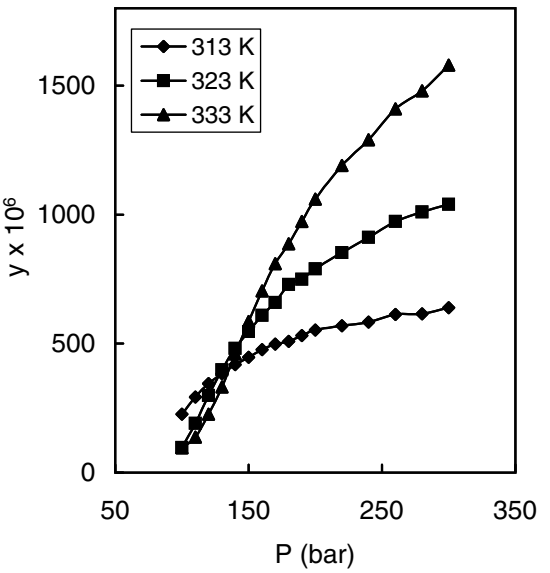


1: Cosolventin CO_2.
Synonym: 2,2'-Dichloro-1,1'-biphenyl
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit.Fluids* (1999), 14(3), 197-211.

4,4'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-25]**

T (K)	P (bar)	y x 10^6
313	100	227
	110	293
	120	345
	130	383
	140	418
	150	447
	160	477
	170	498
	180	509
	190	531
	200	553
	220	569
	240	583
	260	613
	280	616
	300	639

323	100	97
	110	191
	120	299
	130	399
	140	481
	150	547
	160	609
	170	659
	180	729
	190	749
	200	790
	220	853
	240	912
	260	974
	280	1010
	300	1040
333	100	96
	110	138
	120	226
	130	332
	140	460
	150	586
	160	704
	170	810
	180	887
	190	974
	200	1060
	220	1190
	240	1290
	260	1410
	280	1480
	300	1580



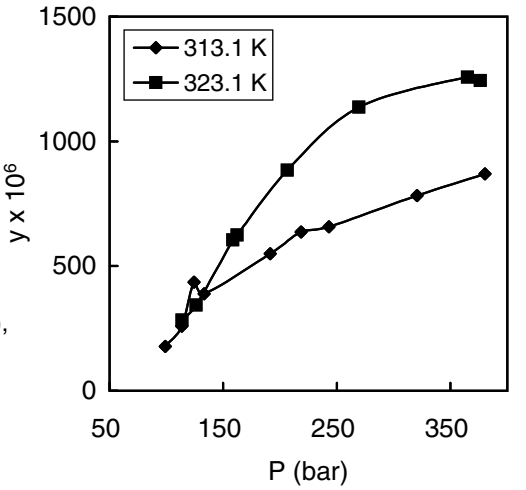
Synonyms: 4,4'-Dichloro-1,1'-biphenyl; PCB 15
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

4,4'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-26]**

T (K)	P (bar)	y x 10^6
313.1	98.9	178
	113.5	259
	124.2	436
	133.1	389
	191.4	549
	218.7	637
	243.0	658
	320.6	782
	380.3	870

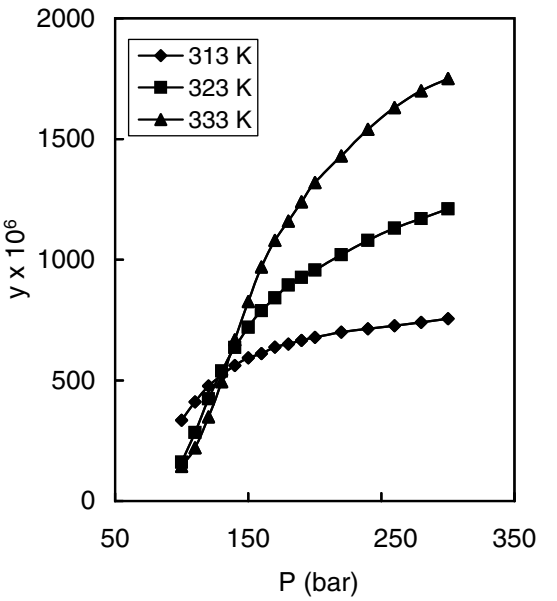
323.1	113.8	283
	126.3	344
	158.6	605
	162.3	624
	206.3	884
	269.3	1137
	364.9	1257
	376.2	1244

Synonyms: 4,4'-Dichloro-1,1'-biphenyl; PCB 15
Source: Yu, E.; Richter, M.; Chen, P.; Wang, X.; Tavlarides, L. L. *Ind. Eng. Chem. Res.* (1995), 34(1), 340-346.



4,4'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-27]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	335
	110	5.0	411
	120	5.0	477
	130	5.0	522
	140	5.0	562
	150	5.0	593
	160	5.0	611
	170	5.0	637
	180	5.0	650
	190	5.0	666
	200	5.0	678
	220	5.0	699
	240	5.0	713
	260	5.0	726
	280	5.0	740
	300	5.0	755
323	100	5.0	161
	110	5.0	284
	120	5.0	423
	130	5.0	539
	140	5.0	636
	150	5.0	720
	160	5.0	788
	170	5.0	842
	180	5.0	895
	190	5.0	927
	200	5.0	957
	220	5.0	1020
	240	5.0	1080



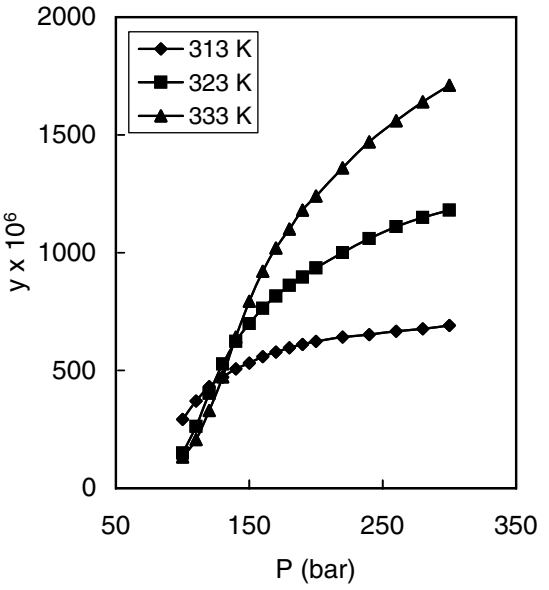
	260	5.0	1130
	280	5.0	1170
	300	5.0	1210
333	100	5.0	143
	110	5.0	221
	120	5.0	348
	130	5.0	494
	140	5.0	668
	150	5.0	826
	160	5.0	969
	170	5.0	1080
	180	5.0	1160
	190	5.0	1240
	200	5.0	1320
	220	5.0	1430
	240	5.0	1540
	260	5.0	1630
	280	5.0	1700
	300	5.0	1750

1: Cosolvent in CO_2.
Synonyms: 4,4'-Dichloro-1,1'-biphenyl; PCB 15
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

4,4'-Dichlorobiphenyl ($C_{12}H_8Cl_2$; MW=223.10) **[D-28]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	292
	110	5.0	370
	120	5.0	431
	130	5.0	471
	140	5.0	506
	150	5.0	531
	160	5.0	559
	170	5.0	578
	180	5.0	596
	190	5.0	610
	200	5.0	624
	220	5.0	641
	240	5.0	652
	260	5.0	666
	280	5.0	677
	300	5.0	691
323	100	5.0	149
	110	5.0	262
	120	5.0	402
	130	5.0	527
	140	5.0	623
	150	5.0	699

	160	5.0	764
	170	5.0	816
	180	5.0	861
	190	5.0	896
	200	5.0	935
	220	5.0	1000
	240	5.0	1060
	260	5.0	1110
	280	5.0	1150
	300	5.0	1180
333	100	5.0	132
	110	5.0	206
	120	5.0	330
	130	5.0	473
	140	5.0	641
	150	5.0	794
	160	5.0	921
	170	5.0	1020
	180	5.0	1100
	190	5.0	1180
	200	5.0	1240
	220	5.0	1360
	240	5.0	1470
	260	5.0	1560
	280	5.0	1640
	300	5.0	1710



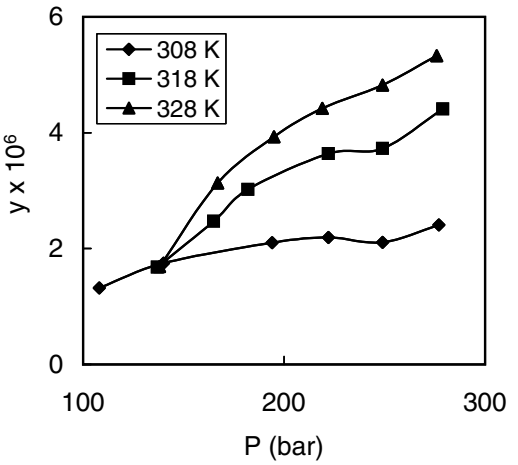
1: Cosolvent in CO_2.

Synonyms: 4,4'-Dichloro-1,1'-biphenyl; PCB 15

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Dichlorobis(triphenylphosphine)nickel(II) ($C_{36}H_{30}Cl_2NiP_2$; FW=654.20) **[D-29]**

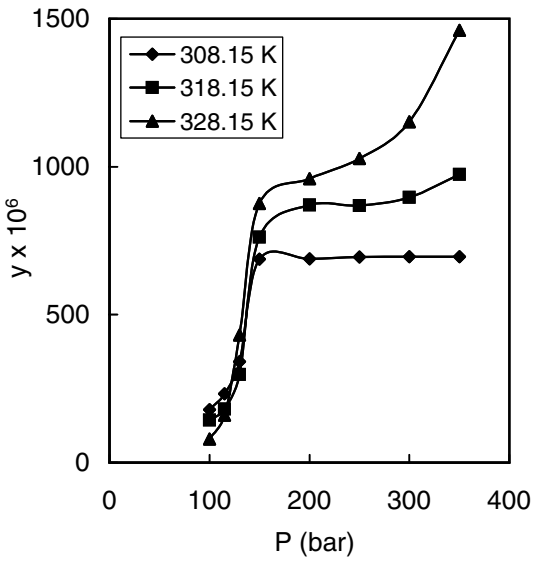
T (K)	P (bar)	y x 10^6
308	108	1.32
	140	1.75
	194	2.10
	222	2.19
	249	2.11
	277	2.41
318	137	1.68
	165	2.47
	182	3.02
	222	3.64
	249	3.73
	279	4.41
328	138	1.69
	167	3.13
	195	3.93
	219	4.42
	249	4.82
	276	5.33



Source: Palo, D. R.; Erkey, C. *J. Chem. Eng. Data* (1998), 43(1), 47-48.

2,4-Dichloro-1-naphthol ($C_{10}H_6Cl_2O$; MW=213.06) **[D-30]**

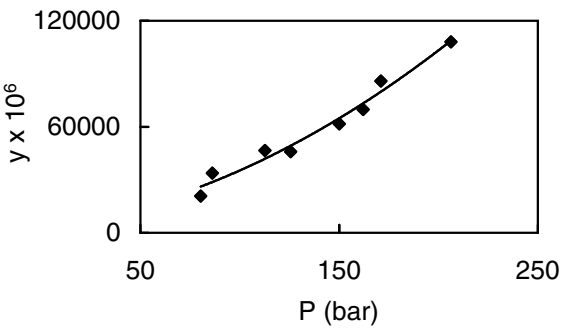
T (K)	P (bar)	y x 10^6
308.15	100	178.8
	115	232.7
	130	341.0
	150	687.6
	200	689.0
	250	694.5
	300	695.8
	350	695.9
318.15	100	143.5
	115	181.4
	130	297.9
	150	762.3
	200	870.5
	250	868.1
	300	896.6
	350	973.6
328.15	100	80.0
	115	160.0
	130	430.7
	150	875.7
	200	959.3
	250	1028.0
	300	1152.0
	350	1461.0



Synonym: 2,4-Dichloro-1-naphthalenol
Source: Yoon, J. H.; Lee, H. S.; Lee, H. *J. Chem. Thermodyn.* (1993), 25(2), 193-196.

2,4-Dichlorophenol ($C_6H_4Cl_2O$; MW=163.00) **[D-31]**

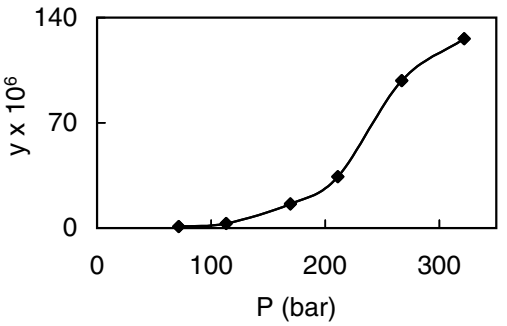
T (K)	P (bar)	y x 10^6
309.15	80.3	20840
	86.2	33840
	112.6	46520
	125.7	45930
	150.1	61720
	162.1	69740
	171.0	85970
	206.2	108100



Source: Van Leer, R. A.; Paulaitis, M. E. *J. Chem. Eng. Data* (1980), 25(3), 257-259.

2,4-Dichlorophenoxyacetic acid ($C_8H_6Cl_2O_3$; MW=221.04) **[D-32]**

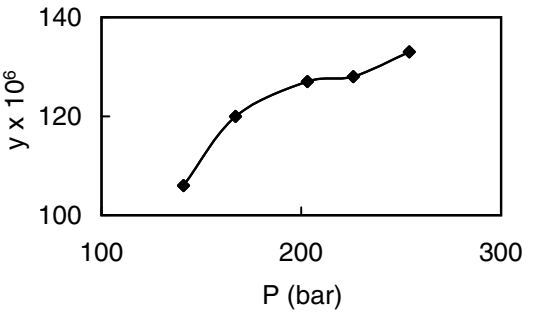
T[1)] (K)	P[2)] (bar)	y[1,3)] x 10^6
294	72	1.1
303	113	3.1
314	170	16.0
323	211	34.1
334	267	98.0
345	322	126.0



1: Obtained by digitizing the graph in the original article. May have large reading error as the original graph is small.
2: Calculated from temperature and density in the source graph.
3: Measured at a constant density (0.80 g/mL).
Synonyms: 2,4-D; 2,4-Dichlorophenoxyethanoic acid
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

2,4-Dichlorophenoxyacetic acid ($C_8H_6Cl_2O_3$; MW=221.04) **[D-33]**

T (K)	P (bar)	y[1)] x 10^6
307.95	141	106
	167	120
	203	127
	226	128
	254	133

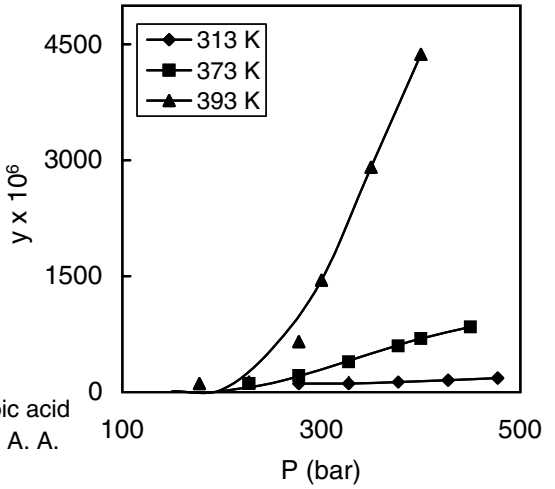


1: Obtained by digitizing the graph in the original article.
Synonyms: 2,4-D; 2,4-Dichlorophenoxyethanoic acid
Source: Curren, M. S.; Burk, R. C. *J.Chem. Eng. Data* (1997), 42(4), 727-730.

2,4-Dichlorophenoxyacetic acid ($C_8H_6Cl_2O_3$; MW=221.04) **[D-34]**

T (K)	P (bar)	y x 10^6
313	250	10
	300	11
	350	33
	400	57
	450	83

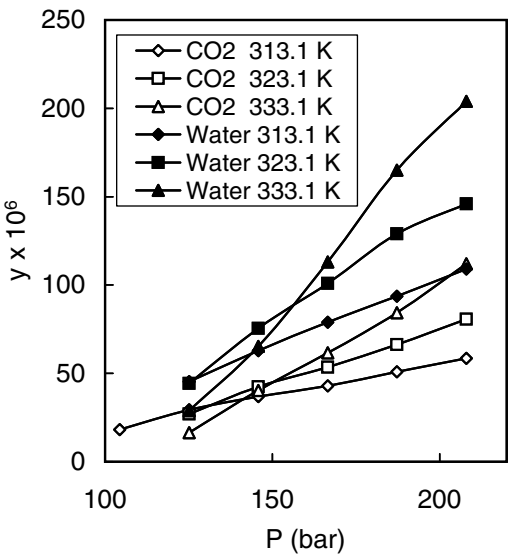
373	200	10
	250	113
	300	291
	350	497
	400	694
	450	843
393	150	10
	200	33
	250	554
	300	1450
	350	2910
	400	4370



Synonyms: 2,4-D; 2,4-Dichlorophenoxyethanoic acid
Source: Miller, D. J.; Hawthrone, S. B.; Clifford, A. A. *J. Supercrit. Fluids* (1997), 10(1), 57-63.

2,4-Dichlorophenoxyacetic acid ($C_8H_6Cl_2O_3$; MW=221.04) **[D-35]**

T (K)	P[1] (bar)	Water[1]	y[2] x 10^6
313.1	104	0	18.2
	125	0	29.4
	146	0	36.9
	167	0	42.9
	187	0	50.9
	208	0	58.5
323.1	125	0	27.0
	146	0	42.5
	167	0	53.5
	187	0	66.3
	208	0	80.6
333.1	125	0	16.4
	146	0	40.4
	167	0	61.7
	187	0	84.3
	208	0	112.0
313.1	125	saturated	45.4
	146	saturated	62.9
	167	saturated	79.0
	187	saturated	93.6
	208	saturated	109.0
323.1	125	saturated	44.3
	146	saturated	75.5
	167	saturated	101.0
	187	saturated	129.0
	208	saturated	146.0

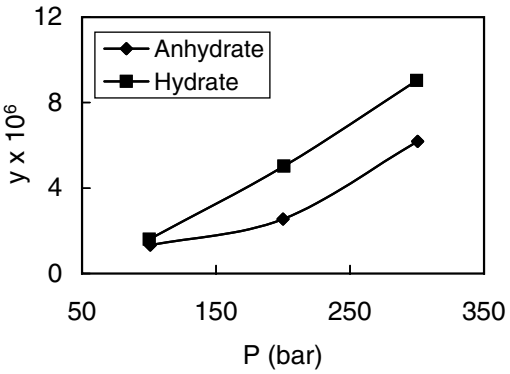


333.1	125	saturated	28.9
	146	saturated	65.2
	167	saturated	113.0
	187	saturated	165.0
	208	saturated	204.0

1: Cosolvent in CO_2.
2: Obtained by digitizing the graph in the original article.
Synonyms: 2,4-D; 2,4-Dichlorophenoxyethanoic acid
Source: Macnaughton, S. J.; Foster, N. R. *Ind. Eng. Chem. Res.* (1994), 33(11), 2757-2763.

Diclofenac sodium ($C_{14}H_{11}Cl_2NO_2 \cdot Na$; FW=318.13) **[D-36]**

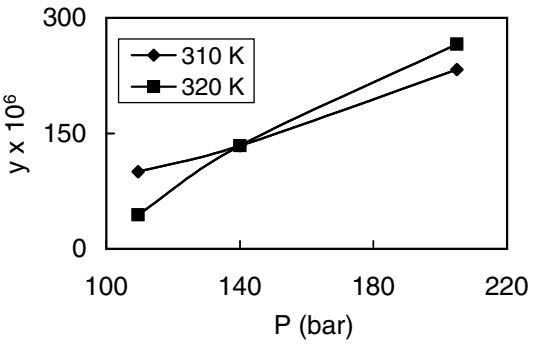
T (K)	P[1)] (bar)	y[1)] x 10^6
	Anhydrate	
313.15	101	1.3
	200	2.5
	301	6.2
Hydrate ($C_{14}H_{10}C_{l2}NNaO_2 \cdot 4H_2O$)		
313.15	100	1.6
	201	5.0
	300	9.0



1:Obtained by digitizing the graph in the original article.
Synonyms: Diclofenac sodium salt; Sodium 2-(2,6-dichloroanilino)phenyl
Source: Bettini, R.; Bertolini, G.; Frigo, E.; Rossi, A.; Casini, I.; Pasquali, I.; Giordano, F. *J. Therm. Anal. Cal.* (2004), 77(2), 625-638.

Di-*n*-dodecylamine ($C_{24}H_{51}N$; MW=353.67) **[D-37]**

T (K)	P (bar)	y x 10^6
310	109.5	100
	140.0	134
	205.0	233
320	109.5	44
	140.0	134
	205.0	266

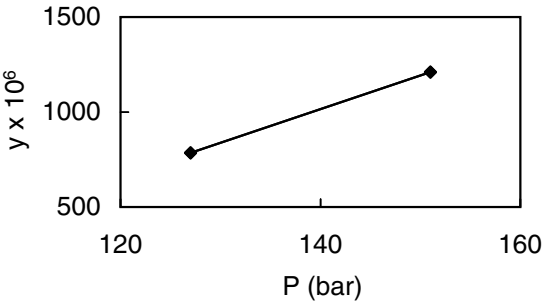


Synonyms: Didodecylamine; Dilaurylamine
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Didodecylphosphine ($C_{24}H_{51}P$; MW=370.64) **[D-38]**

T (K)	P (bar)	y x 10^6
320	127	785
	151	1210

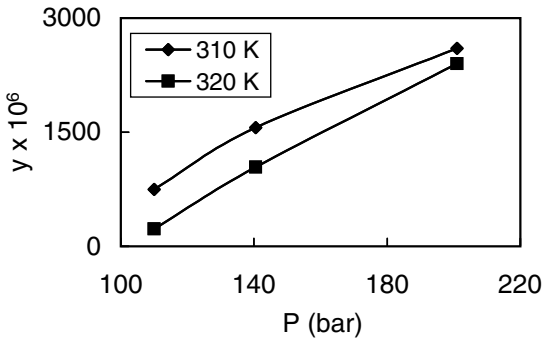
Synonym: Dilaurylphosphine
Source: Schmitt, W. J.; Reid, R. C.
Chem. Eng. Comm. (1988), 64, 155-176.



Didodecylthioether ($C_{24}H_{50}S$; MW=370.72) **[D-39]**

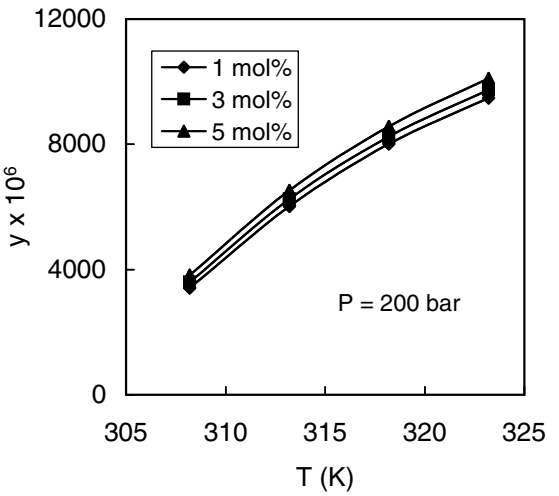
T (K)	P (bar)	y x 10^6
310	110.0	750
	140.5	1560
	201.0	2600
320	110.0	230
	140.5	1040
	201.0	2400

Synonym: Didodecylsulfane
Source: Schmitt, W. J.; Reid, R. C.
Chem. Eng. Comm. (1988), 64, 155-176.

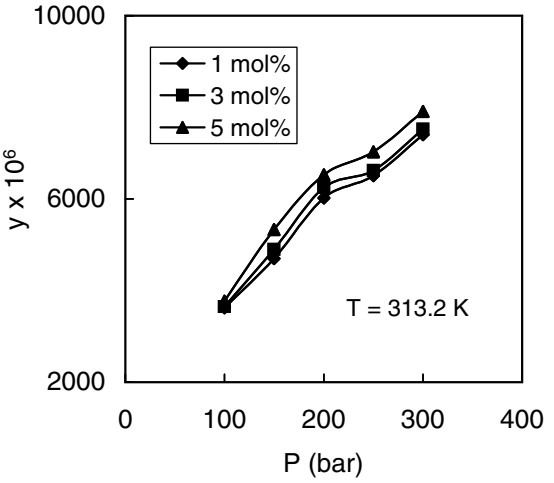


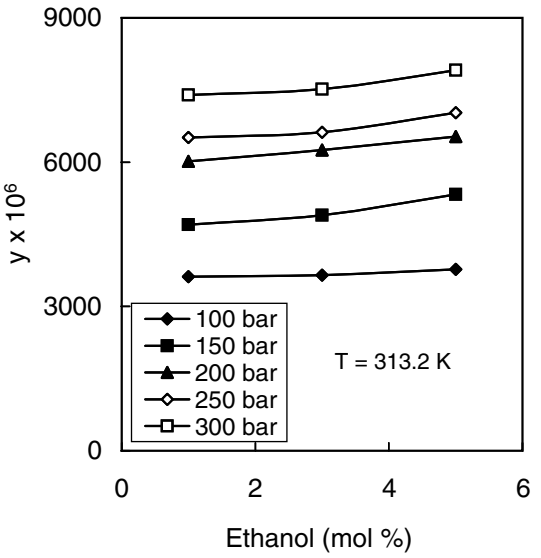
Diethylammonium diethyldithiocarbamate ($C_5H_{11}NS_2 \cdot C_4H_{11}N$; FW=222.41) **[D-40]**

T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
308.2	100	1	1000
		3	1210
		5	1450
	150	1	2230
		3	2440
		5	2760
	200	1	3410
		3	3600
		5	3820
	250	1	4310
		3	4460
		5	4780
	300	1	4550
		3	4790
		5	5100
313.2	100	1	3620
		3	3650
		5	3770



	150	1	4700
		3	4900
		5	5330
	200	1	6020
		3	6250
		5	6530
	250	1	6510
		3	6620
		5	7030
	300	1	7400
		3	7520
		5	7910
318.2	100	1	5400
		3	5980
		5	6330
	150	1	7110
		3	7530
		5	7760
	200	1	8010
		3	8250
		5	8570
	250	1	8420
		3	8730
		5	9060
	300	1	8850
		3	9120
		5	9570
323.2	100	1	6600
		3	7230
		5	7650
	150	1	8710
		3	9020
		5	9360
	200	1	9480
		3	9740
		5	10100
	250	1	10000
		3	10200
		5	10730
	300	1	10600
		3	11100
		5	11600



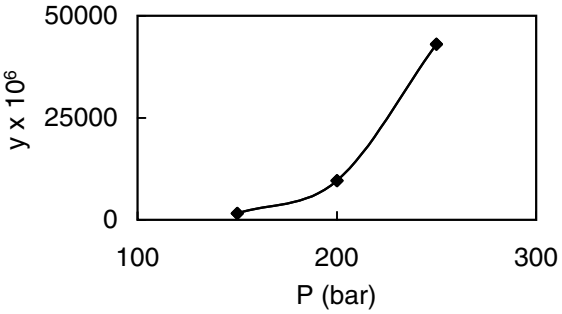


1: Cosolvent in CO_2.
Synonyms: Diethylamine diethyldithiocarbamate; *N,N*-Diethyldithiocarbamic acid diethylamine salt
Source: Wang, T.; Wang, H. *Chem. Eng. Process.* (2003), 42(1), 61-65.

Di-(2-ethylhexyl)phosphoric acid ($C_{16}H_{35}O_4P$; MW=322.42) **[D-41]**

T (K)	P (bar)	M (mol/L)	y[1)] x 10^6
333	150	0.02	1600
	200	0.16	9600
	250	0.81	43000

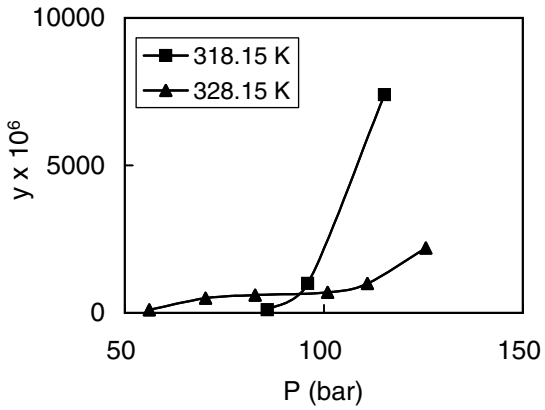
1: Calculated from M.
Synonym: Bis(2-ethylhexyl) phosphate
Source: Meguro, Y.; Iso, S.; Sasaki, T.; Yoshida, Z. *Anal. Chem.* (1998), 70(4), 774-779



Diethyl phthalate ($C_{12}H_{14}O_4$; MW=222.24) **[D-42]**

T (K)	P (bar)	y x 10^6
318.15	85.8	100
	96.0	1000
	115.3	7400
328.15	56.2	100
	70.3	500
	82.7	600
	101.0	700
	111.0	1000
	125.6	2200

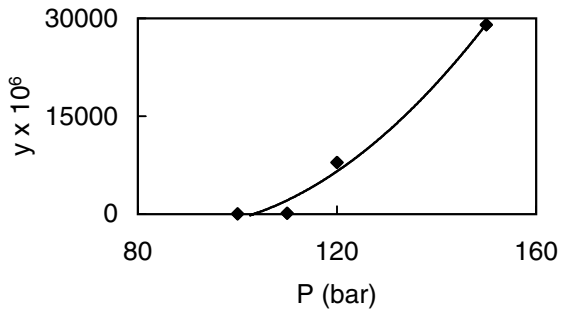
Synonyms: Phthalic acid diethyl ester; Diethyl 1,2-benzenedicarboxylate
Source: Cheng, K.-W.; Kuo, S.-J.; Tang, M.; Chen, Y.-P. *J. Supercrit. Fluids* (2000), 18(2), 87-99.



Dihexyl-(*N*,*N*-diethylcarbamoyl)methylphosphonate ($C_{18}H_{38}NO_4P$; MW=363.47) **[D-43]**

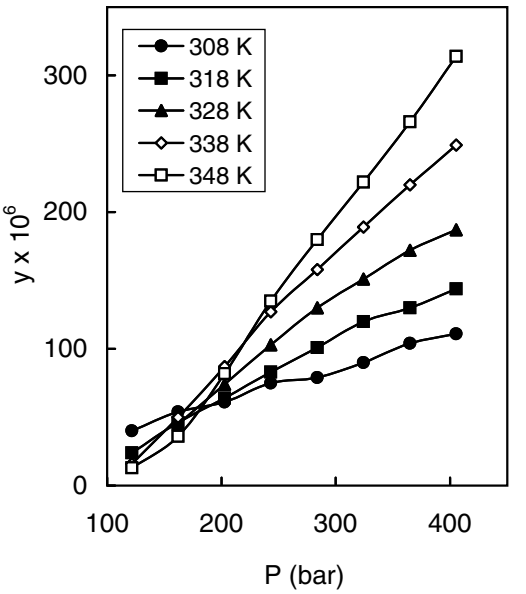
T (K)	P (bar)	M (mol/L)	y[1)] x 10^6
333	100	0.0002	35
	110	0.0010	120
	120	0.0780	7900
	150	0.4100	29000

1: Calculated from M.
Synonym: Dihexyl(diethylcarbamoyl) methylphosphonate
Source: Meguro, Y.; Iso, S.; Sasaki, T.; Yoshida, Z. *Anal. Chem.* (1998), 70(4), 774-779.



1,4-Dihydroxyanthraquinone ($C_{14}H_8O_4$; MW=240.21) **[D-44]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	0.17	40
	162.1	0.24	54
	202.7	0.29	61
	243.2	0.37	75
	283.7	0.40	79
	324.2	0.47	90
	364.8	0.54	104
	405.3	0.59	111
318	121.6	0.08	24
	162.1	0.19	46
	202.7	0.29	64
	243.2	0.39	83
	283.7	0.48	101
	324.2	0.59	120
	364.8	0.65	130
	405.3	0.75	144
328	162.1	0.17	45
	202.7	0.30	74
	243.2	0.45	103
	283.7	0.60	130
	324.2	0.71	151
	364.8	0.83	172
	405.3	0.93	187
338	121.6	0.03	16
	162.1	0.16	50
	202.7	0.33	87
	243.2	0.52	127
	283.7	0.69	158
	324.2	0.85	189
	364.8	1.02	220
	405.3	1.19	249
348	121.6	0.02	13
	162.1	0.10	36
	202.7	0.28	82
	243.2	0.52	135
	283.7	0.74	180
	324.2	0.95	222
	364.8	1.19	266
	405.3	1.44	314

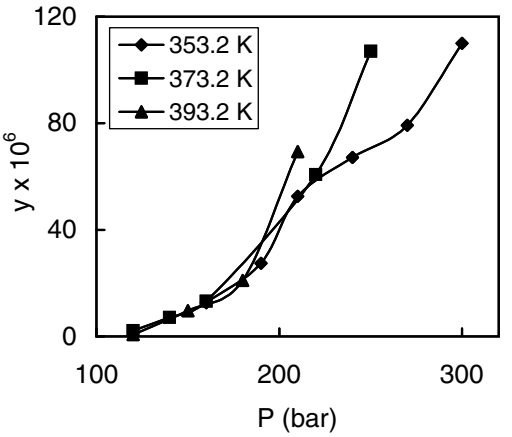


Synonyms: C. I. Solvent Orange 86; Quinizarin

Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (1998), 43(3), 400-402.

1,4-Dihydroxyanthraquinone ($C_{14}H_8O_4$; MW=240.21) **[D-45]**

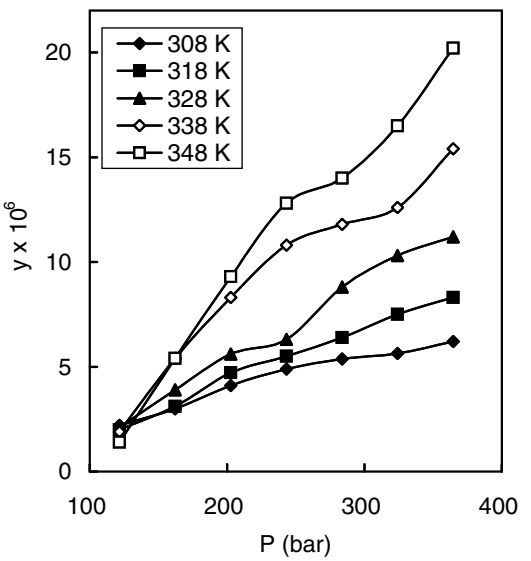
T (K)	P (bar)	y x 10^6
353.2	160	12.6
	190	27.5
	210	52.6
	240	67.2
	270	79.2
	300	110.0
373.2	120	2.2
	140	7.2
	160	13.2
	220	60.8
	250	107.0
393.2	120	0.7
	150	9.6
	180	21.0
	210	69.4



Synonyms: C. I. Solvent Orange 86; Quinizarin
Source: Ferri, A.; Banchero, M.; Manna, L.; Sicardi, S. *J. Supercrit. Fluids* (2004), 30(1), 41-49.

1,8-Dihydroxyanthraquinone ($C_{14}H_8O_4$; MW=240.21) **[D-46]**

T (K)	P (bar)	S (g/m^3)	$y^{1)}$ x 10^6
308.15	122	9	2.2
	162	12	3.0
	203	20	4.1
	243	24	4.9
	284	27	5.4
	324	29	5.6
	365	32	6.2
318.15	122	8	2.0
	162	13	3.1
	203	21	4.7
	243	26	5.5
	284	31	6.4
	324	37	7.5
	365	42	8.3
328.15	122	6	2.1
	162	15	3.9
	203	23	5.6
	243	28	6.3
	284	40	8.8
	324	49	10.3
	365	54	11.2
338.15	122	4	1.9
	162	18	5.4
	203	31	8.3
	243	45	10.8

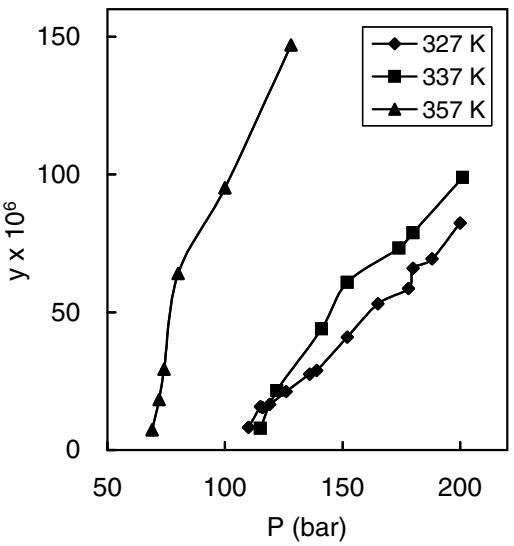


	284	50	11.8
	324	57	12.6
	365	71	15.4
348.15	122	2	1.4
	162	15	5.4
	203	32	9.3
	243	49	12.8
	284	57	14.0
	324	71	16.5
	365	90	20.2

1: The magnitude " x 10^4 " of y in the original table must have been misprinted and thus was corrected to " x 10^5" based on S.
Synonym: Danthron
Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *Talanta* (1999), 48(4), 951-957.

1,8-Dihydroxyanthraquinone ($C_{14}H_8O_4$; MW=240.21) **[D-47]**

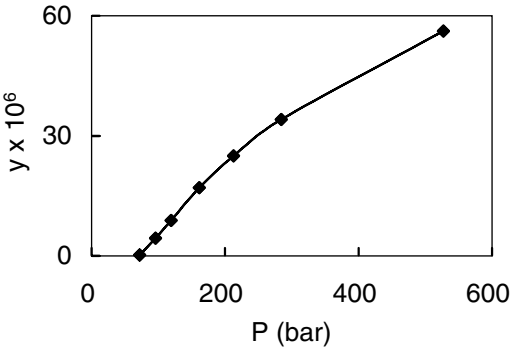
T (K)	P (bar)	y x 10^6
327	110	8.2
	115	15.8
	116	15.4
	119	16.5
	126	21.2
	136	27.5
	139	28.9
	152	41.0
	165	53.1
	178	58.6
	180	65.9
	188	69.4
	200	82.4
337	115	7.9
	122	21.5
	141	44.0
	152	60.8
	174	73.3
	180	78.8
	201	98.9
357	69	7.3
	72	18.3
	74	29.3
	80	64.1
	100	95.2
	128	147.0



Synonym: Danthron
Source: Galia, A.; Argentino, A.; Scialdone, O.; Filardo, G. *J. Supercrit. Fluids* (2002), 24(1), 7-17.

1,8-Dihydroxyanthraquinone ($C_{14}H_8O_4$; MW=240.21) **[D-48]**

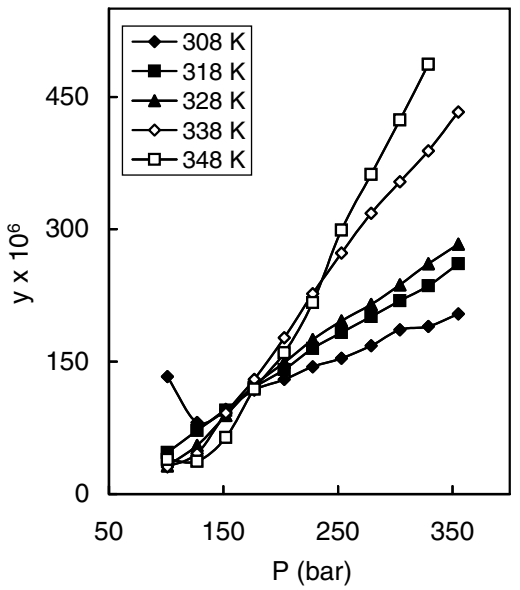
T (K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	72	0.0028	0.26
	96	0.0477	4.42
	119	0.0953	8.83
	161	0.1837	17.03
	213	0.2698	25.00
	284	0.3674	34.05
	527	0.6059	56.15



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which designates one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: Danthron
Source: Stahl, E. *Rev. Latinoam. Quim.* (1980), 11(1), 1-7.

1,8-Dihydroxyanthrone ($C_{14}H_{10}O_3$; MW=226.23) **[D-49]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.49	133
	127	0.32	81
	152	0.40	96
	177	0.51	118
	203	0.58	130
	228	0.66	144
	253	0.72	154
	279	0.79	168
	304	0.89	186
	329	0.92	190
	355	1.00	204
318	101	0.12	47
	127	0.25	72
	152	0.36	95
	177	0.49	121
	203	0.59	141
	228	0.71	165
	253	0.81	183
	279	0.90	201
	304	1.01	219
	329	1.10	236
	355	1.24	261
328	101	0.06	32
	127	0.16	55
	152	0.30	89
	177	0.45	123
	203	0.58	149
	228	0.71	175
	253	0.82	196



	279	0.92	215
	304	1.04	237
	329	1.17	261
	355	1.29	283
338	101	0.04	31
	127	0.10	46
	152	0.27	92
	177	0.43	130
	203	0.63	177
	228	0.86	227
	253	1.08	273
	279	1.29	318
	304	1.48	354
	329	1.66	389
	355	1.89	433
348	101	0.05	39
	127	0.06	37
	152	0.16	64
	177	0.35	119
	203	0.52	160
	228	0.76	217
	253	1.10	299
	279	1.39	362
	304	1.68	424
	329	1.98	487

Synonyms: 1,8-Dihydroxyanthracen-9(10*H*)-one; 1,8-Dihydroxy-9-anthrone

Source: Karami, A. R.; Yamini, Y.; Ghiasvand, A. R.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (2001), 46(6), 1371-1374.

Dihydroxybenzenes ($C_6H_6O_2$; MW=110.11) **[D-50]**

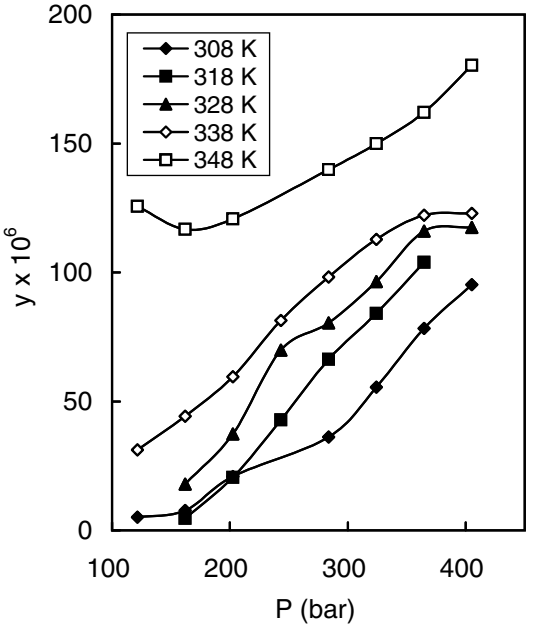
Compounds	Synonyms	T (K)	P(bar)	yx 10^6
o-Dihydroxybenzene	1,2-Benzenediol; Pyrocatechol	328	310	1800
m-Dihydroxybenzene	1,3-Benzenediol; Resorcinol	328	310	485
p-Dihydroxybenzene	1,4-Benzenediol; Hydroquinone	328	310	21

Source: Krukonis, V. J.; Kurnik, R. T. *J. Chem. Eng. Data* (1985), 30(3), 247-249.

1,8-Dihydroxy-2,7-bis (prop-1′-enyl)anthraquinone ($C_{20}H_{16}O_4$; MW=320.34) **[D-51]**

T (K)	P (bar)	S (g/m^3)	$y^{1)}$ x 10^6
308.15	122	29	5.2
	162	47	7.8
	203	132	20.9
	284	243	36.2
	324	381	55.6
	365	547	78.3
	405	676	95.2

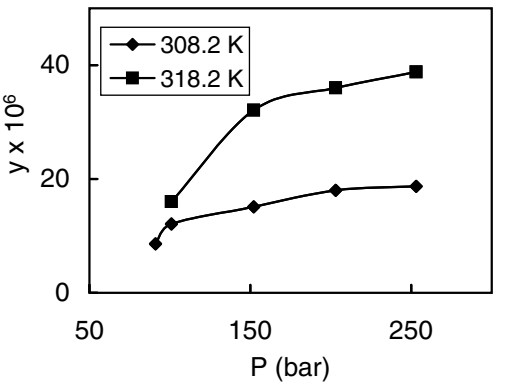
318.15	162	26	4.7
	203	122	20.5
	243	266	42.8
	284	426	66.4
	324	554	84.1
	365	700	103.9
328.15	162	90	17.9
	203	207	37.4
	243	410	69.9
	284	492	80.5
	324	609	96.4
	365	752	116.0
	405	779	117.5
338.15	122	90	31.1
	162	194	44.2
	203	303	59.6
	243	448	81.4
	284	570	98.3
	324	681	112.9
	365	761	122.2
	405	785	122.8
348.15	122	300	125.6
	162	440	116.7
	203	558	120.8
	284	766	139.8
	324	862	150.0
	365	967	162.1
	405	1109	180.4



1: The y values in the source table did not agree with S and thus were re-calculated based on S.
Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *Talanta* (1999), 48(4), 951-957.

7,8-Dihydroxyflavone ($C_{15}H_{10}O_4$; MW=254.24) **[D-52]**

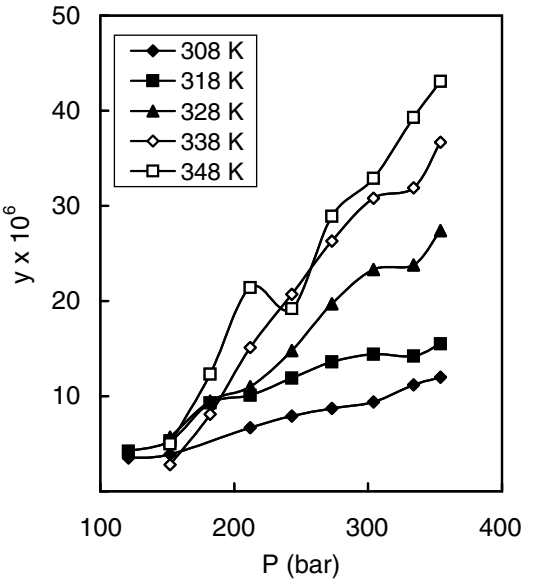
T (K)	P (bar)	y x 10^6
308.2	91	8.6
	101	12.1
	152	15.1
	203	18.0
	253	18.7
318.2	101	16.0
	152	32.1
	203	36.0
	253	38.8



Synonym: 7,8-Dihydroxy-2-phenyl-4-benzopyrone
Source: Matsuyama, K.; Mishima, K.; Ohdate, R.; Chidori, M.; Yang, H. *J. Chem. Eng. Data* (2003), 48(4), 1040-1043.

1,4-Dihydroxy-3-methylthioxanthone ($C_{14}H_{10}O_3S$; MW=258.29) **[D-53]**

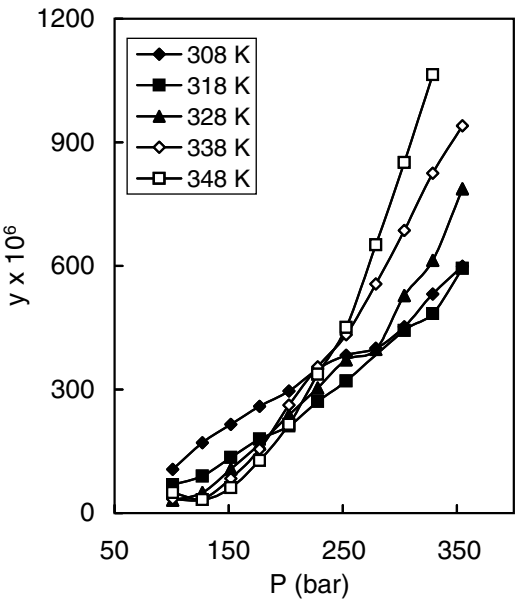
T (K)	P (bar)	S (g/L)	y x 10^6
308	121	0.016	3.5
	152	0.019	3.9
	212	0.035	6.7
	243	0.041	7.9
	273	0.047	8.7
	304	0.052	9.4
	334	0.062	11.2
	354	0.067	12.0
318	121	0.016	4.2
	152	0.023	5.3
	182	0.043	9.3
	212	0.049	10.1
	243	0.060	11.9
	273	0.070	13.6
	304	0.023	14.4
	334	0.076	14.2
	354	0.083	15.5
328	152	0.022	5.7
	182	0.040	9.5
	212	0.050	11.0
	243	0.070	14.8
	273	0.096	19.7
	304	0.117	23.3
	334	0.122	23.8
	354	0.142	27.4
338	152	0.009	2.8
	182	0.031	8.1
	212	0.063	15.1
	243	0.091	20.7
	273	0.121	26.3
	304	0.147	30.8
	334	0.156	31.9
	354	0.183	36.7
348	152	0.014	5.0
	182	0.042	12.3
	212	0.082	21.4
	243	0.079	19.2
	273	0.126	28.9
	304	0.149	32.9
	334	0.184	39.3
	354	0.205	43.1



Synonym: 1,4-Dihydroxy-3-methyl-9*H*-thioxanthen-9-one
Source: Shamsipur, M .; Karami, A.R.; Yamini, Y.; Sharghi, H.; Salimi, A. R. *J. Chem. Eng. Data* (2003), 48(5), 1088-1091.

1,8- Dihydroxy-2-(prop-2'-enyl)anthrone ($C_{17}H_{14}O_3$; MW=266.30) **[D-54]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.44	106
	127	0.78	171
	152	1.02	215
	177	1.28	259
	203	1.50	296
	228	1.81	350
	253	2.01	383
	279	2.14	400
	304	2.45	452
	329	2.92	532
	355	3.34	599
318	101	0.21	69
	127	0.36	90
	152	0.59	135
	177	0.82	180
	203	1.01	212
	228	1.33	271
	253	1.61	321
	304	2.30	443
	329	2.56	484
	355	3.19	594
328	101	0.06	31
	127	0.16	50
	152	0.41	107
	177	0.70	168
	203	1.05	238
	228	1.39	304
	253	1.77	372
	279	1.94	397
	304	2.63	528
	329	3.10	613
	355	4.06	787
338	101	0.05	34
	127	0.08	34
	152	0.27	84
	177	0.58	155
	203	1.06	262
	228	1.52	355
	253	1.93	433
	279	2.56	556
	304	3.25	686
	329	4.00	825
	355	4.65	940
348	101	0.07	50
	127	0.06	33
	152	0.17	62
	177	0.42	128

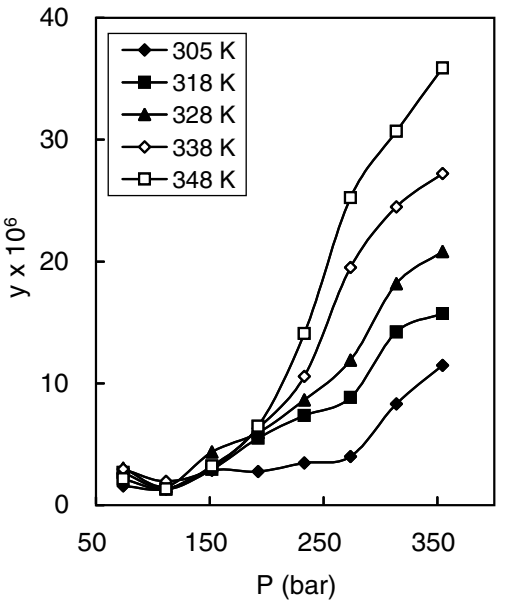


203	0.80	215
228	1.33	337
253	1.88	451
279	2.82	651
304	3.83	851
329	4.91	1064

Synonym: 1,8- Dihydroxy-2-(prop-2'-enyl)anthracen-9-one
Source: Karami, A. R.; Yamini, Y.; Ghiasvand, A. R.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (2001), 46(6), 1371-1374.

1,6-Dihydroxyxanthone ($C_{13}H_8O_4$; MW=228.20) **[D-55]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
305.15	74	0.005	1.58
	112	0.005	1.31
	152	0.012	2.85
	193	0.013	2.76
	233	0.016	3.47
	274	0.019	4.00
	314	0.041	8.32
	355	0.058	11.48
318.15	74	0.003	2.68
	112	0.004	1.31
	152	0.011	2.93
	193	0.023	5.51
	233	0.032	7.35
	274	0.040	8.85
	314	0.066	14.21
	355	0.075	15.71
328.15	74	0.003	3.05
	112	0.003	1.52
	152	0.015	4.37
	193	0.023	5.95
	233	0.036	8.63
	274	0.051	11.90
	314	0.081	18.17
	355	0.096	20.82
338.15	74	0.002	2.97
	112	0.003	1.96
	152	0.009	3.05
	193	0.022	6.30
	233	0.041	10.56
	274	0.080	19.51
	314	0.104	24.47
	355	0.120	27.23



348.15	74	0.002	2.15
	112	0.002	1.34
	152	0.003	3.21
	193	0.020	6.47
	233	0.050	14.09
	274	0.097	25.24
	314	0.124	30.69
	355	0.151	35.88

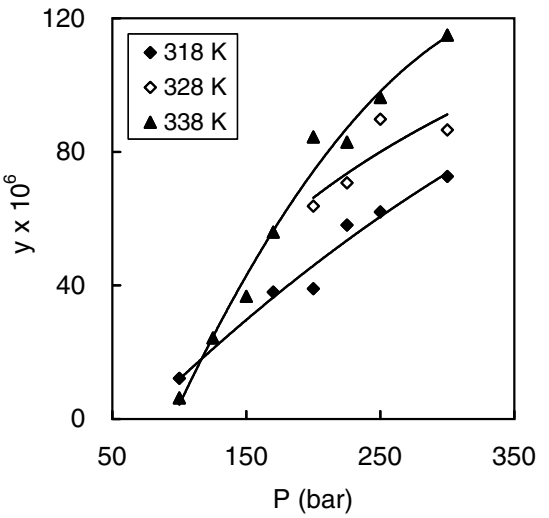
1: The order of magnitude (x 10^4) of y in the original table must have been misprinted and thus was corrected to "x 10^6" based on S. Some y values at low pressures at each temperature still do not match S values.

Synonym: 1,6-Dihydroxyxanthen-9-one

Source: Ghiasvand, A. R.; Hosseini, M.; Sharghi, H.; Yamini, Y.; Shamsipur, M. *J. Chem. Eng. Data* (1999), 44(6), 1135-1138.

Diiodomethyl *p*-tolyl sulfone ($C_8H_8I_2O_2S$; MW=422.02) **[D-56]**

T (K)	P (bar)	y x 10^6
318	100	12.2
	170	38.0
	200	39.0
	225	58.1
	250	62.0
	300	72.6
328	200	63.8
	225	70.7
	250	89.8
	300	86.6
338	100	6.3
	125	24.3
	150	36.7
	170	56.0
	200	84.5
	225	82.9
	250	96.3
	300	115.0

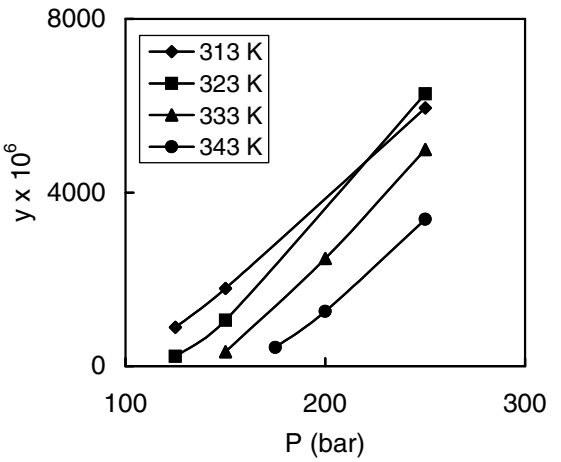


Synonym: *p*-Tolyl diiodomethyl sulfone

Source: Sahle-Demessie, E.; Pillai, U. R.; Junsophonsri, S.; Levien, K. L. *J. Chem. Eng. Data* (2003), 48(3), 541-547.

Diisodecyl phosphoric acid ($C_{20}H_{43}O_4P$; MW=378.53) **[D-57]**

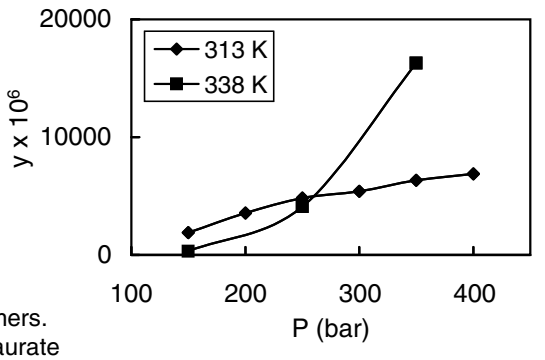
T (K)	P (bar)	M (mol/l)	$y^{1)} \times 10^6$
313	125	0.015	897
	150	0.032	1790
	250	0.120	5950
323	125	0.003	227
	150	0.017	1060
	250	0.120	6270
333	150	0.005	332
	200	0.041	2480
	250	0.090	4990
343	175	0.006	431
	200	0.019	1260
	250	0.057	3380



1: Calculated from M.
Synonym: Bis(8-methylnonyl) hydrogen phosphate
Source: Meguro, Y.; Iso, S.; Sasaki, T.; Yoshida, Z. *Anal. Chem.* (1998), 70(4), 774-779.

Dilaurin[1)] ($C_{27}H_{52}O_5$; MW=456.70) **[D-58]**

T (K)	P (bar)	$y \times 10^6$
313	150	1886
	200	3571
	250	4837
	300	5400
	350	6350
	400	6875
338	150	322
	250	4116
	350	16277

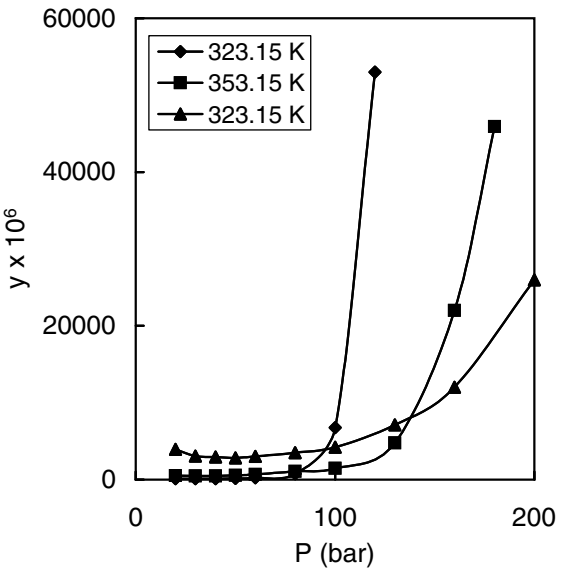


1: Equimolar mixture of 1,2- and 1,3-dilaurin isomers.
Synonyms: Didodecanoyl glycerol; Glycerol dilaurate
Source: Ashour, I.; Hammam, H. *J. Supercrit. Fluids* (1993), 6(1), 3-8. (Also, see the graph in Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106).

1,2-Dimethoxybenzene ($C_8H_{10}O_2$; MW=138.16) **[D-59]**

T (K)	P (bar)	$y \times 10^6$
323.15	20	101
	30	108
	40	134
	50	168
	60	255
	80	757
	100	6770
	120	53000

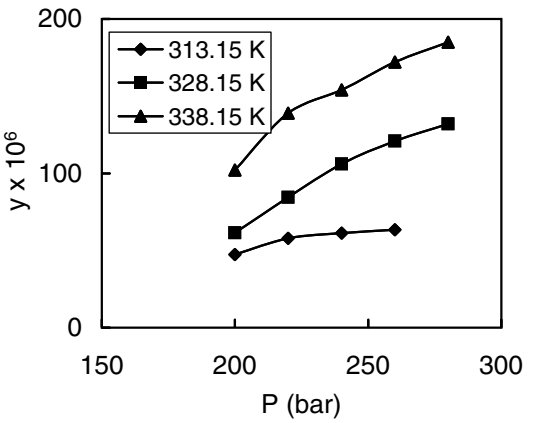
353.15	20	525
	30	468
	40	465
	50	546
	60	661
	80	1060
	100	1460
	130	4770
	160	22000
	180	45900
393.15	20	3940
	30	3080
	40	2960
	50	2830
	60	3040
	80	3520
	100	4200
	130	7140
	160	12000
	200	26000



Synonym: 2-Methoxyanisole
Source: Lee, M.-J.; Kou, C.-F.; Cheng, J.-W.; Lin, H.-m. *Fluid Phase Equil.* (1999), 162(1-2), 211-224.

1,4-Dimethoxybenzene ($C_8H_{10}O_2$; MW=138.16) **[D-60]**

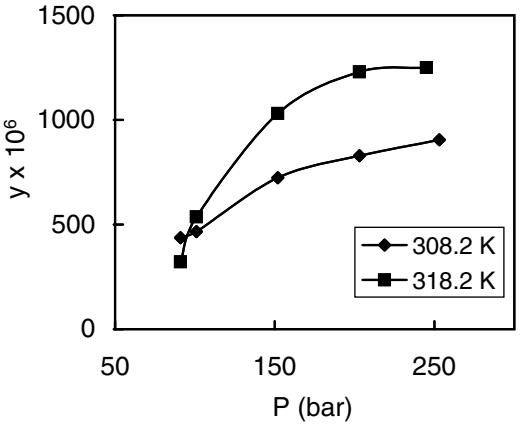
T (K)	P (bar)	y x 10^6
313.15	200	47.4
	220	57.9
	240	61.3
	260	63.4
328.15	200	61.4
	220	84.4
	240	106.0
	260	121.0
	280	132.0
338.15	200	102.0
	220	139.0
	240	154.0
	260	172.0
	280	185.0



Synonyms: 4-Methoxyanisole; Hydroquinone dimethyl ether
Source: Lee, L.-S.; Fu, J.-H.; Hsu, H.-L. *J. Chem. Eng. Data*(2000), 45(2), 358-361.

***p*-Dimethylaminoazobenzene** ($C_{14}H_{15}N_3$; MW=225.29) **[D-61]**

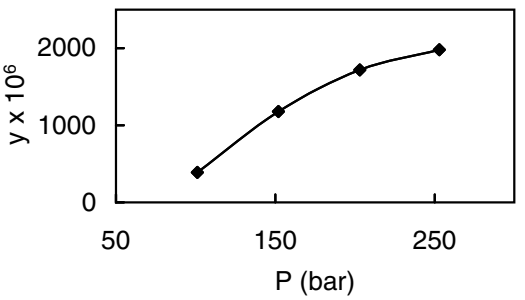
T (K)	P (bar)	y x 10^6
308.2	91	437
	101	467
	152	724
	203	829
	253	905
318.2	91	322
	101	537
	152	1030
	203	1230
	245	1250



Synonym: 4-Dimethylaminoazobenzene
Source: Maeda, S.; Mishima, K.; Matsuyama, K.; Baba, M.; Hirabaru, T.; Ishikawa, H.; Hayashi, K.-I. *J. Chem. Eng. Data* (2001), 46(3), 647-650.

***p*-Dimethylaminoazobenzene** ($C_{14}H_{15}N_3$; MW=225.29) **[D-62]**

T (K)	P (bar)	y x 10^6
333.2	101	390
	152	1180
	203	1720
	253	1980

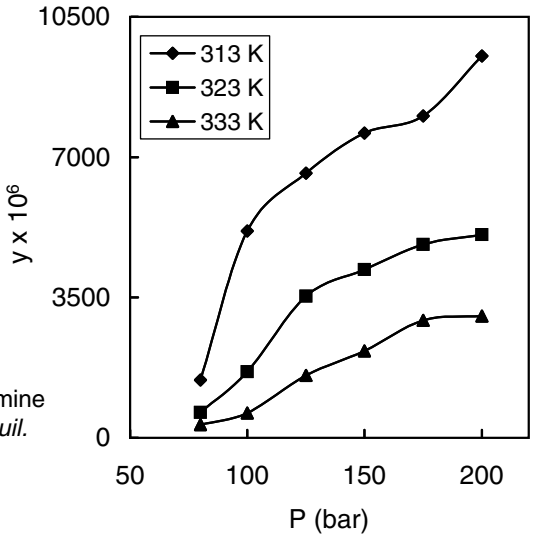


Synonym: 4-Dimethylaminoazobenzene
Source: Mishima, K.; Matsuyama, K.; Ishikawa, H.; Hayashi, K-I.; Maeda, S. *Fluid Phase Equil.* (2002), 194-197, 895-904.

2,5-Dimethylaniline ($C_8H_{11}N$; MW=121.18) **[D-63]**

T (K)	P (bar)	y x 10^6
313	80	1440
	100	5160
	125	6600
	150	7600
	175	8030
	200	9520

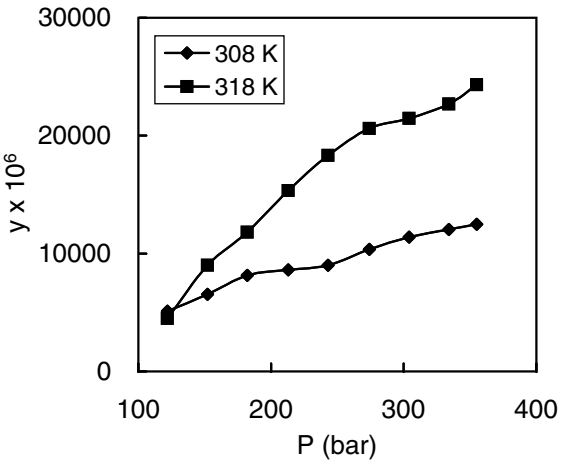
323	80	630
	100	1650
	125	3530
	150	4200
	175	4820
	200	5070
333	80	330
	100	620
	125	1560
	150	2170
	175	2930
	200	3040



Synonyms: 2,5-Xylidine; 2,5-Dimethylbenzenamine
Source: Medina, I.; Bueno, J. L. *Fluid Phase Equil.* (2001), 187-188, 337-345.

Dimethyl 2*H*-1-benzopyran-2,3-dicarboxylate ($C_{13}H_{12}O_5$; MW=284.23) **[D-64]**

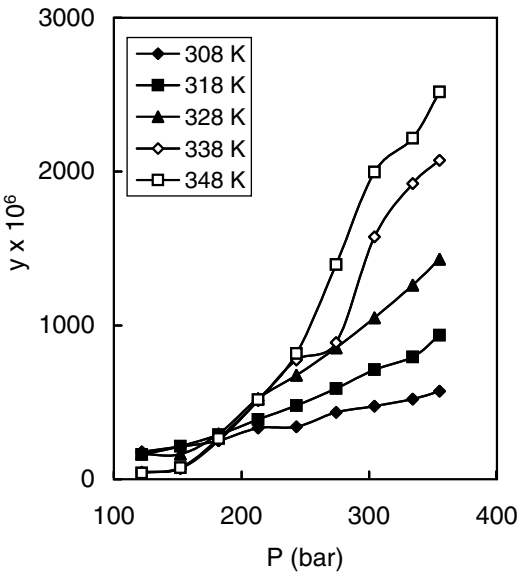
T (K)	P (bar)	S (g/L)	y[1] x 10^6
308	122	25.65	5103
	152	34.88	6541
	182	45.26	8156
	213	49.31	8620
	243	52.74	9003
	274	61.92	10344
	304	69.41	11388
	334	74.50	12033
	355	78.14	12495
318	122	19.57	4493
	152	44.00	9011
	182	61.27	11798
	213	83.36	15344
	243	102.99	18329
	274	119.04	20601
	304	126.78	21468
	334	136.50	22671
	355	148.37	24323



1: The y values in the source table did not agree with S and thus were re-calculated based on S.
Synonym: Dimethyl 2*H*-chromene-2,3-dicarboxylate
Source: Bahramifar, N.; Yamini, Y.; Ramazani, A.; Noshiranzadeh, N. *J. Chem. Eng. Data* (2003), 48(5), 1104-1108.

Dimethyl 6-bromo-2*H*-1-benzopyran-2,3-dicarboxylate ($C_{13}H_{11}BrO_5$; MW=327.13) **[D-65]**

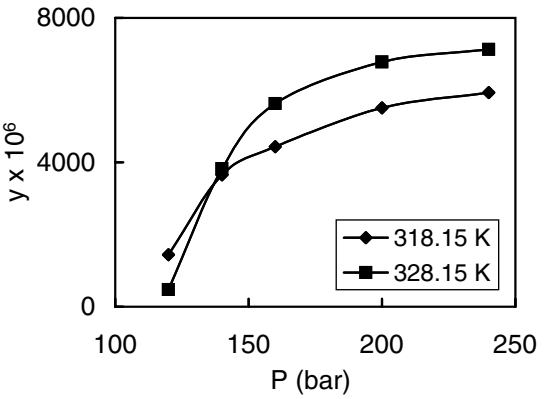
T (K)	P (bar)	S (g/L)	y x 10^6
308	122	1.02	178
	152	1.30	213
	182	1.58	251
	213	2.17	333
	243	2.28	341
	274	2.96	435
	304	3.29	474
	334	3.67	521
	355	4.07	573
318	122	0.79	161
	152	1.19	214
	182	1.71	290
	213	2.39	389
	243	3.03	478
	274	3.84	589
	304	4.73	712
	334	5.38	794
	355	6.40	936
328	122	0.63	164
	152	0.79	162
	182	1.59	294
	213	3.01	525
	243	4.05	676
	274	5.27	853
	304	6.66	1049
	334	8.19	1261
	355	9.41	1430
338	122	0.13	46
	152	0.28	68
	182	1.22	251
	213	2.71	512
	243	4.35	775
	274	5.19	888
	304	9.53	1575
	334	11.95	1923
	355	13.10	2073
348	122	0.10	41
	152	0.26	74
	182	1.15	265
	213	2.50	516
	243	4.27	818
	274	7.69	1396
	304	11.48	1996
	334	13.15	2217
	355	15.21	2517



Synonym: Dimethyl 6-bromo-2*H*-chromene-2,3-dicarboxylate
Source: Bahramifar, N.; Yamini, Y.; Ramazani, A.; Noshiranzadeh, N. *J. Chem. Eng. Data* (2003), 48(5), 1104-1108.

2,3-Dimethylhexane (C_8H_{18}; MW=114.23) **[D-66]**

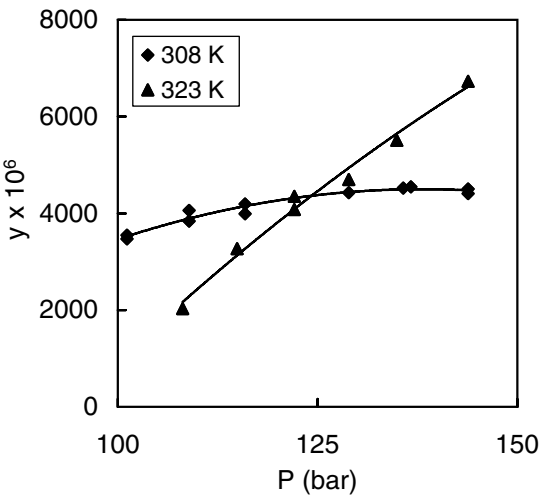
T (K)	P (bar)	y x 10^6
318.15	120	1440
	140	3650
	160	4430
	200	5510
	240	5930
328.15	120	475
	140	3820
	160	5630
	200	6780
	240	7130



Source: Lee, L.-S.; Huang, J.-F.; Zhu, O.-X. *J. Chem. Eng. Data* (2001), 46(5), 1156-1159.

2,3-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-67]**

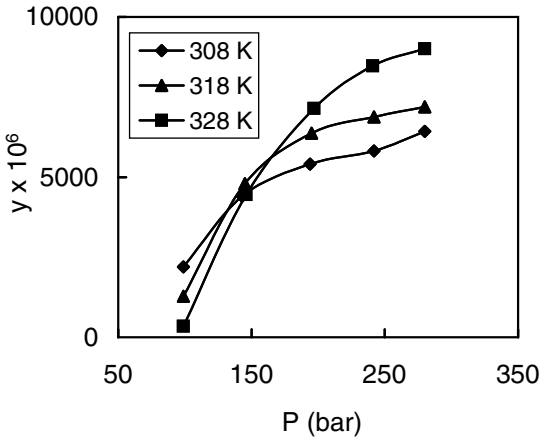
T (K)	P[1] (bar)	y[1] x 10^6
308.15	101	3470
	101	3550
	109	3840
	109	4060
	116	3990
	116	4190
	129	4430
	136	4520
	137	4550
	144	4410
	144	4500
323.15	108	2030
	115	3270
	122	4080
	122	4350
	129	4700
	135	5510
	144	6730



1: Obtained by digitizing the graph in the original article.
Source: Johnston, K. P.; Barry, S. E.; Read, N. K.; Holcomb, T. R. *Ind. Eng. Chem. Res.* (1987), 26(11), 2372-2377.

2,3-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-68]**

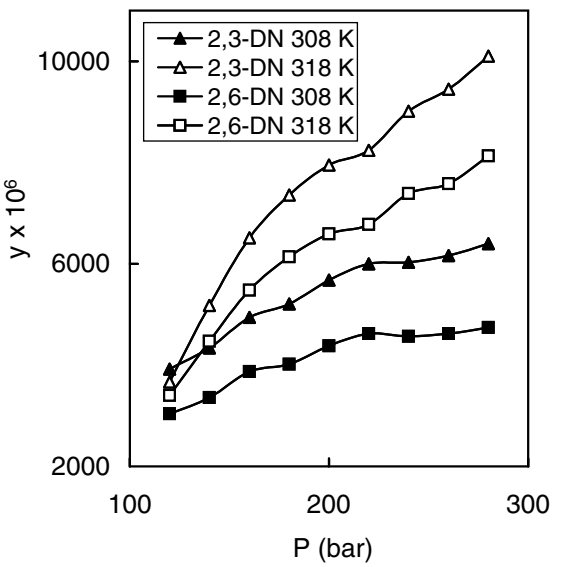
T (K)	P (bar)	y x 10^6
308	99	2200
	143	4400
	194	5410
	242	5820
	280	6430
318	99	1280
	145	4790
	195	6370
	242	6880
	280	7190
328	99	340
	146	4450
	197	7140
	241	8470
	280	9010



Source: Kurnik, R. T.; Holla, S. J.; Reid, R. C. *J. Chem. Eng. Data* (1981), 26(1), 47-51.

2,3-Dimethylnaphthalene (1) + 2,6-Dimethylnaphthalene (2) Mixture **[D-69]**

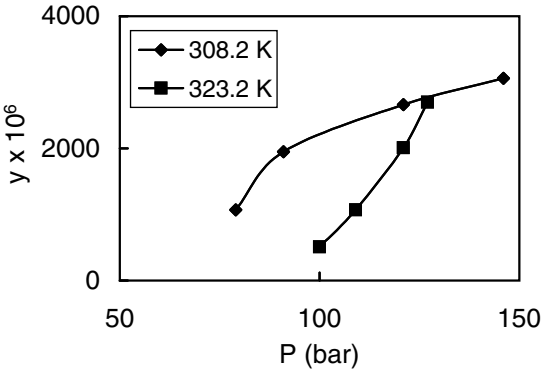
T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
308	120	3920	3040
	140	4340	3360
	160	4940	3870
	180	5210	4020
	200	5680	4380
	220	6000	4620
	240	6030	4570
	260	6160	4620
	280	6400	4740
318	120	3670	3400
	140	5180	4470
	160	6510	5480
	180	7360	6140
	200	7950	6590
	220	8240	6780
	240	9010	7390
	260	9450	7580
	280	10100	8130



Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.

2,6-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-70]**

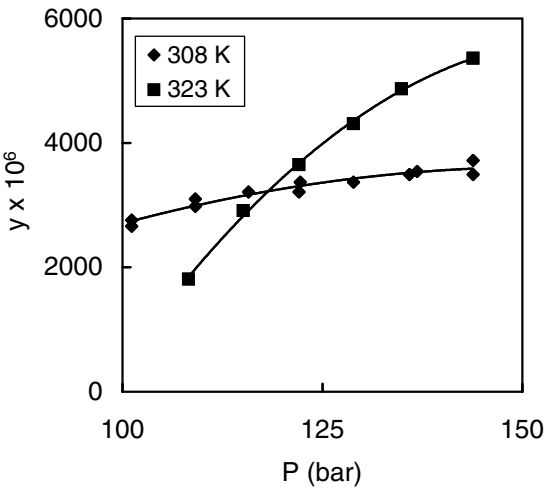
T (K)	P (bar)	y x 10^6
308.2	79	1070
	91	1950
	121	2660
	146	3060
328.2	100	509
	109	1070
	121	2010
	127	2700



Source: Iwai, Y.; Mori, Y.; Hosotani, N.; Higashi, H.; Furuya, T.; Arai, Y.; Yamamoto, K.; Mito, Y. *J. Chem. Eng. Data* (1993), 38(4), 509-511.

2,6-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-71]**

T (K)	P[1] (bar)	y[1] x 10^6
308.15	101	2660
	101	2760
	109	2980
	109	3100
	116	3210
	122	3210
	122	3370
	129	3370
	136	3490
	137	3540
	144	3490
	144	3720
323.15	108	1810
	115	2910
	122	3650
	129	4310
	135	4870
	144	5360

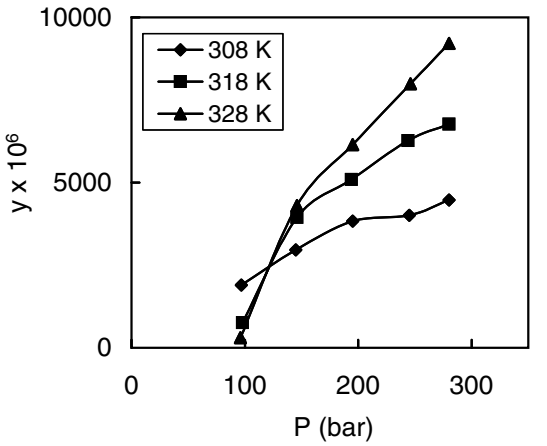


1: Obtained by digitizing the graph in the original article.

Source: Johnston, K. P.; Barry, S. E.; Read, N. K.; Holcomb, T. R. *Ind. Eng. Chem. Res.* (1987), 26(11), 2372-2377

2,6-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-72]**

T (K)	P (bar)	y x 10^6
308	97	1900
	145	2960
	195	3830
	245	4010
	280	4470
318	98	757
	146	3940
	194	5090
	244	6270
	280	6770
328	96	305
	146	4310
	195	6150
	246	7990
	280	9210

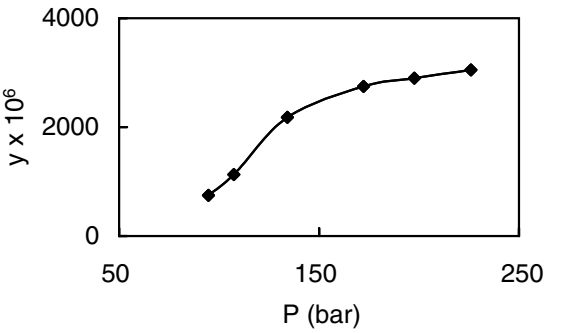


Source: Kurnik, R. T.; Holla, S. J.; Reid, R. C. *J. Chem. Eng. Data* (1981), 26(1), 47-51.

2,6-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-73]**

T (K)	P[1)] (bar)	y[1)] x 10^6
308.15	94.6	746
	107.3	1130
	134.2	2180
	172.3	2750
	197.7	2900
	226.0	3050

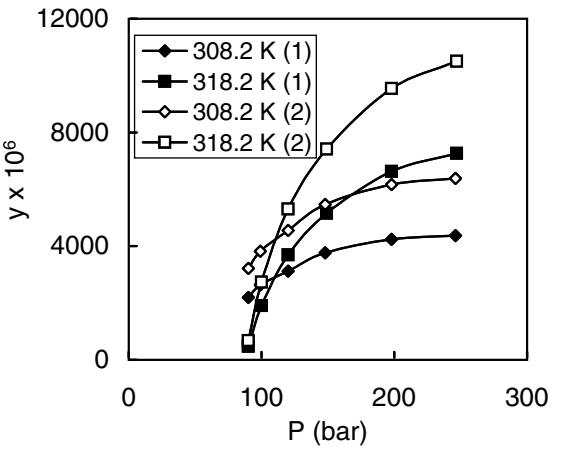
1: Obtained by digitizing the graph in the original article



Source: Nakatani, T.; Ohgaki, K.; Katayama, T. *Ind. Eng. Chem. Res.* (1991), 30(6), 1362-1366.

2,6-Dimethylnaphthalene (1) + 2,7-Dimethylnaphthalene (2) Mixture **[D-74]**

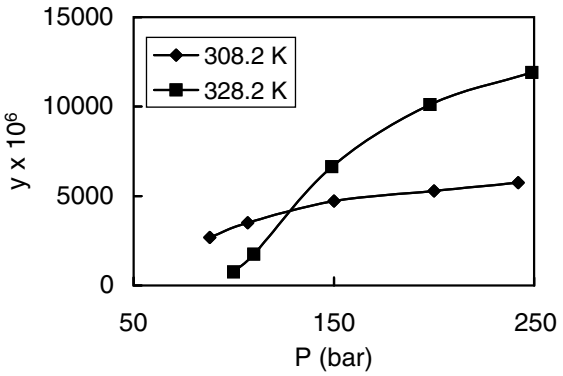
T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
308.2	90	2200	3220
	99	2640	3820
	120	3120	4550
	148	3770	5470
	198	4240	6170
	246	4370	6380
318.2	90	475	682
	100	1910	2730
	120	3690	5310
	149	5150	7420
	198	6630	9550
	247	7260	10500



Source: Iwai, Y.; Mori, Y.; Hosotani, N.; Higashi, H.; Furuya, T.; Arai, Y.; Yamamoto, K.; Mito, Y. *J. Chem. Eng. Data.* (1993), 38(4), 509-511.

2,7-Dimethylnaphthalene ($C_{12}H_{12}$; MW=156.22) **[D-75]**

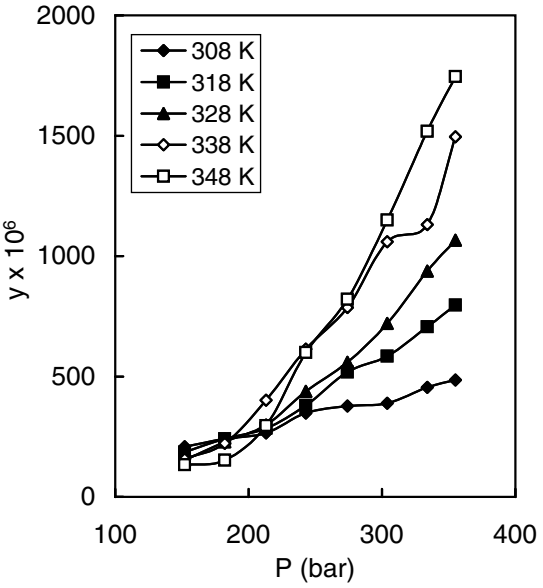
T (K)	P (bar)	y x 10^6
308.2	88	2680
	107	3510
	150	4720
	200	5290
	242	5740
328.2	100	745
	110	1750
	149	6640
	198	10100
	249	11900



Source: Iwai, Y.; Mori, Y.; Hosotani, N.; Higashi, H.; Furuya, T.; Arai, Y.; Yamamoto, K.; Mito, Y. *J. Chem. Eng. Data* (1993), 38(4), 509-511.

Dimethyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate ($C_{17}H_{14}O_5$; MW=298.29) **[D-76]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	152	1.16	208
	182	1.40	242
	213	1.58	265
	243	2.12	348
	274	2.35	378
	304	2.46	389
	334	2.92	455
	355	3.14	485
318	152	0.94	185
	182	1.30	242
	213	1.59	284
	243	2.19	380
	274	3.07	518
	304	3.55	585
	334	4.36	707
	355	4.97	797
328	152	0.68	153
	182	1.13	229
	213	1.56	298
	243	2.39	438
	274	3.15	559
	304	4.17	720
	334	5.55	938
	355	6.40	1066
338	152	0.60	157
	182	0.98	222
	213	1.94	401
	243	3.14	614
	274	4.20	787
	304	5.84	1060

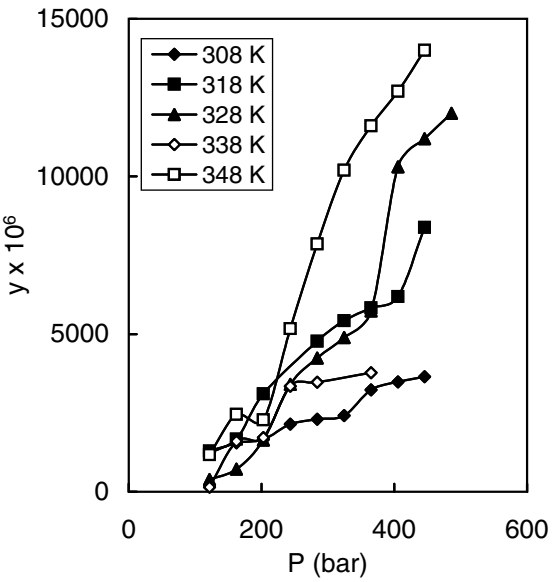


	334	6.40	1131
	355	8.61	1496
348	152	0.43	133
	182	0.61	153
	213	1.31	296
	243	2.86	600
	274	4.12	821
	304	6.03	1150
	334	8.20	1518
	355	9.62	1746

Synonym: Dimethyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate
Source: Bahramifar, N.; Yamini, Y.; Ramazani, A.; Noshiranzadeh, N. *J. Chem. Eng. Data* (2003), 48(5), 1104-1108.

2,4-Dinitrophenol ($C_6H_4N_2O_5$; MW=184.11) **[D-77]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	4.012	1240
	162.1	5.416	1550
	202.6	6.064	1660
	243.2	8.054	2140
	283.7	8.894	2300
	324.2	9.553	2420
	364.8	12.959	3230
	405.3	14.197	3480
	445.8	15.125	3650
318	121.6	3.580	1290
	162.1	5.328	1670
	202.6	10.579	3100
	283.7	17.969	4770
	324.2	20.510	5420
	364.8	22.574	5830
	405.3	24.474	6190
	445.8	33.591	8380
328	121.6	0.845	386
	162.1	2.057	718
	202.6	5.192	1640
	243.2	11.487	3410
	283.7	14.856	4240
	324.2	17.726	4890
	364.8	21.320	5730
	405.3	38.990	10300
	445.8	43.308	11200
	486.4	47.313	12000
338	121.6	0.236	141
	162.1	5.555	1600
	202.6	6.272	1720
	243.2	12.580	3350
	283.7	13.389	3470
	364.8	15.137	3770

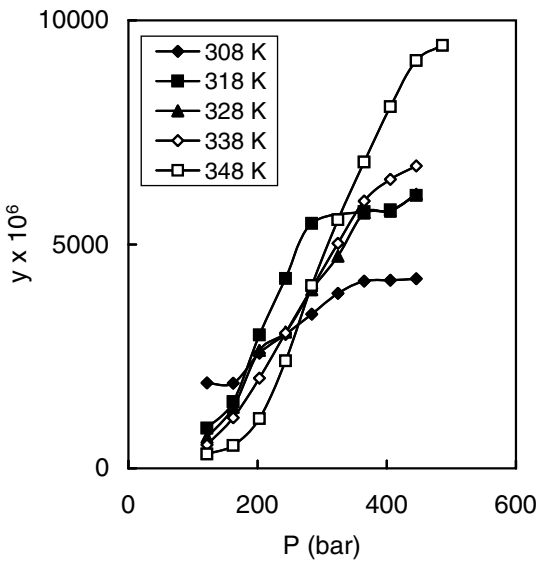


348	121.6	1.611	1170
	162.1	5.324	2450
	202.6	6.014	2280
	243.2	15.182	5170
	283.7	24.679	7860
	324.2	32.585	10200
	364.8	39.675	11600
	405.3	44.750	12700
	445.8	50.707	14000

Source: Shamsipur, M.; Fat'hi, M. R.; Yamini, Y.; Ghiasvand, A. R. *J. Supercrit. Fluids* (2002), 23(3), 225-231.

2,5-Dinitrophenol ($C_6H_4N_2O_5$; MW=184.11) **[D-78]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	6.141	1910
	162.1	6.630	1900
	202.6	9.353	2570
	243.2	11.225	2990
	283.7	13.283	3440
	324.2	15.427	3910
	364.8	16.778	4180
	405.3	17.144	4200
	445.8	17.512	4230
318	121.6	2.488	894
	162.1	4.749	1490
	202.6	10.162	2980
	243.2	15.122	4240
	283.7	20.150	5470
	364.8	22.143	5730
	405.3	22.807	5770
	445.8	24.406	6090
328	121.6	1.519	693
	162.1	3.897	1360
	202.6	8.337	2630
	243.2	10.215	3040
	283.7	14.005	3990
	324.2	17.194	4740
	364.8	21.217	5700
	405.3	21.838	5740
	445.8	23.748	6120
338	121.6	0.872	525
	162.1	2.843	1130
	202.6	5.833	2010
	243.2	9.518	3020
	283.7	13.384	4020
	324.2	17.380	5020
	364.8	21.321	5970
	405.3	23.635	6450
	445.8	25.307	6750

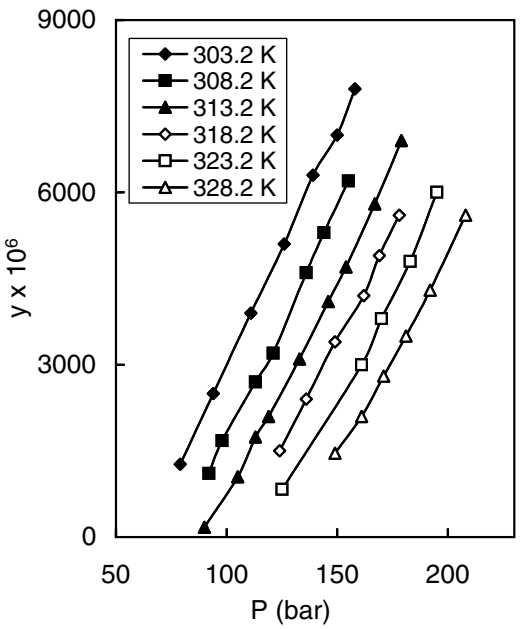


348	121.6	0.433	316
	162.1	1.116	514
	202.6	2.927	1110
	243.2	7.044	2400
	283.7	12.800	4080
	324.2	18.288	5550
	364.8	23.416	6840
	405.3	28.459	8070
	445.8	32.899	9100
	486.4	34.920	9440

Source: Shamsipur, M.; Fat'hi, M. R.; Yamini, Y.; Ghiasvand, A. R. *J. Supercrit. Fluids* (2002), 23(3), 225-231.

Dinonyl phthalate ($C_{26}H_{42}O_4$; MW=418.61) **[D-79]**

T (K)	P (bar)	y x 10^6
303.2	79	1270
	94	2500
	111	3900
	126	5100
	139	6300
	150	7000
	158	7800
308.2	92	1110
	98	1680
	113	2700
	121	3200
	136	4600
	144	5300
	155	6200
313.2	90	170
	105	1050
	113	1740
	119	2100
	133	3100
	146	4100
	154	4700
	167	5800
	179	6900
318.2	124	1500
	136	2400
	149	3400
	162	4200
	169	4900
	178	5600
323.2	125	830
	161	3000
	170	3800
	183	4800
	195	6000

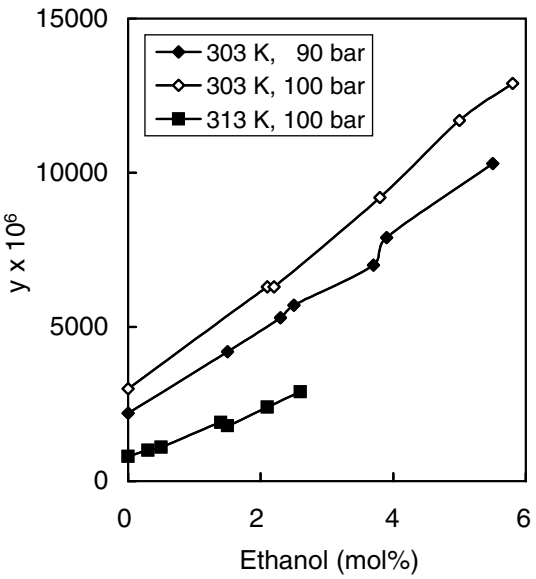


328.2	149	1460
	161	2100
	171	2800
	181	3500
	192	4300
	208	5600

Synonym: Dinonyl 1,2-benzenedicarboxylate
Source: Sovova, H.; Jez, J.; Khachaturyan, M. *Fluid Phase Equil.* (1997), 137(1-2), 185-191.

Dinonyl phthalate ($C_{26}H_{42}O_4$; MW=418.61) **[D-80]**

T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
303.15	90	0.0	2200
		1.5	4200
		2.3	5300
		2.5	5700
		3.7	7000
		3.9	7900
		5.5	10300
	100	0.0	3000
		2.1	6300
		2.2	6300
		3.8	9200
		5.0	11700
		5.8	12900
313.15	100	0.0	800
		0.3	1000
		0.5	1100
		1.4	1900
		1.5	1800
		2.1	2400
		2.6	2900

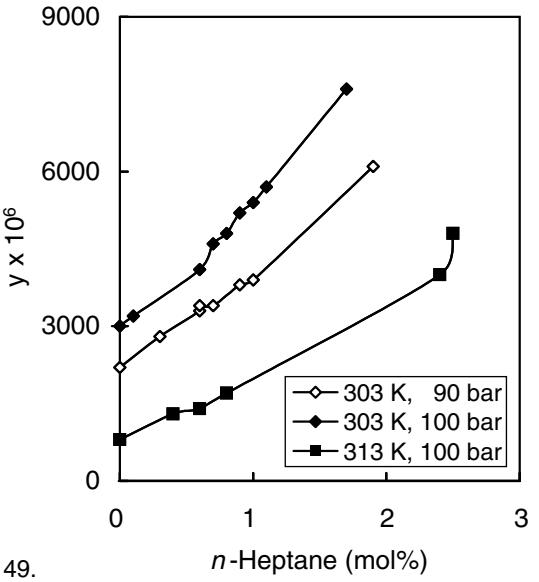


1: Cosolvent in CO_2.
Synonym: Dinonyl 1,2-benzenedicarboxylate
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Dinonyl phthalate ($C_{26}H_{42}O_4$; MW=418.61) **[D-81]**

T (K)	P (bar)	*n*-Heptane[1)] (mol%)	y x 10^6
303.15	90	0.0	2200
		0.3	2800
		0.6	3300
		0.6	3400
		0.7	3400
		0.9	3800
		1.0	3900
		1.9	6100

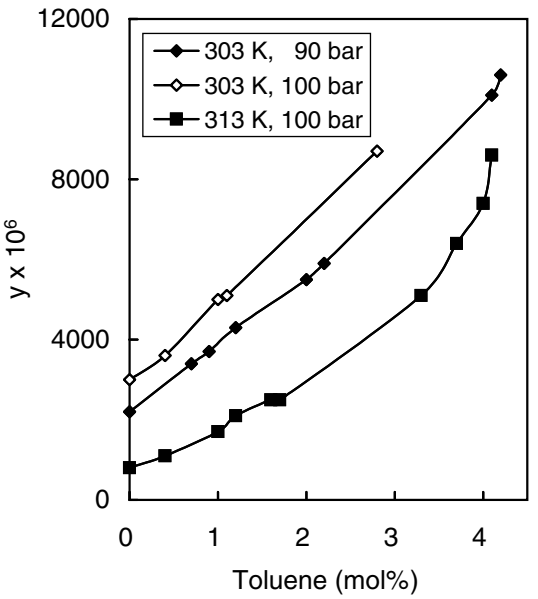
	100	0.0	3000
		0.1	3200
		0.6	4100
		0.7	4600
		0.8	4800
		0.9	5200
		1.0	5400
		1.1	5700
		1.7	7600
313.15	100	0.0	800
		0.4	1300
		0.6	1400
		0.8	1700
		2.4	4000
		2.5	4800



1: Cosolvent in CO_2.
Synonym: Dinonyl 1,2-benzenedicarboxylate
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Dinonyl phthalate ($C_{26}H_{42}O_4$; MW=418.61) **[D-82]**

T (K)	P (bar)	Toluene[1)] (mol%)	y x 10^6
303.15	90	0.0	2200
		0.7	3400
		0.9	3700
		1.2	4300
		2.0	5500
		2.2	5900
		4.1	10100
		4.2	10600
	100	0.0	3000
		0.4	3600
		1.0	5000
		1.1	5100
		2.8	8700
313.15	100	0.0	800
		0.4	1100
		1.0	1700
		1.2	2100
		1.6	2500
		1.7	2500
		3.3	5100
		3.7	6400
		4.0	7400
		4.1	8600

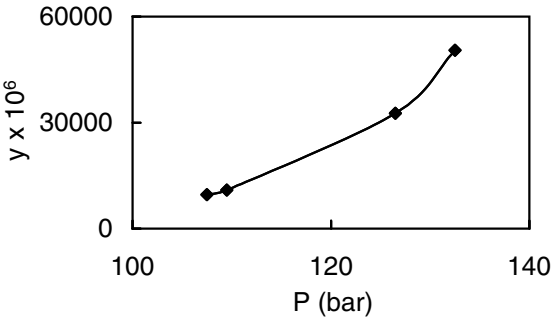


1: Cosolvent in CO_2.
Synonym: Dinonyl 1,2-benzenedicarboxylate
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Dioctyl ether ($C_{16}H_{34}O$; MW=242.44) **[D-83]**

T (K)	P (bar)	y x 10^6
320	107.5	9600
	109.5	10900
	126.5	32600
	132.5	50500

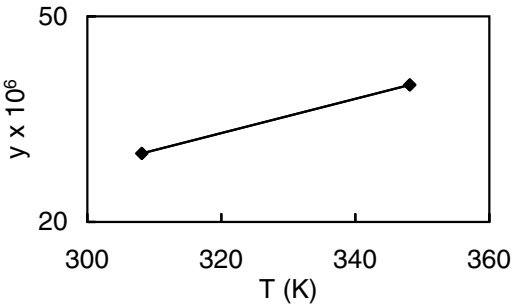
Synonyms: Dicaprylyl ether; Octyl ether
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Dioctyl phthalate ($C_{24}H_{38}O_4$; MW=390.56) **[D-84]**

T (K)	P (bar)	y x 10^6
308.15	400	30
348.15	400	40

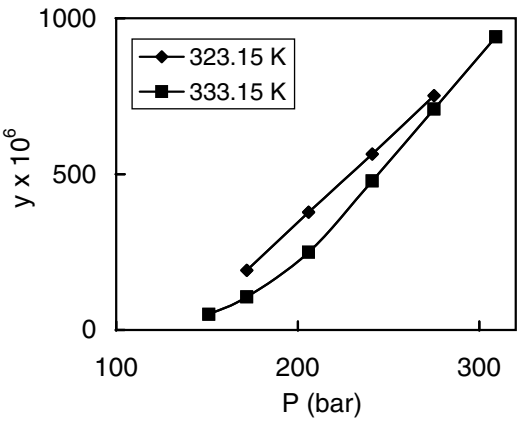
Synonym: Bis(2-ethylhexyl) phthalate
Source: Shende, R. V.; Lombardo, S. J. *J. Supercrit. Fluids* (2002), 23(2), 153-162.



Diolein ($C_{39}H_{72}O_5$; MW=620.99) **[D-85]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
323.15	151	1600	114
	172	2700	192
	206	5300	377
	241	7900	564
	275	10500	751
333.15	151	700	50
	172	1500	106
	206	3500	249
	241	6700	478
	275	9900	708
	309	13100	940

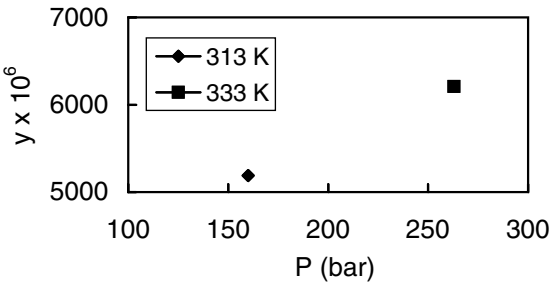
1: Calculated from w.
Synonym: Glycerol dioeate
Source: Nilsson, W. B.; Gauglitz, E. J. Jr.; Hudson, J. K. *J. Am. Oil Chem. Soc.* (1991), 68(2), 87-91.



Diphenylamine ($C_{12}H_{11}N$; MW=169.22) **[D-86]**

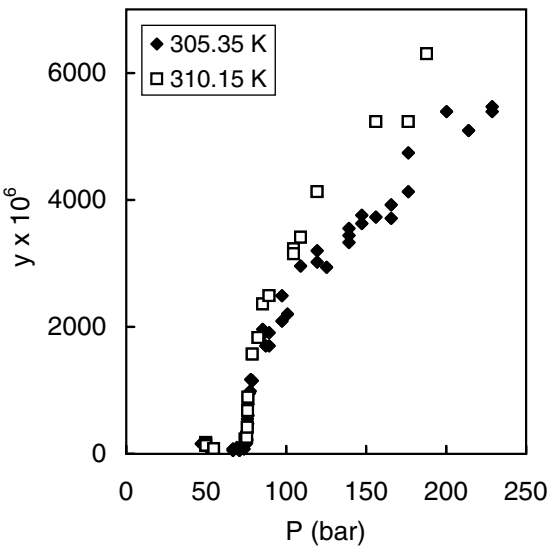
T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	60	16.00	5190
333.15	263	19.26	6210

1: Calculated form S.
Synonyms: *N*-Phenylaniline; *N*-Phenylbenzenamine
Source: Ashraf-Khorassani, M.; Taylor, L. T. *J. Chem. Eng. Data* (1999), 44(6), 1254-1258.



Diphenylamine ($C_{12}H_{11}N$; MW=169.22) **[D-87]**

T (K)	$P^{1)}$ (bar)	$w^{2)}$ (wt%)	$y^{3)} \times 10^6$
305.35	46.8	0.06	160
	66.8	0.03	78
	66.8	0.02	52
	69.2	0.04	100
	70.8	0.02	52
	73.7	0.03	78
	74.9	0.06	160
	75.2	0.09	230
	75.3	0.08	210
	75.4	0.09	230
	75.8	0.21	550
	75.9	0.18	470
	76.1	0.23	600
	76.2	0.30	780
	77.1	0.37	960
	77.4	0.38	990
	77.8	0.45	1170
	78.9	0.44	1150
	85.4	0.72	1880
	85.4	0.75	1960
	87.2	0.65	1700
	89.3	0.65	1700
	89.3	0.73	1910
	97.4	0.80	2090
	97.4	0.95	2490
	100.8	0.84	2200
	109.0	1.13	2960
	119.3	1.15	3020
	119.3	1.22	3200
	125.3	1.12	2940
	139.2	1.27	3330
	139.2	1.35	3550
	139.2	1.31	3440
	147.2	1.43	3760
	147.2	1.38	3630



	156.1	1.42	3730
	165.7	1.41	3710
	165.7	1.49	3920
	176.3	1.57	4130
	176.3	1.80	4740
	200.3	2.04	5390
	214.0	1.93	5090
	228.8	2.04	5390
	228.8	2.07	5470
310.15	49.7	0.07	180
	49.7	0.06	160
	49.7	0.05	130
	54.7	0.03	80
	74.4	0.09	230
	75.3	0.10	260
	75.7	0.16	420
	75.9	0.26	680
	76.2	0.34	890
	78.9	0.60	1570
	82.5	0.70	1830
	85.4	0.90	2360
	89.3	0.95	2490
	109.0	1.30	3410
	104.7	1.23	3230
	104.7	1.20	3150
	119.3	1.57	4130
	156.1	1.98	5230
	176.3	1.98	5230
	187.8	2.38	6300

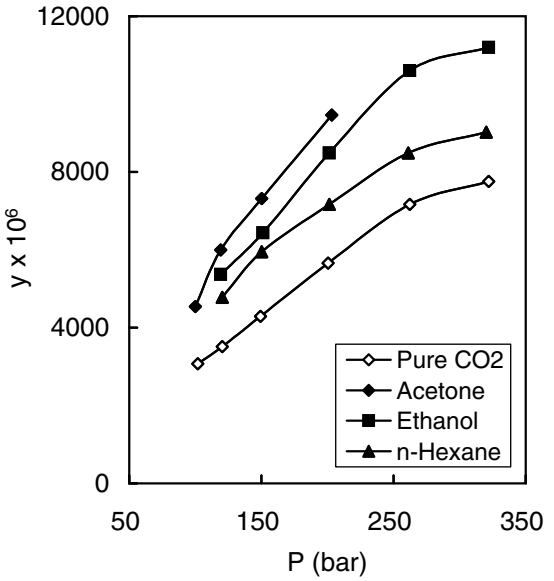
1: Calculated from temperature and density in the source table.
2: The data in italics were measured in a glass vial with a volume of approximately 1.5 cm^3.
3: Calculated from w.

Synonyms: *N*-Phenylaniline; *N*-Phenylbenzenamine

Source: Tsekhanskaya, Yu. V.; Iomtev, M. B.; Mushkina, E. V. *Z. Fiz. Khim.* (1962), 36, 2187-2193.

Diphenylamine ($C_{12}H_{11}N$; MW=169.22) **[D-88]**

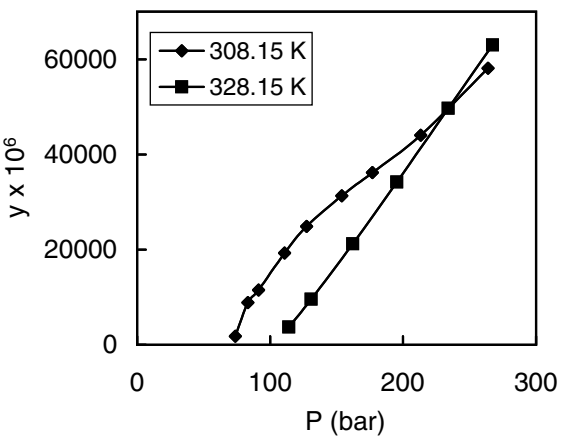
T (K)	P[1] (bar)	Cosolvent[2] (mol%)	y[1] x 10^6
308	102	0	3070
	120	0	3510
	149	0	4290
	200	0	5660
	262	0	7170
	322	0	7760
		Acetone	
	100	3.7	4540
	119	3.7	6000
	150	3.7	7320
	203	3.7	9460
		Ethanol	
	119	3.7	5370
	151	3.7	6440
	201	3.7	8490
	262	3.7	10600
	322	3.7	11200
		n-Hexane	
	120	3.7	4780
	150	3.7	5950
	201	3.7	7170
	261	3.7	8490
	320	3.7	9020



1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2 on a solute-free basis.
Synonyms: *N*-Phenylaniline; *N*-Phenylbenzenamine
Source: Zhang, J.; Zhu, M.; Yu, E.; Zhang, Z. *Chinese J. Chem. Eng.* (1993), 1(4), 239-246.

Diphenylmethane ($C_{13}H_{12}$; MW=168.23) **[D-89]**

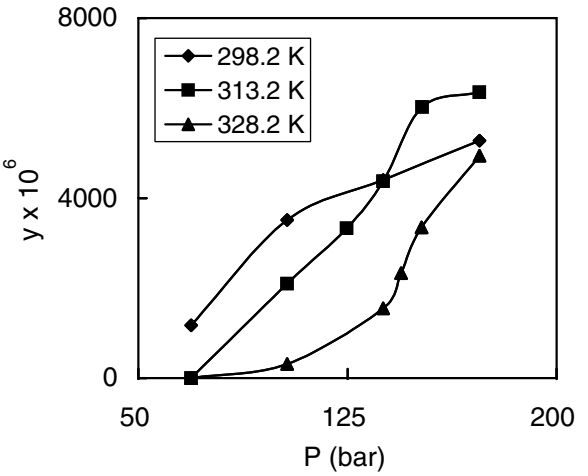
T (K)	P (bar)	y x 10^6
308.15	73.9	1800
	83.2	8900
	91.3	11500
	110.9	19300
	127.5	24900
	154.0	31300
	176.9	36200
	213.3	44000
	263.9	58100
328.15	114.1	3700
	130.8	9600
	162.2	21200
	195.4	34200
	234.0	49700
	267.4	63000



Synonym: Benzylbenzene
Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

Docosahexaenoic acid ethyl ester ($C_{24}H_{36}O_2$; MW = 356.54) **[D-90]**

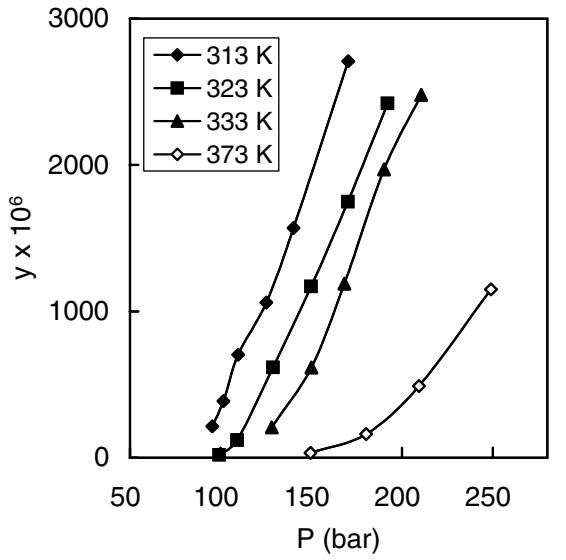
T (K)	P[1] (bar)	S[1] (g/L)	y[2] x 10^6
298.2	69	7.0	1170
	103	23.5	3510
	138	31.0	4400
	172	38.5	5280
313.2	69	0.0	0
	103	11.1	2100
	125	19.8	3330
	138	27.0	4370
	152	38.5	6020
	172	42.0	6350
328.2	69	0.0	0
	103	0.9	314
	138	7.6	1550
	144	12.0	2330
	152	18.0	3350
	172	28.5	4940



1: Obtained by digitizing the graph in the original article.
2: Calculated from S.
Synonyms: (all *Z*)-4,7,10,13,16,19-Docosa docosahexaenoate hexaenoic acid ethyl ester; Ethyl
Source: Liang, J. H.; Yeh, A. I. *J. Am. Oil Chem. Soc.* (1991), 68(9), 687-692.

Docosahexaenoic acid ethyl ester ($C_{24}H_{36}O_2$; MW = 356.54) **[D-91]**

T (K)	P[1] (bar)	y[1] x 10^6
313	95	214
	102	388
	110	703
	125	1060
	140	1570
	170	2710
323	99	20
	109	121
	129	616
	150	1170
	170	1750
	192	2420
333	128	208
	150	616
	168	1190
	190	1970
	211	2480



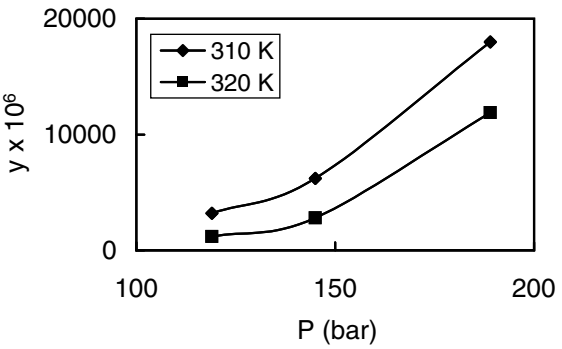
373	149	33
	180	161
	209	489
	249	1150

1: Obtained by digitizing the graph in the original article
Synonyms: (all *Z*)-4,7,10,13,16,19-Docosa hexaenoic acid ethyl ester; Ethyl docosahexaenoate
Source: Liong, K.; Foster, N.; Ting, S. *Ind. Eng. Chem. Res.* (1992), 31(1), 400-4.

Docosane ($C_{22}H_{46}$; MW=310.60) **[D-92]**

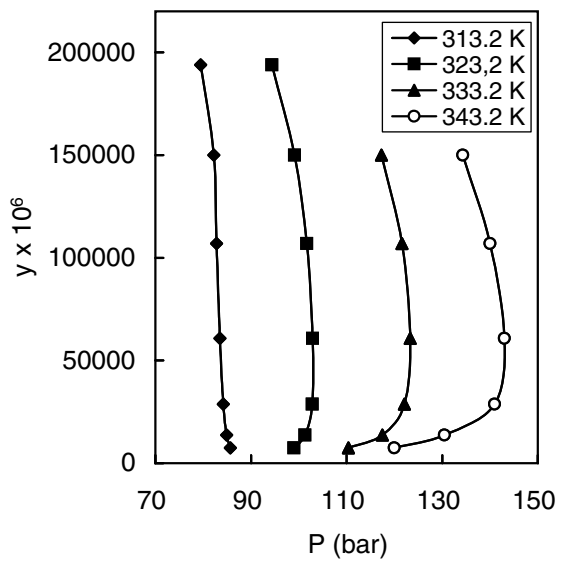
T (K)	P (bar)	y x 10^6
310	119.0	3200
	145.0	6200
	189.0	18000
320	119.0	1200
	145.0	2800
	189.0	11900

Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Dodecane ($C_{12}H_{26}$; MW=170.33) **[D-93]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
313.2	85.7	28000	7400
	84.9	51000	13700
	84.2	103000	28800
	83.5	200000	60700
	82.8	317000	107000
	82.2	405000	150000
	79.5	483000	194000
323.2	99.0	28000	7400
	101.3	51000	13700
	102.8	103000	28800
	102.9	200000	60700
	101.7	317000	107000
	99.1	405000	150000
	94.4	483000	194000
333.2	110.4	28000	7400
	117.5	51000	13700
	122.1	103000	28800
	123.3	200000	60700
	121.6	317000	107000
	117.3	405000	150000

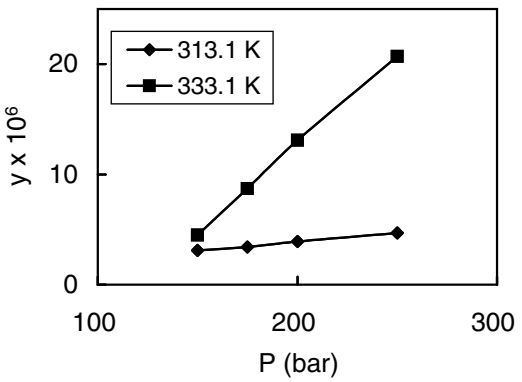


343.2	120.0	28000	7400
	130.5	51000	13700
	141.0	103000	28800
	143.0	200000	60700
	140.0	317000	107000
	134.3	405000	150000

1: Calculated from w.
Source: Nieuwoudt, I.; du Rand, M. *J. Supercrit. Fluids* (2002), 22(3), 185-199.

Dodecyl gallate ($C_{19}H_{30}O_5$; MW=338.44) **[D-94]**

T (K)	P (bar)	y x 10^6
313.1	150	3.1
	175	3.4
	200	3.9
	250	4.7
333.1	150	4.5
	175	8.7
	200	13.1
	250	20.7

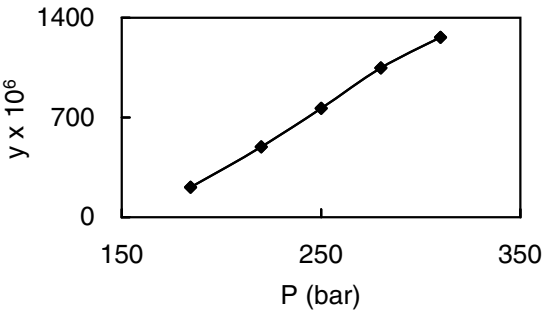


Synonyms: Dodecyl 3,4,5-trihydroxybenzoate; Gallic acid dodecyl ester
Source: Cortesi, A.; Kikic, I.; Alessi, P.; Turtoi, G.; Garnier, S. *J. Supercrit. Fluids* (1999), 14(2), 139-144.

Dotriacontane ($C_{32}H_{66}$; MW=450.87) **[D-95]**

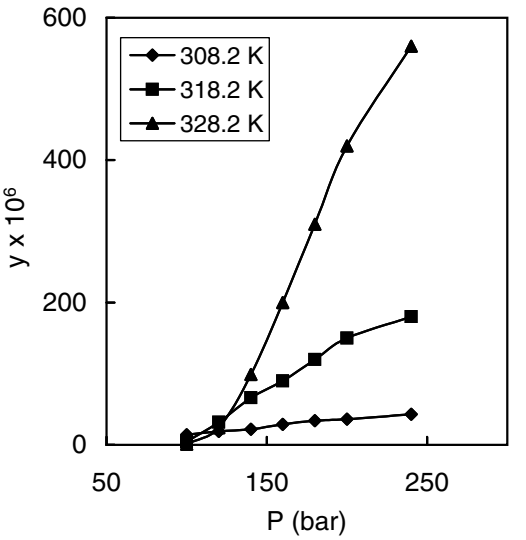
T (K)	P (bar)	S (g/L)	y[1] x 10^6
343	184.6	1.36	211
	220.0	3.53	493
	250.0	5.79	764
	280.0	8.30	1048
	310.0	10.35	1263

1: Calculated from S.
Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.



Dotriacontane ($C_{32}H_{66}$; MW=450.87) **[D-96]**

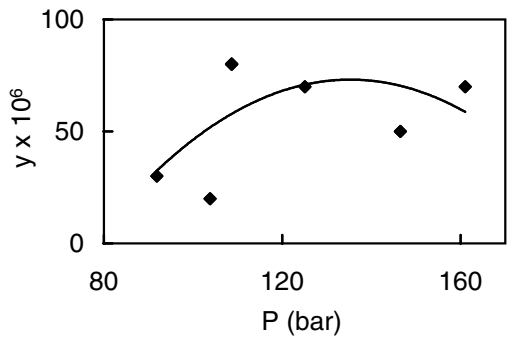
T (K)	P (bar)	y[1)] x 10^6
308.2	100	*14.0*
	120	19.0
	140	22.0
	160	29.0
	180	34.0
	200	36.0
	240	43.0
318.2	100	*4.4*
	120	32.0
	140	66.0
	160	90.0
	180	120.0
	200	150.0
	240	180.0
328.2	100	*0.8*
	120	*24.0*
	140	99.0
	160	200.0
	180	310.0
	200	420.0
	240	560.0



1: All the data at 100 bar and data at 328.2 K and 120 bar (in italics) are extrapolated values in the original article.
Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Dotriacontane ($C_{32}H_{66}$; MW=450.87) **[D-97]**

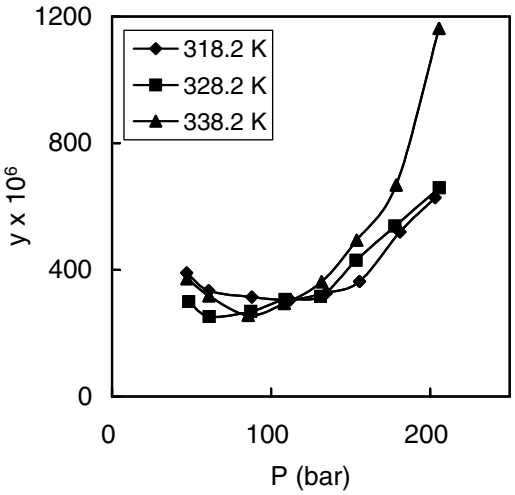
T (K)	P (bar)	y x 10^6
308.15	91.9	30
	103.8	20
	108.6	80
	108.7	80
	125.1	70
	146.5	50
	161.0	70



Source: King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in: Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp.31-80.

Dotriacontane ($C_{32}H_{66}$; MW=450.87) **[D-98]**

T (K)	P (bar)	y x 10^6
318.2	46.9	390
	60.8	334
	87.9	314
	112.0	305
	134.8	328
	155.5	363
	181.0	520
	203.1	628
328.2	48.3	300
	61.2	252
	87.4	269
	108.8	306
	131.2	316
	153.5	430
	177.9	538
	205.8	659
338.2	47.2	372
	61.0	318
	85.5	256
	108.2	294
	131.7	362
	153.8	494
	178.6	668
	205.5	1162

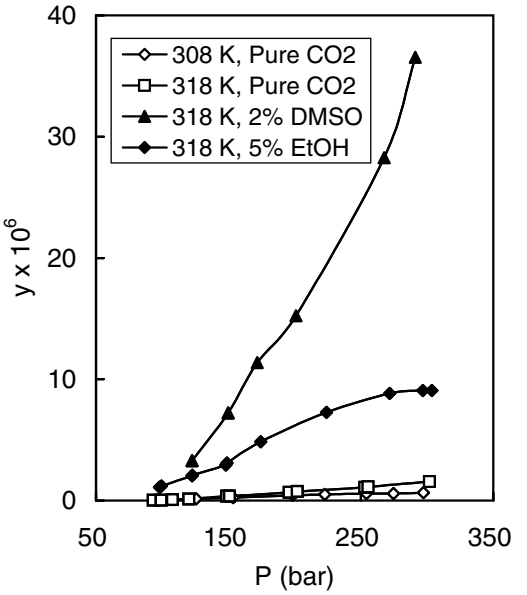


Source: Yau, J. S.; Tsai, F. N. *J. Chem. Eng. Data* (1993), 38(2), 171-174

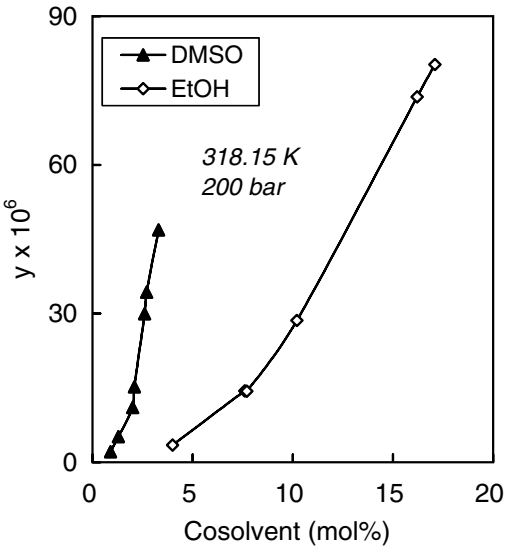
5 Solubility Data E

Eflucimibe ($C_{29}H_{43}NO_2S$; MW=469.72) **[E-1]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.15	98.6	0	0.07
	103.5	0	0.07
	125.6	0	0.14
	153.5	0	0.24
	198.5	0	0.42
	222.8	0	0.50
	254.1	0	0.56
	274.6	0	0.57
	297.3	0	0.64
318.15	93.3	0	0.01
	99.2	0	0.03
	107.9	0	0.08
	120.1	0	0.12
	148.6	0	0.35
	150.8	0	0.36
	195.9	0	0.68
	202.0	0	0.74
	253.0	0	1.08
	255.5	0	1.12
	301.9	0	1.57
		DMSO	
318.15	122.5	2.0	3.28
	149.7	2.0	7.23
	171.7	2.0	11.38
	201.0	2.0	15.23
	267.6	2.0	28.26
	291.1	2.0	36.54
318.15	200.0	0.9	2.10
	200.0	1.3	5.19
	200.0	2.0	11.07
	200.0	2.1	15.23
	200.0	2.6	29.98
	200.0	2.7	34.33
	200.0	3.3	46.90



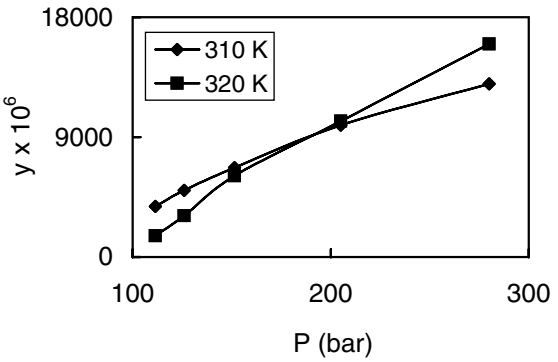
		Ethanol	
318.15	98.0	5.0	1.11
	99.5	5.0	1.20
	122.5	5.0	2.04
	122.7	5.0	2.09
	148.0	5.0	2.93
	149.0	5.0	3.10
	174.5	5.0	4.84
	224.0	5.0	7.28
	271.7	5.0	8.82
	296.9	5.0	9.08
	303.6	5.0	9.08
318.15	200.0	4.0	3.46
	200.0	7.6	14.42
	200.0	7.7	14.31
	200.0	10.2	28.59
	200.0	16.2	73.74
	200.0	17.1	80.27



Synonym: (*S*)-2-(Dodecylthio)-*N*-(4-hydroxy-2,3,5-trimethylphenyl)-2-phenylacetamide
Source: Sauceau, M.; Letourneau, J.-J.; Freiss, B.; Richon, D.; Fages, J. *J. Supercrit. Fluids* (2004), 31(2), 133-140.

Eicosane ($C_{20}H_{42}$; MW=282.55) **[E-2]**

T (K)	P (bar)	y x 10^6
310	111.5	3800
	126.0	5000
	151.5	6700
	205.0	9900
	280.0	13000
320	111.5	1600
	126.0	3100
	151.5	6100
	205.0	10200
	280.0	16000

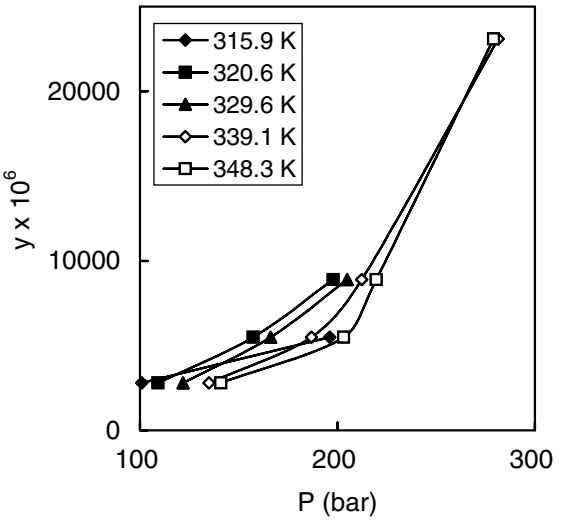


Source: *Schmitt,* W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Eicosane ($C_{20}H_{42}$; MW=282.55) **[E-3]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
315.9	100.9	18000	2800
	196.1	55000	5500
320.6	109.1	18000	2800
	157.4	34000	5500
	197.9	55000	8900
329.6	121.8	18000	2800
	166.2	34000	5500
	205.0	55000	8900
339.1	135.0	18000	2800
	186.8	34000	5500
	212.3	55000	8900
	281.4	132000	23100
348.3	140.9	18000	2800
	203.1	34000	5500
	219.7	55000	8900
	279.0	132000	23100

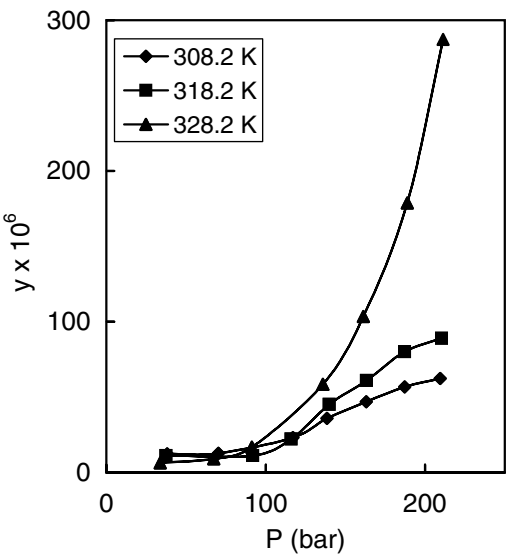
1: Calculated from w.



Source: Nieuwoudt, I.; du Rand, M. *J. Supercrit. Fluids* (2002), 22(3), 185-199.

Eicosanoic acid ($C_{20}H_{40}O_2$; MW=312.53) **[E-4]**

T (K)	P (bar)	y x 10^6
308.2	38.2	12.3
	70.3	12.7
	117.1	23.2
	138.5	35.9
	163.0	46.9
	187.1	56.8
	209.5	62.3
318.2	37.5	11.2
	91.9	11.2
	115.9	22.2
	139.9	45.2
	163.3	61.1
	187.1	80.2
	210.4	89.0
328.2	33.7	6.3
	67.3	9.0
	91.3	16.8
	135.9	58.4
	161.3	103.4
	188.8	178.7
	211.2	287.3

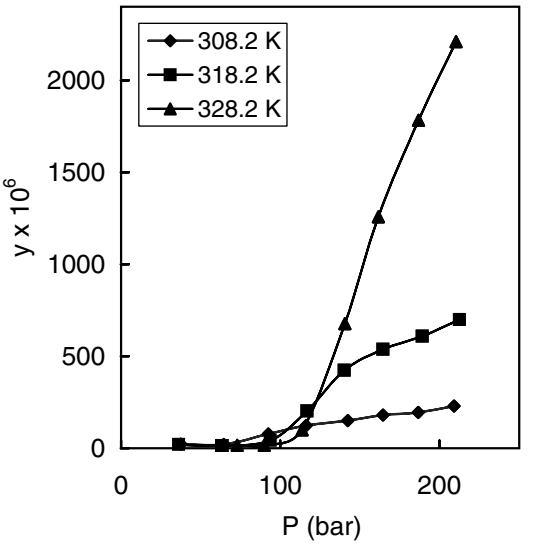


Synonym: Arachidic acid

Source: Yau, J.-S.; Tsai, F.-N. *J. Chem. Eng. Data* (1994), 39(4), 827-829.

1-Eicosanol ($C_{20}H_{42}O$; MW=298.55) **[E-5]**

T (K)	P[1] (bar)	y x 10^6
308.2	37.5	22
	64.6	21
	92.4	77
	116.3	124
	142.3	151
	164.4	181
	186.6	194
	209.0	230
318.2	36.2	20
	63.4	15
	93.7	42
	116.7	203
	140.2	424
	164.4	538
	189.2	608
	212.6	699
328.2	37.5	18
	73.0	15
	89.9	16
	113.7	100
	140.6	677
	161.6	1258
	186.8	1782
	210.4	2210



1: The obviously-mistyped pressure (412.3 bar at 308.2 K) in the source table was corrected to 142.3 bar.
Synonym: Arachidyl alcohol
Source: Yau, J.-S.; Tsai, F.-N. *J. Chem. Eng. Data* (1994), 39(4), 827-829.

Eicosapentaenoic acid ethyl ester ($C_{22}H_{34}O_2$; MW=330.50) **[E-6]**

T (K)	P[1] (bar)	S[1] (g/L)	y[2] x 10^6
298.2	69	15.4	2770
	103	46.5	7470
	138	58.5	8920
	172	63.7	9380
313.2	69	0.0	0
	103	15.4	3130
	125	26.5	4810
	138	31.6	5510
	152	42.2	7120
	172	47.5	7740

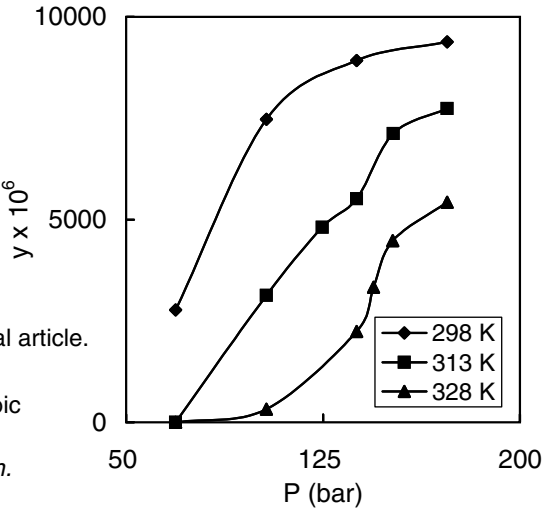
328.2	69	0.0	0
	103	0.9	320
	138	10.3	2240
	144	15.9	3330
	152	22.2	4480
	172	29.1	5430

1: Obtained by digitizing the graph in the original article.

2: Calculated from S.

Synonym: (all-*Z*)-5,8,11,14,17-Eicosapentaenoic acid ethyl ester; Ethyl eicosapentaenoate

Source: Liang, J. H.; Yeh, A. I. *J. Am. Oil Chem. Soc.* (1991), 68(9), 687-692.

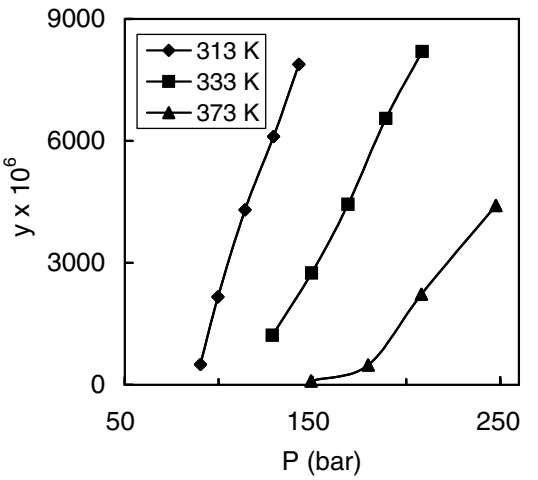


Eicosatrienoic acid ethyl ester ($C_{22}H_{38}O_2$; MW = 334.54) **[E-7]**

T (K)	P[1] (bar)	y[1] x 10^6
313	90	500
	100	2160
	114	4300
	129	6110
	143	7880
333	129	1220
	150	2750
	169	4440
	189	6550
	209	8200
373	149	90
	180	490
	208	2230
	248	4410

1: Obtained by digitizing the graph in the original article.

Source: Liong, K.; Foster, N.; Ting, S. *Ind. Eng. Chem. Res.* (1992), 31(1), 400-404.



Emodin ($C_{15}H_{10}O_5$; MW=270.24) **[E-8]**

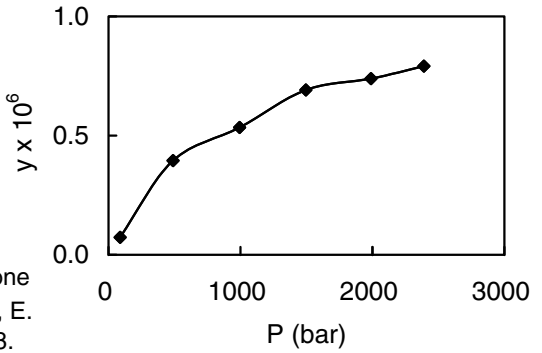
T (K)	P[1] (bar)	S[2] (μg/Nl[3])	y[4] x 10^6
313.2	89	0.89	0.073
	489	4.80	0.395
	994	6.49	0.535
	1495	8.39	0.691

1989	8.98	0.740
2389	9.60	0.791

1: Calculated from temperature and density obtained by digitizing the original graph.
2: Obtained by digitizing the graph in the original article.
3: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
4: Calculated from S.

Synonym: 1,3,8-Trihydroxy-6-methylanthraquinone

Source: Stahl, E.; Schilz, W.; Schutz, E.; Willing, E. *Angew. Chem. Int. Ed. Engl.* (1978), 17, 731-738.

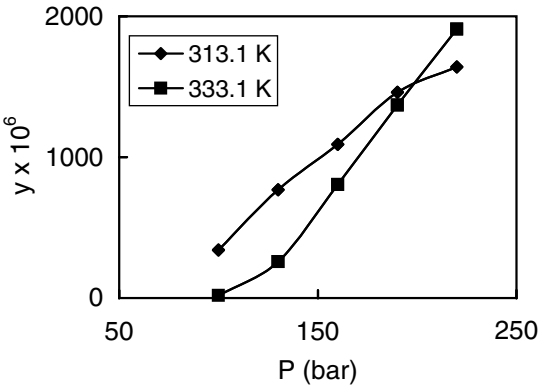


Endrin ($C_{12}H_8Cl_6O$; MW=380.91) **[E-9]**

T (K)	P (bar)	y x 10^6
313.1	100	340
	130	769
	160	1090
	190	1460
	220	1640
333.1	100	18
	130	259
	160	806
	190	1370
	220	1910

Synonym: 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene

Source: Macnaughton, S. J.; Kikic, I.; Rovedo, G.; Foster, N. R.; Alessi, P. *J. Chem. Eng. Data* (1995), 40(3), 593-597.

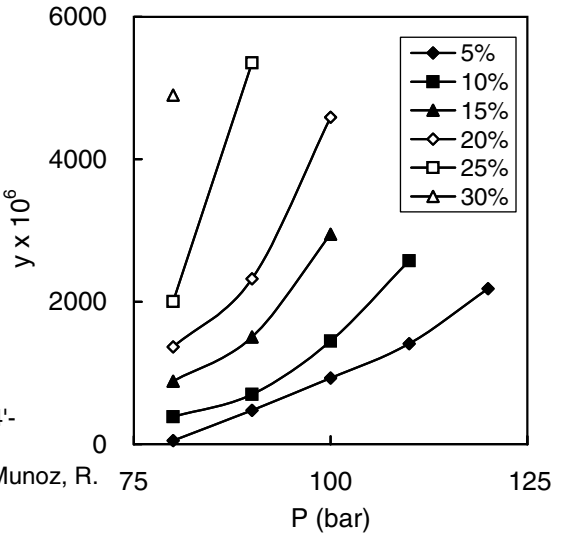


Epicatechin ($C_{15}H_{14}O_6$; MW=290.27) **[E-10]**

T (K)	P (bar)	Ethanol[1)] (wt%)	y x 10^6
313.2	80	5	51
	90	5	474
	100	5	926
	110	5	1410
	120	5	2182
313.2	80	10	386
	90	10	697

	100	10	1448
	110	10	2574
313.2	80	15	882
	90	15	1503
	100	15	2947
313.2	80	20	1367
	90	20	2323
	100	20	4589
313.2	80	25	2004
	90	25	5356
313.2	80	30	4902

1: Cosolvent in CO_2.

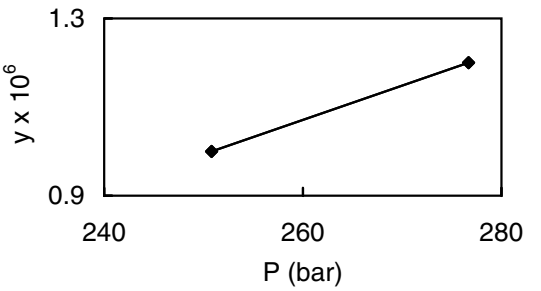


Synonyms: Epicatechol; (—)-(2*R*, 3R)-5,7,3',4'-Tetrahydroxyflavan-3-ol

Source: Chafer, A.; Berna, A.; Monton, J. B.; Munoz, R. *J. Supercrit. Fluids* (2002), 24(2), 103-109.

Ergosterol ($C_{28}H_{44}O$; MW=396.65) **[E-11]**

T (K)	P (bar)	y x 10^6
308.2	250.8	1.0
	276.7	1.2



Synonyms: (3β,22*E*)-Ergosta-5,7,22-trien-3-ol; 24-Methylcholesta-5,7,22-trien-3β-ol

Source: Wong, J. M.; Johnston, K. P. *Biotech. Prog.* (1986), 2(1), 29-39.

Ergosterol ($C_{28}H_{44}O$; MW=396.65) **[E-12]**

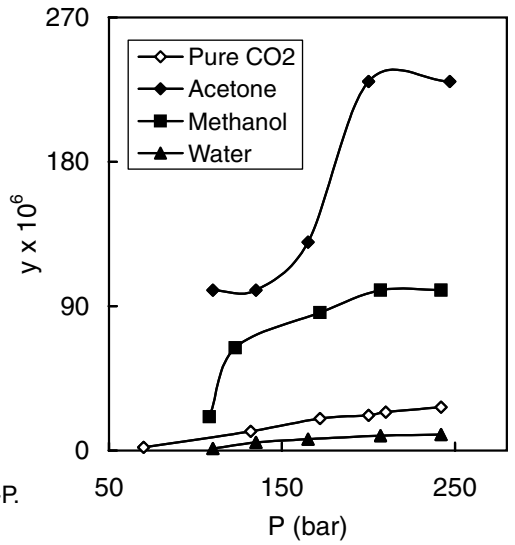
T (K)	P (bar)	Cosolvent (wt%)	y[1)] x 10^6
313.15	70	0.0	2
	132	0.0	12
	172	0.0	20
	200	0.0	22
	210	0.0	24
	242	0.0	27
		Acetone	
313.15	110	3.0	100
	135	3.0	100
	165	3.0	130
	200	3.0	230
	247	3.0	230
		Methanol	
313.15	108	3.0	21
	123	3.0	64

	172	3.0	86
	207	3.0	100
	242	3.0	100
		Water	
313.15	110	3.0	1.3
	135	3.0	5.0
	165	3.0	7.1
	207	3.0	9.3
	242	3.0	10.0

1: Obtained by digitizing the graph in the original article. Some data may not be accurate as the source graph is in a semi-log scale with a small span.

Synonyms: (3β,22*E*)-Ergosta-5,7,22-trien-3-ol; 24-Methylcholesta-5,7,22-trien-3β-ol

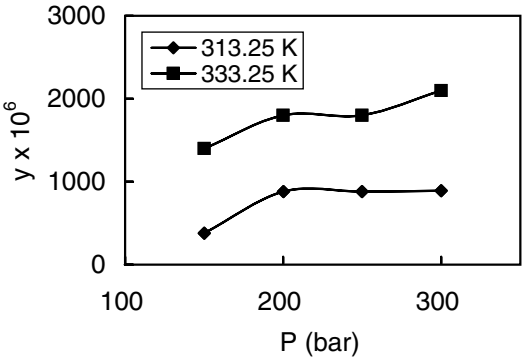
Source: Noh, M. J.; Kim, T. G.; Hong, I. K.; Yoo, K.-P. *Korean J. Chem. Eng.* (1995), 12(1), 48-55.



Erythromycin ($C_{37}H_{67}NO_{13}$; MW=733.93) **[E-13]**

T (K)	P (bar)	M x 10^4 (mol/L)	y x 10^6
313.15	150	66	380
313.25	200	170	880
313.35	250	170	880
313.15	300	180	890
333.15	150	190	1400
333.25	200	280	1800
333.25	250	320	1800
333.35	300	380	2100

Source: Burgos-Solorzano, G. I.; Brennecke, J. F.; Stadtherr, M. A. *Fluid Phase Equil* (2004), 220(1), 57-69.



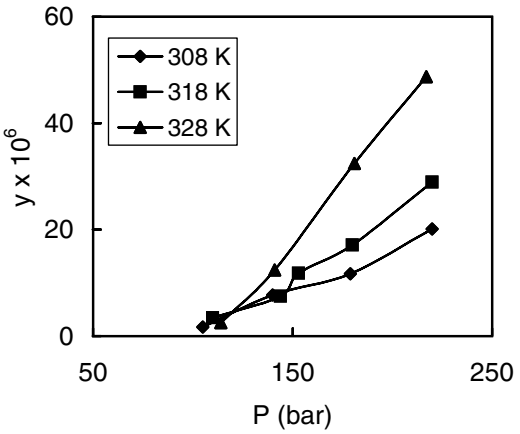
β-Estradiol ($C_{18}H_{24}O_2$; MW=272.38) **[E-14]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
308	105	10.5	1.7
	140	48.3	7.7
	179	73.2	11.7
	220	126.0	20.1
318	110	21.5	3.4
	144	47.0	7.5
	153	74.1	11.8
	180	107.0	17.1
	220	181.0	28.9
328	114	15.8	2.5
	141	77.8	12.4
	181	203.0	32.4
	217	305.0	48.7

1: Calculated from w.

Synonym: Estra-1,3,5(10)-triene-3,17-diol

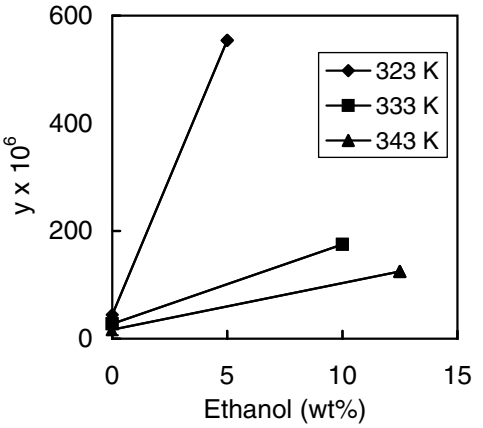
Source: Guney, O.; Akgerman, A. *J. Chem. Eng. Data* (2000), 45(6), 1049-1052.



β-Estradiol ($C_{18}H_{24}O_2$; MW=272.38) **[E-15]**

T (K)	P (bar)	Ethanol[1] (wt%)	w x 10^6	y[2] x 10^6
323	200	0	276	44.1
		5	3450	554.1
333	172	0	174	27.8
		10	1090	175.1
343	172	0	104	16.6
		13	777	124.9

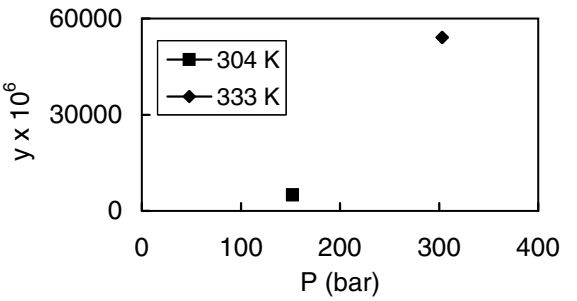
1: Cosolvent in CO_2.
2: Calculated from w.
Synonym: Estra-1,3,5(10)-triene-3,17-diol
Source: Guney, O.; Akgerman, A. *J. Chem. Eng. Data* (2000), 45(6), 1049-1052.



Ethyl centralite ($C_{17}H_{20}N_2O$; MW=268.35) **[E-16]**

T (K)	P (bar)	S (g/L)	y[1] x 10^6
304	152	25.65	4952
333	303	290.70	54060

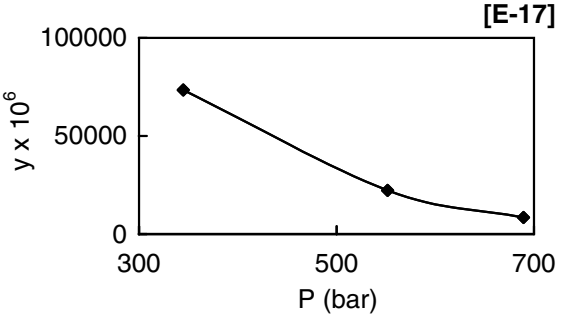
1: Calculated form S.
Synonym: *N*,*N*-Diethyl-*N*,*N*'-diphenylurea; *N*,*N*'-Diethylcarbanilide
Source: Ashraf-Khorassani, M.; Taylor, L. T. *J. Chem. Eng. Data* (1999), 44(6), 1254-1258.



Ethylene glycol ($C_2H_6O_2$; MW=62.07) **[E-17]**

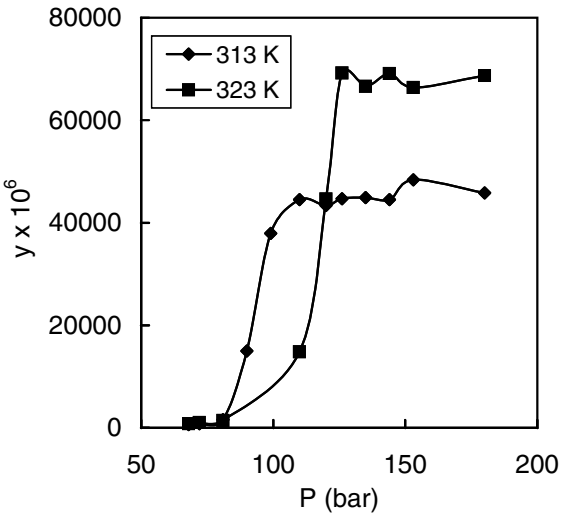
T (K)	P (bar)	y x 10^6
325.15	344.7	73380
	551.6	22270
	689.5	8460

Synonym: 1,2-Ethanediol
Source: Eissier, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.



2-Ethyl-1-hexanol ($C_8H_{18}O$; MW=130.23) **[E-18]**

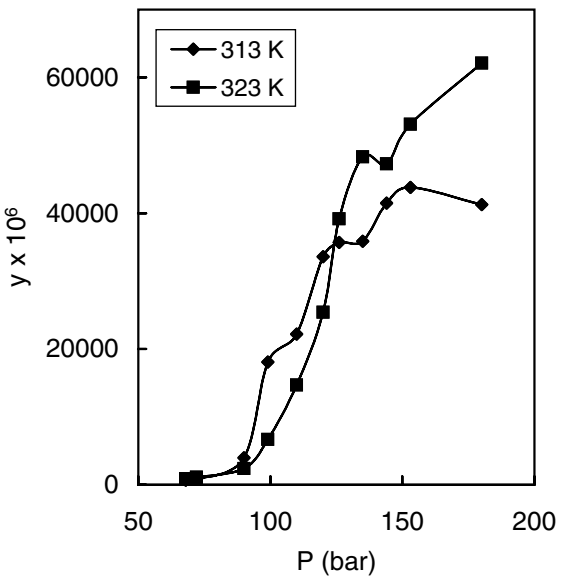
T (K)	P (bar)	y x 10^6
313	68	600
	72	800
	81	1600
	90	15000
	99	37900
	110	44500
	120	43400
	126	44700
	135	44900
	144	44500
	153	48400
	180	45800
323	68	800
	72	1000
	81	1400
	110	14800
	120	44600
	126	69200
	135	66600
	144	69100
	153	66400
	180	68700



Source: Ghaziaskar, H. S.; Eskandari, H.; Daneshfar, A. *J. Chem. Eng. Data* (2003), 48(2), 236-240.

2-Ethylhexanoic acid ($C_8H_{16}O_2$; MW=144.21) **[E-19]**

T (K)	P (bar)	y x 10^6
313	68	700
	72	800
	90	4000
	99	18100
	110	22200
	120	33600
	126	35700
	135	35900
	144	41500
	153	43800
	180	41300
323	68	900
	72	1100
	90	2400
	99	6700
	110	14700
	120	25400
	126	39200
	135	48300
	144	47300



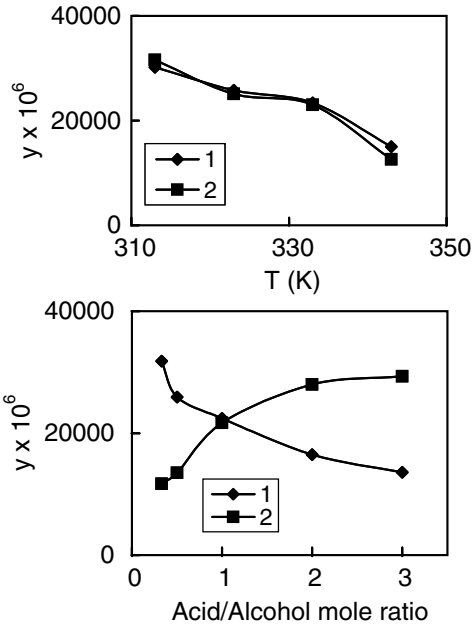
	153	53100
	180	62100

Synonym: α-Ethylcaproic acid
Source: Ghaziaskar, H. S.; Eskandari, H.; Daneshfar, A. *J. Chem. Eng. Data* (2003), 48(2), 236-240.

2-Ethyl-1-hexanol (1) + 2-Ethylhexanoic acid (2) Mixture[1)] **[E-20]**

P (bar)	T (K)	Acid/Alcohol mole ratio	$y_1 \times 10^6$	$y_2 \times 10^6$
138	313	1.00	30200	31600
	323	1.00	25800	25100
	333	1.00	23400	23000
	343	1.00	15000	12600
138	333	0.33	31800	11700
		0.50	25900	13500
		1.00	22400	21700
		2.00	16500	28000
		3.00	13600	29300

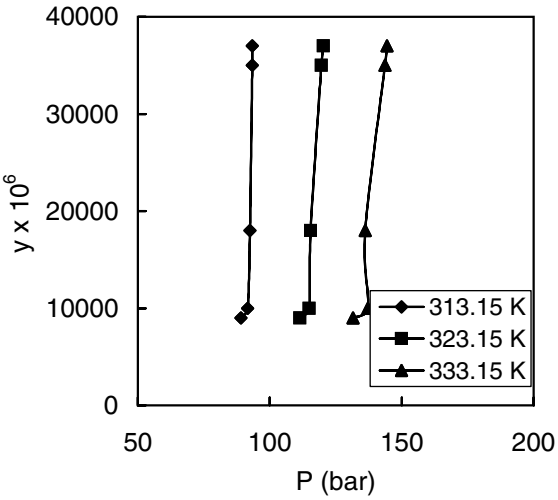
1: Solubility was measured from an equimolar mixture of 1 and 2.
Source: Ghaziaskar, H. S.; Eskandari, H.; Daneshfar, A. *J. Chem. Eng. Data* (2003), 48(2), 236-240.



Ethyl myristate ($C_{16}H_{32}O_2$; MW=256.42) **[E-21]**

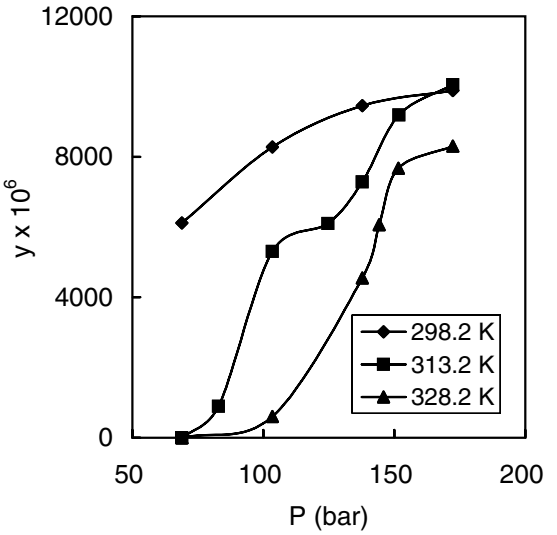
T (K)	P (bar)	y x 10^6
313.15	89.1	9000
	91.6	10000
	92.5	18000
	93.4	35000
	93.4	37000
323.15	111.4	9000
	114.9	10000
	115.5	18000
	119.6	35000
	120.3	37000
333.15	131.5	9000
	137.2	10000
	136.2	18000
	143.7	35000
	144.4	37000

Synonyms: Myristic acid ethyl ester; Tetradecanoic acid ethyl ester
Source: Crampon, C.; Charbit, G.; Neau, E. *J. Supercrit. Fluids* (1999), 16(1), 11-20.



Ethyl oleate ($C_{20}H_{38}O_2$; MW=310.51) **[E-22]**

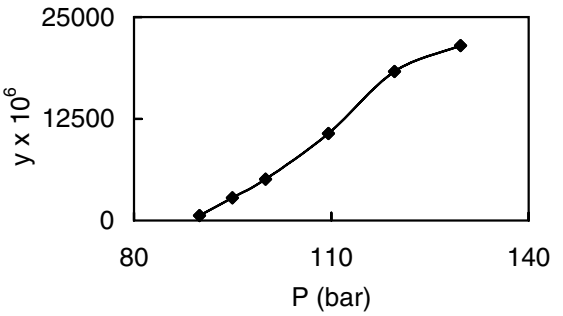
T (K)	P[1] (bar)	S[1] (g/L)	y[2] x 10^6
298.2	69	32.0	6113
	103	48.5	8283
	138	58.3	9458
	172	63.1	9888
313.2	69	0.0	0
	83	2.0	897
	103	24.5	5302
	125	31.6	6097
	138	39.3	7286
	152	51.3	9193
	172	58.1	10054
328.2	69	0.0	0
	103	1.5	601
	138	19.7	4552
	144	27.3	6068
	152	35.9	7670
	172	41.9	8308



1: Obtained by digitizing the graph in the original article.
2: Calculated from S.
Synonyms: (*Z*)-9-Octadecenoic acid ethyl ester; Oleic acid ethyl ester
Source: Liang, J. H.; Yeh, A. I. *J. Am. Oil Chem. Soc.* (1991), 68(9), 687-692.

Ethyl oleate ($C_{20}H_{38}O_2$; MW=310.51) **[E-23]**

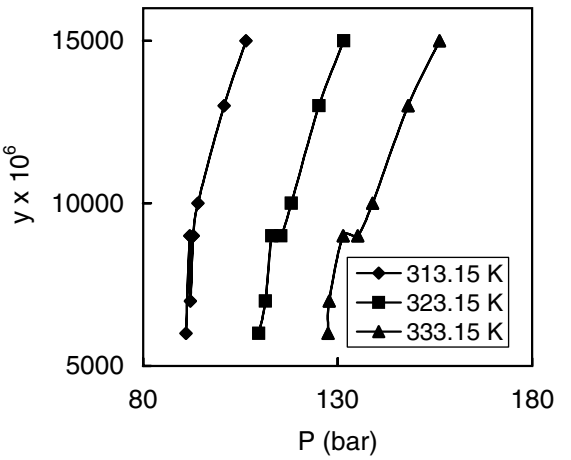
T (K)	P[1] (bar)	y[1] x 10^6
313	90	600
	95	2800
	100	5070
	110	10700
	120	18300
	130	21500



1: Obtained by digitizing the graph in the original article.
Synonyms: Oleic acid ethyl ester; (Z)-9-Octadecenoic acid ethyl ester
Source: Liong, K.; Foster. N.; Ting, S. *Ind. Eng. Chem. Res.* (1992), 31(1), 400-404.

Ethyl palmitate ($C_{18}H_{36}O_2$; MW=284.48) **[E-24]**

T (K)	P (bar)	y x 10^6
313.15	91.0	6000
	92.0	9000
	92.1	7000
	92.9	9000
	94.1	10000
	100.8	13000
	106.4	15000
323.15	109.7	6000
	111.4	7000
	113.1	9000
	115.4	9000
	118.1	10000
	125.2	13000
	131.6	15000
333.15	127.5	6000
	127.8	7000
	131.4	9000
	135.2	9000
	139.0	10000
	148.1	13000
	156.2	15000

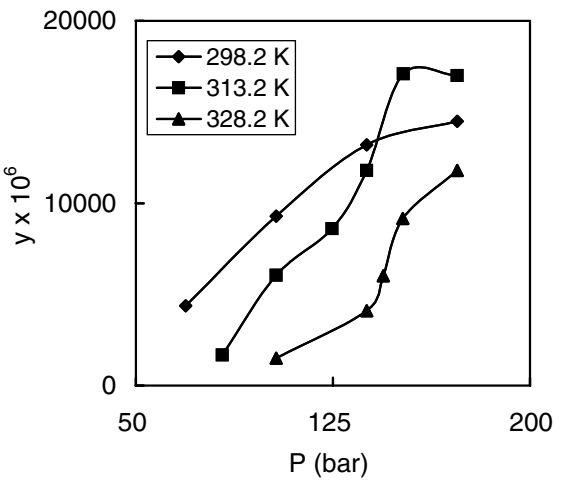


Synonyms: Ethyl hexadecanoate; Palmitic acid ethyl ester

Source: Crampon, C.; Charbit, G.; Neau, E. *J. Supercrit. Fluids* (1999), 16(1), 11-20.

Ethyl palmitate ($C_{18}H_{36}O_2$; MW=284.48) **[E-25]**

T (K)	P[1] (bar)	S[1] (g/L)	y[2] x 10^6
298.2	69	20.9	4370
	103	49.9	9290
	138	75.1	13200
	172	84.9	14500
313.2	83	3.4	1670
	103	25.6	6050
	125	41.0	8610
	138	58.5	11800
	152	88.0	17100
	172	90.6	17000
328.2	103	3.4	1500
	138	16.2	4110
	144	24.8	6010
	152	39.3	9160
	172	54.7	11800



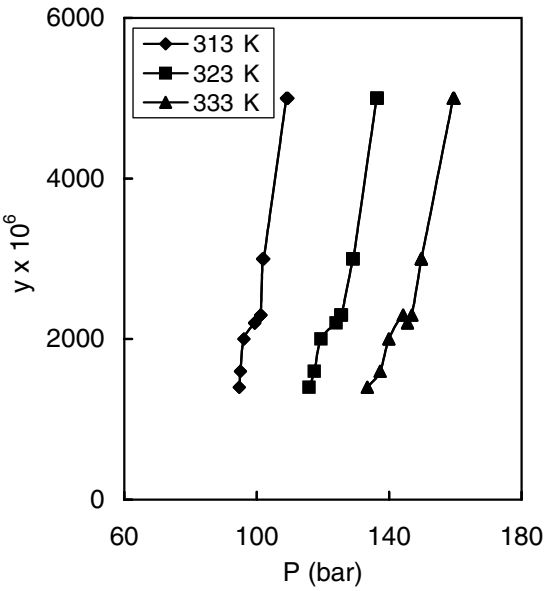
1: Obtained by digitizing the graph in the original article.
2: Calculated from S.

Synonyms: Ethyl hexadecanoate; Palmitic acid ethyl ester

Source: Liang, J. H.; Yeh, A. I. *J. Am. Oil Chem. Soc.* (1991), 68(9), 687-692.

Ethyl stearate ($C_{20}H_{40}O_2$; MW=312.53) **[E-26]**

T (K)	P (bar)	y x 10^6
313.15	94.7	1400
	95.1	1600
	96.1	2000
	99.4	2200
	99.4	2200
	101.2	2300
	101.2	2300
	101.8	3000
	102.1	3000
	109.0	5000
	109.4	5000
323.15	115.8	1400
	117.4	1600
	119.4	2000
	124.0	2200
	125.4	2300
	125.7	2300
	129.0	3000
	129.2	3000
	136.2	5000
	136.5	5000
333.15	133.4	1400
	137.3	1600
	139.9	2000
	144.2	2300
	145.5	2200
	146.9	2300
	149.7	3000
	149.8	3000
	159.3	5000
	159.6	5000

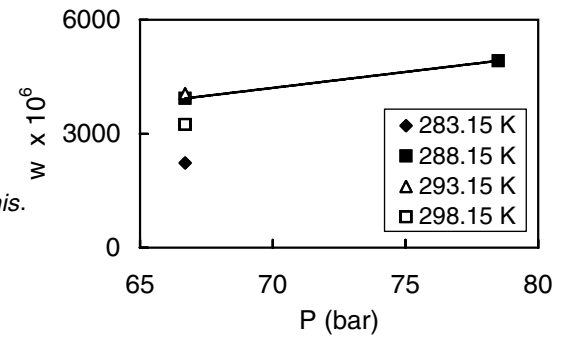


Synonyms: Ethyl octadecanoate; Stearic acid ethyl ester
Source: Crampon, C.; Charbit, G.; Neau, E.
J. Supercrit. Fluids (1999), 16(1), 11-20.

Eucalyptus[1)] leaves extract **[E-27]**

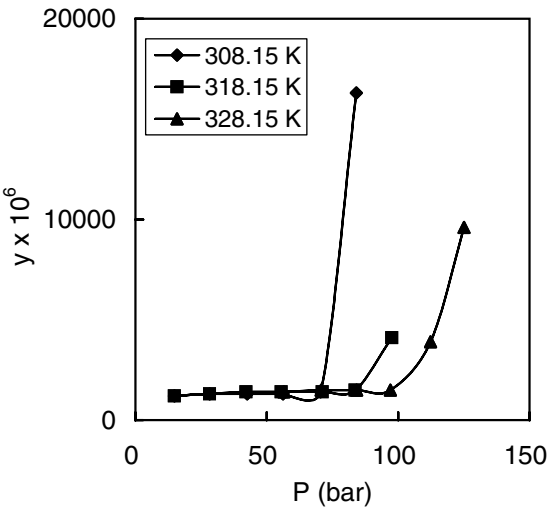
T (K)	P (bar)	W (g/kg)	w[2)] x 10^6
283.15	66.7	2.03	2230
288.15	66.7	3.95	3930
	78.5	4.94	4920
293.15	66.7	4.07	4050
298.15	66.7	3.25	3240

1: The botanical name is *Eucalyptus tereticornis*.
2: Calculated from W.
Source: Rodrigues, V. M.; Sousa E. M. B. D.; Monteiro, A. R.; Chiavone-Filho, O.; Marques, M. O. M.; Meireles, M. A. A.
J. Supercrit. Fluids (2002), 22(1), 21-36.



Eugenol ($C_{10}H_{12}O_2$; MW=164.20) **[E-28]**

T (K)	P (bar)	y x 10^6
308.15	14.8	1200
	28.3	1300
	42.5	1300
	56.2	1300
	70.5	1400
	84.1	16300
318.15	14.8	1200
	28.3	1300
	42.1	1400
	55.5	1400
	71.1	1400
	83.6	1500
	97.6	4100
328.15	56.5	1400
	70.7	1500
	84.2	1500
	97.1	1500
	112.4	3900
	125.1	9600

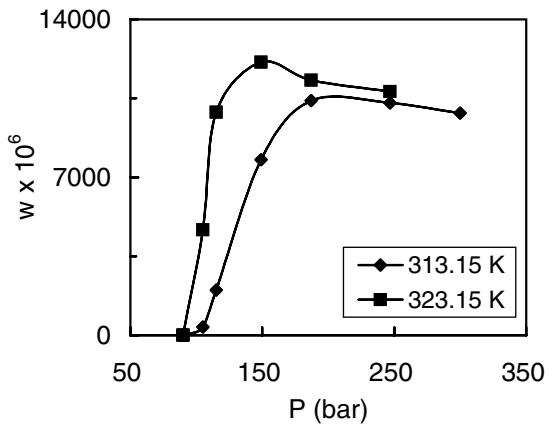


Synonyms: 2-Methoxy-4-(2-propenyl)phenol; 4-Allyl-2-methoxyphenol

Source: Cheng, K.-W.; Kuo, S.-J.; Tang, M.; Chen, Y.-P. *J. Supercrit. Fluids* (2000), 18(2), 87-99.

Ewe's milk fat **[E-29]**

T (K)	P[1] (bar)	S[1] (g/L)	w[2] x 10^6
313.15	90	0.00	0
	105	0.24	360
	115	1.41	2000
	149	6.12	7780
	187	8.70	10400
	247	9.10	10300
	300	9.06	9840
323.15	90	0.00	0
	105	2.12	4670
	115	5.53	9880
	149	8.59	12100
	187	8.82	11300
	247	9.10	10800
	300	9.30	10600



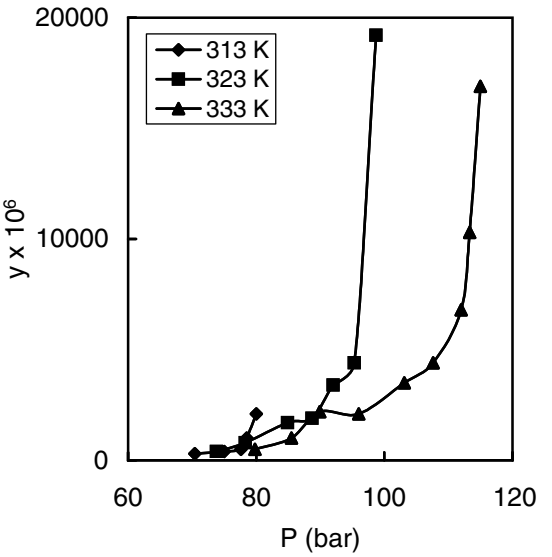
1: Obtained by digitizing the graph in the original article.
2: Calculated from S.

Source: Gonzalez Hierro, M. T.; Ruiz-Sala, P.; Alonso, L.; Santa-Maria, G. *Z. Lebensm. Unters. Forsch.* (1995), 200(4), 297-300.

6 Solubility Data F

Fenchone ($C_{10}H_{16}O$; MW=152.23) **[F-1]**

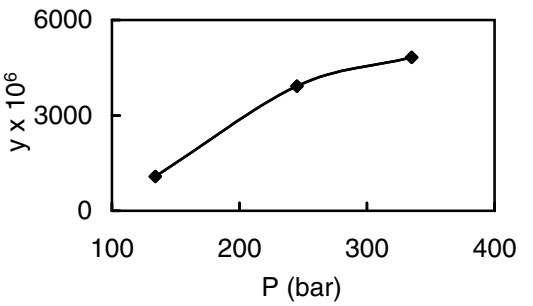
T (K)	P (bar)	y x 10^6
313	70.4	300
	75.0	400
	77.6	500
	78.5	1000
	80.0	2100
323	73.8	400
	78.3	800
	84.9	1700
	88.7	1900
	92.0	3400
	95.3	4400
	98.7	19200
333	79.8	500
	85.5	1000
	89.9	2200
	96.0	2100
	103.1	3500
	107.6	4400
	112.0	6800
	113.3	10300
	115.0	16900



Synonyms: 1,3,3-Trimethyl-2-norbornanone; 1,3,3-Trimethylnorcamphor
Source: Akgun, M.; Akgun, N. A.; Dincer, S. *J. Supercrit. Fluids* (1999), 15, 117-125.

Ferrocene ($C_{10}H_{10}Fe$; FW=186.03) **[F-2]**

T (K)	P (bar)	y x 10^6
333	134	1080
	245	3920
	335	4830

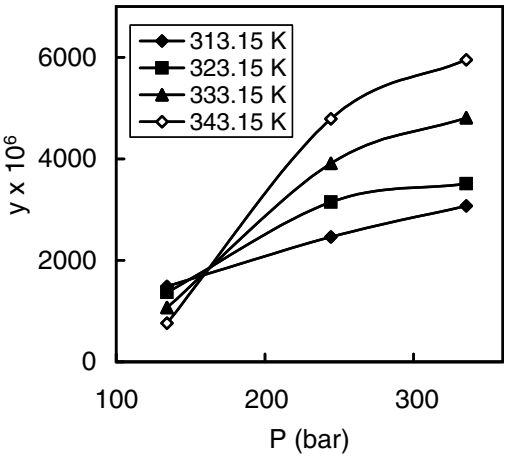


Synonyms: Bis(η^5-cyclopentadienyl) iron; Iron bis(cyclopentadienide)
Source: Burford, M. D.; Clifford, A. A.; Bartle, K. D.; Cowey, C. M.; Smart, N. G. *J. Chromatogr. A* (1996), 738(2), 241-252.

Ferrocene ($C_{10}H_{10}Fe$; FW=186.03) **[F-3]**

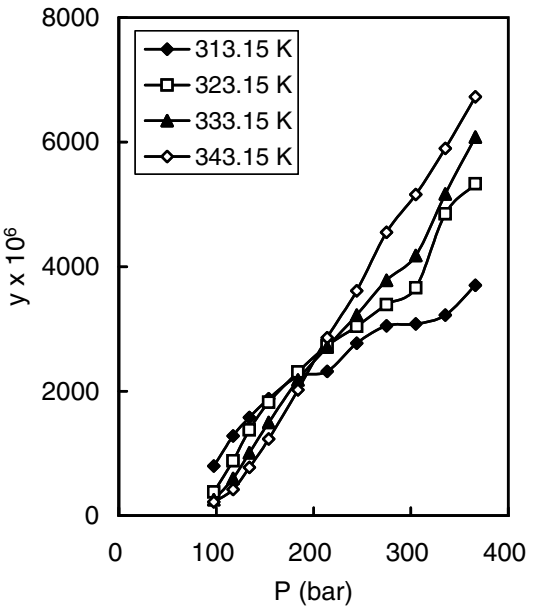
T (K)	P (bar)	S[1)] (g/L)	y[2)] x 10^6
313.15	134.1	4.77	1490
	244.4	9.13	2460
	335.5	12.10	3070
323.15	134.1	3.80	1370
	244.4	11.10	3150
	335.5	13.30	3510
333.15	134.1	2.42	1070
	244.4	13.00	3910
	335.5	17.50	4810
343.15	134.1	1.38	761
	244.4	14.90	4790
	335.5	20.70	5950

1: The solubility was directly measured by SFE.
2: Calculated from S.
Synonyms: Bis(η^5-cyclopentadienyl)iron; Iron bis(cyclopentadienide)
Source: Cowey, C. M.; Bartle, K. D.; Burford, M. D.; Clifford, A. A.; Zhu, S.; Smart, N. G.; Tinker, N. D. *J. Chem. Eng. Data* (1995), 40(6), 1217-1221.



Ferrocene ($C_{10}H_{10}Fe$; FW=186.03) **[F-4]**

T (K)	P (bar)	S[1)] (g/L)	y[2)] x 10^6
313.15	97.5	2.070	799
	117.3	3.860	1280
	134.1	5.040	1580
	153.9	6.290	1880
	183.9	7.820	2240
	214.1	8.389	2320
	244.4	10.300	2770
	274.9	11.600	3050
	305.0	13.100	3079
	335.5	12.700	3220
	366.3	14.800	3700
323.15	97.5	0.582	381
	117.3	2.130	881
	134.1	3.840	1380
	153.9	5.470	1820
	183.9	7.500	2310
	214.1	9.270	2730
	244.4	10.700	3040
	274.9	12.300	3390
	305.0	13.600	3660
	335.5	18.400	4850
	366.3	20.600	5330
333.15	97.5	0.301	256
	117.3	1.060	599
	134.1	2.290	1010

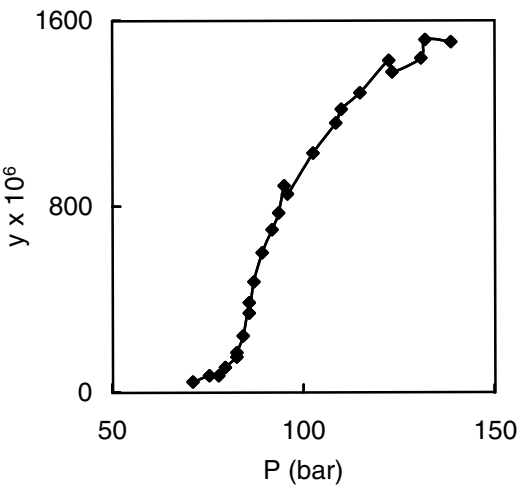


	153.9	3.950	1500
	183.9	6.450	2180
	214.1	8.580	2710
	244.4	10.700	3220
	274.9	13.000	3780
	305.0	14.800	4180
	335.5	18.800	5170
	366.3	22.600	6080
343.15	97.5	0.222	220
	117.3	0.594	421
	134.1	1.410	778
	153.9	2.750	1230
	183.9	5.360	2020
	214.1	8.340	2860
	244.4	11.200	3610
	274.9	14.800	4550
	305.0	17.400	5160
	335.5	20.500	5900
	366.3	24.000	6730

1: The solubility was measured by supercritical fluid chromatography.
2: Calculated from S.
Synonyms: Bis(η^5-cyclopentadienyl)iron; Iron bis(cyclopentadienide)
Source: Cowey, C. M.; Bartle, K. D.; Burford, M. D.; Clifford, A. A.; Zhu, S.; Smart, N. G.; Tinker, N. D. *J. Chem. Eng. Data* (1995), 40(6), 1217-1221.

Ferrocene ($C_{10}H_{10}Fe$; FW=186.03) **[F-5]**

T (K)	P[1)] (bar)	y[1)] x 10^6
313.15	71	45
	75	72
	78	72
	80	108
	83	153
	83	171
	84	243
	86	387
	86	342
	87	476
	89	602
	92	701
	93	773
	95	890
	96	854
	103	1030
	108	1160
	110	1220
	115	1290

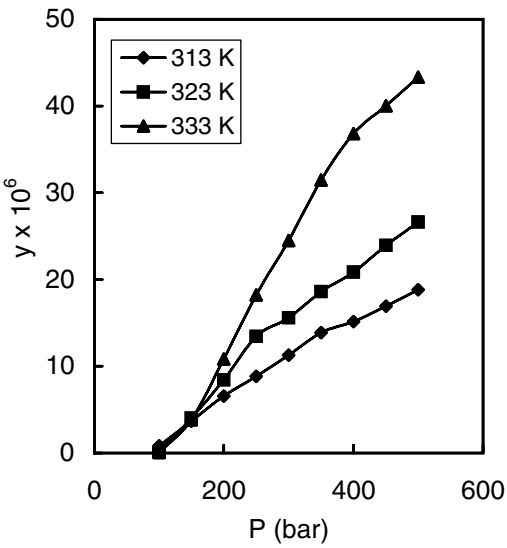


	122	1430
	123	1380
	131	1440
	132	1520
	138	1510

1: Obtained by digitizing the graph in the original article.
Synonyms: Bis(η^5-cyclopentadienyl)iron; Iron bis(cyclopentadienide)
Source: Hansen, B. N.; Lagalante, A. F.; Sievers, R. E.; Bruno, T. J. *Rev. Sci. Instr.* (1994), 65(6), 2112-2114.

Ferulic acid ($C_{10}H_{10}O_4$; MW=194.19) **[F-6]**

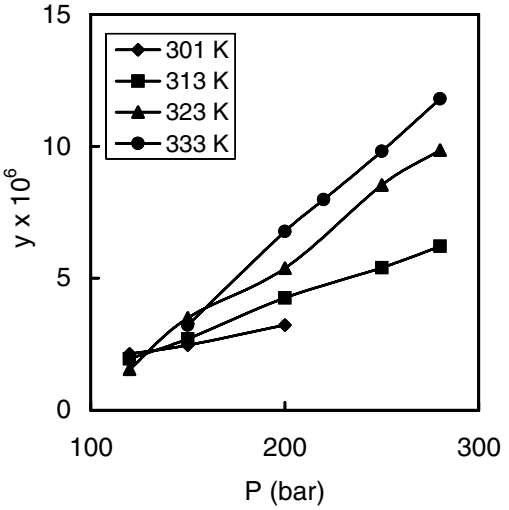
T (K)	P (bar)	y x 10^6
313	100	0.82
	150	3.67
	200	6.55
	250	8.83
	300	11.28
	350	13.88
	400	15.13
	450	16.93
	500	18.81
323	100	0.11
	150	4.03
	200	8.44
	250	13.43
	300	15.60
	350	18.60
	400	20.84
	450	23.92
	500	26.61
333	100	0.07
	150	3.83
	200	10.85
	250	18.23
	300	24.48
	350	31.47
	400	36.83
	450	40.01
	500	43.33



Synonyms: 3-(4-Hydroxy-3-methoxyphenyl)acrylic acid; 4-Hydroxy-3-methoxycinnamic acid
Source: Murga, R.; Sanz, M. T.; Beltran, S.; Cabezas, J. L. *J. Supercrit. Fluids* (2003), 27(3), 239-245.

Ferulic acid ($C_{10}H_{10}O_4$; MW=194.19) **[F-7]**

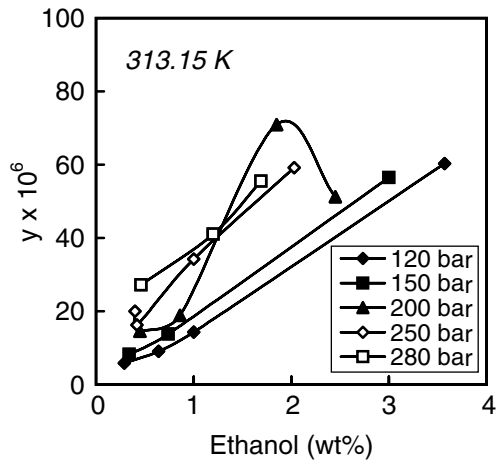
T (K)	P (bar)	w x 10^5	y x 10^6
301.15	120	0.94	2.13
	150	1.09	2.47
	200	1.42	3.22
313.15	120	0.86	1.95
	150	1.19	2.70
	200	1.88	4.25
	250	2.38	5.40
	280	2.74	6.21
323.15	120	0.68	1.55
	150	1.54	3.49
	200	2.37	5.38
	250	3.77	8.53
	280	4.35	9.85
333.15	150	1.42	3.22
	200	2.99	6.77
	220	3.52	7.98
	250	4.33	9.81
	280	5.22	11.80



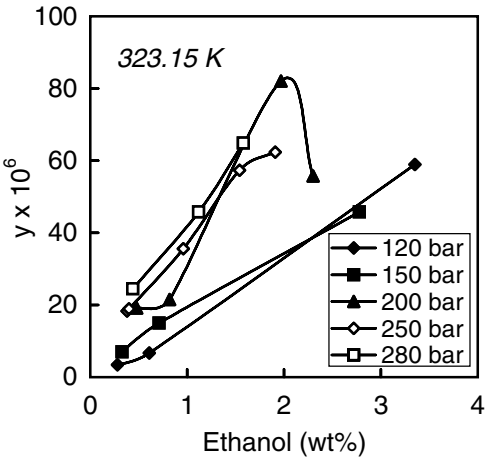
Synonyms: 3-(4-Hydroxy-3-methoxyphenyl)acrylic acid; 4-Hydroxy-3-methoxycinnamic acid
Source: Sovova, H. *J. Chem. Eng. Data* (2001), 46(5), 1255-1257.

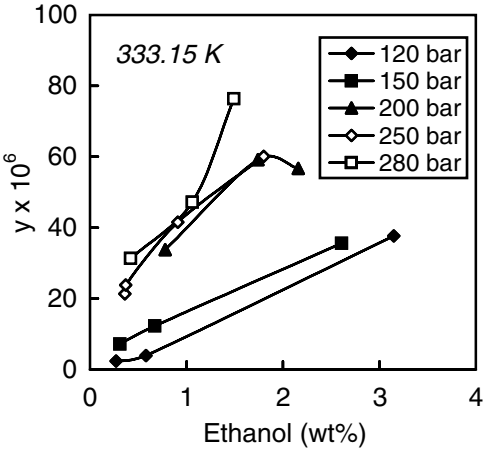
Ferulic acid ($C_{10}H_{10}O_4$; MW=194.19) **[F-8]**

T (K)	P (bar)	Ethanol[1] (wt%)	w x 10^5	$y^{2)}$ x 10^6
313.15	120	0.29	2.58	5.85
		0.64	4.01	9.09
		1.00	6.32	14.32
		3.57	26.60	60.30
	150	0.34	3.65	8.27
		0.74	6.07	13.76
		3.00	24.90	56.44
	200	0.45	6.41	14.53
		0.86	8.32	18.86
		1.85	31.30	70.95
		2.45	22.60	51.23
	250	0.40	8.82	19.99
		0.42	7.17	16.25
		1.00	15.10	34.23
		2.03	26.10	59.16
	280	0.46	12.00	27.20
		1.20	18.10	41.03
		1.69	24.50	55.54



323.15	120	0.28	1.51	3.42
		0.61	2.95	6.69
		3.35	26.00	58.94
	150	0.33	3.08	6.98
		0.71	6.62	15.00
		2.78	20.20	45.79
	200	0.48	8.46	19.17
		0.82	9.50	21.53
		1.97	36.20	82.06
		2.30	24.60	55.76
	250	0.38	8.08	18.31
		0.40	8.34	18.90
		0.96	15.70	35.59
		1.54	25.30	57.35
		1.91	27.50	62.34
	280	0.44	10.80	24.48
		1.12	20.20	45.79
		1.58	28.60	64.83
333.15	120	0.27	1.01	2.29
		0.58	1.70	3.85
		3.15	16.60	37.63
	150	0.31	3.14	7.12
		0.67	5.39	12.22
		2.61	15.70	35.59
	200	0.78	14.90	33.77
		1.74	26.10	59.16
		2.16	25.00	56.67
	250	0.36	9.41	21.33
		0.37	10.50	23.80
		0.91	18.30	41.48
		1.80	26.50	60.07
	280	0.42	13.80	31.28
		1.06	20.80	47.15
		1.49	33.70	76.40

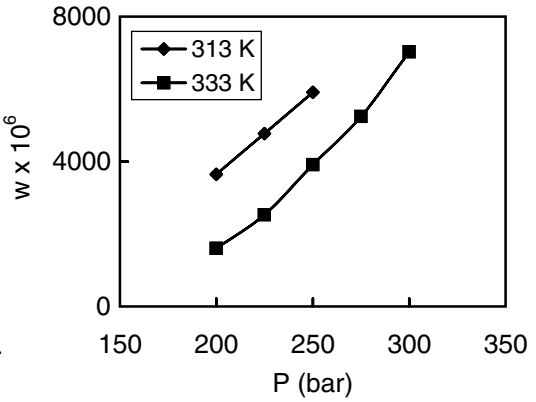




1: Cosolvent in CO_2.
2: Calculated from w on a cosolvent-free basis.
Synonyms: 3-(4-Hydroxy-3-methoxyphenyl)acrylic acid; 4-Hydroxy-3-methoxycinnamic acid
Source: Sovova, H. *J. Chem. Eng. Data* (2001), 46(5), 1255-1257.

Fish liver oil (Cod)[1)] **[F-9]**

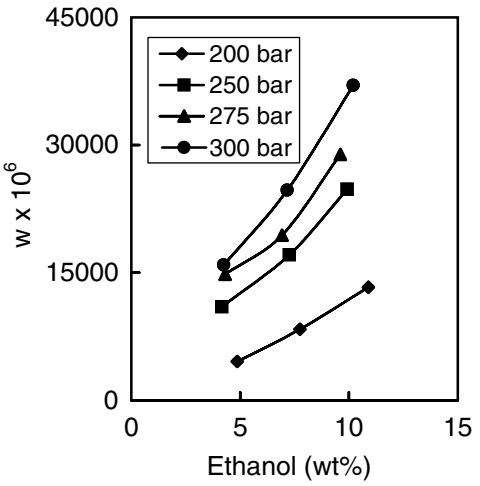
T (K)	P (bar)	W (g/kg CO_2)	$w^{2)} \times 10^6$
313	200	3.66	3650
	225	4.79	4770
	250	5.94	5910
333	200	1.60	1600
	225	2.54	2530
	250	3.92	3910
	275	5.27	5240
	300	7.08	7030



1: The scientific name of cod is *Gadus callarias*.
2: Calculated from W.
Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.

Fish liver oil (Cod)[1)] **[F-10]**

T (K)	P (bar)	Ethanol[2)] (wt%)	W (g/kg CO_2)	$w^{3)} \times 10^6$
333	200	4.86	4.81	4570
	200	7.75	9.07	8350
	200	10.89	14.91	13300
333	250	4.16	11.58	11000
	250	7.27	18.65	17100
	250	9.92	27.95	24800
333	275	4.31	15.70	14800
	275	6.92	21.15	19400
	275	9.61	32.60	28900
333	300	4.25	16.81	15900
	300	7.17	27.12	24700
	300	10.20	42.35	37000

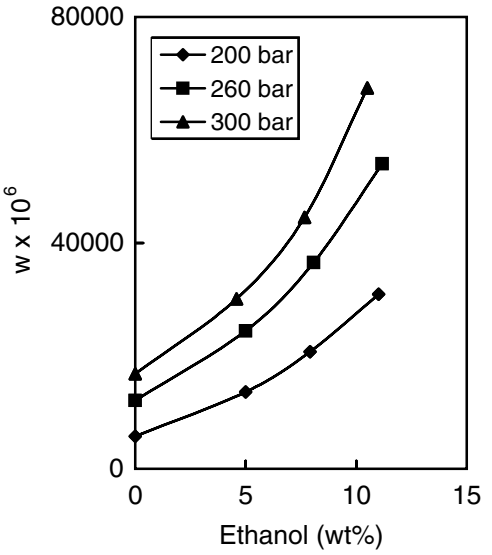


1: The scientific name of cod is *Gadus callarias*.
2: Cosolvent in CO_2 on a solute-free basis.
3: Calculated from W and the amount of cosolvent.
Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.

Fish liver oil (Orange Roughy fish)[1)] **[F-11]**

T (K)	P (bar)	Ethanol[2)] (wt%)	W (g/kg CO_2)	$w^{3)} \times 10^6$
333	200	0.00	5.79	5760
		4.99	14.43	13600
		7.91	22.79	20700
		11.01	35.36	30900
333	260	0.00	12.24	12100
		5.00	26.23	24400
		8.07	40.90	36500
		11.17	63.41	54000
333	300	0.00	17.10	16800
		4.58	32.44	30100
		7.66	50.17	44500
		10.50	79.91	67400

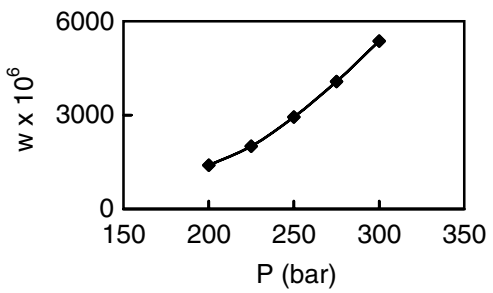
1: The scientific name of this fish is *Hoplostethus atlanticus*.
2: Cosolvent in CO_2 on a solute-free basis.
3: Calculated from W and the amount of cosolvent.
Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095

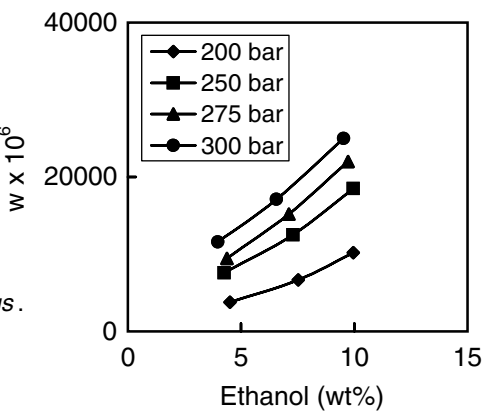


Fish liver oil (Spiny Dogfish)[1)] **[F-12]**

T (K)	P (bar)	Ethanol[2)] (wt%)	W (g/kg CO_2)	$w^{3)} \times 10^6$
333	200	0	1.40	1400
	225	0	2.02	2010
	250	0	2.95	2940
	275	0	4.09	4070
	300	0	5.40	5370
333	200	4.51	3.97	3780
		7.53	7.21	6660
		9.95	11.30	10200
	250	4.26	7.99	7600
		7.29	13.53	12500
		9.95	20.69	18500
	275	4.37	9.97	9460
		7.11	16.58	15200
		9.72	24.68	22000
	300	3.98	12.25	11600
		6.56	18.58	17100
		9.53	28.05	25000

1: The scientific name of this fish is *Squalus acanthius*.
2: Cosolvent in CO_2 on a solute-free basis.
3: Calculated from W and the amount of cosolvent.
Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.





Fish liver oil (Spiny Dogfish + Deep Sea Shark) **[F-13]**

T (K)	P[1)] (bar)	Ethanol[2)] (wt%)	W[1,3)] (g/kg CO_2)	w[4)] x 10^6
		Spiny Dogfish		
333	250	0	3.0	3000
		4	8.3	7920
		7	13.8	12700
		10	21.0	18700
		Deep Sea Shark		
333	250	0	16.7	16400
		4	28.5	26700
		8	42.3	37700
		11	55.9	47900

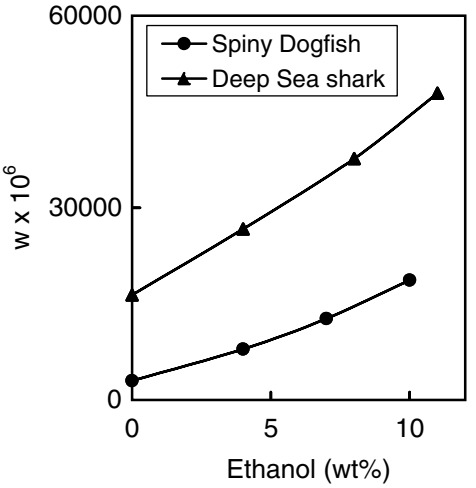
1: Obtained by digitizing the graph in the original article.

2: Cosolvent on a solute-free basis.

3: Mass solubility in CO_2 (cosolvent-free basis).

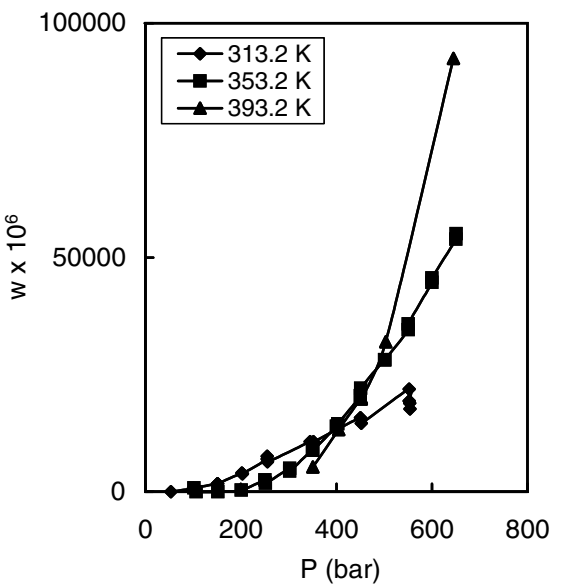
4: Calculated from W and the amount of cosolvent.

Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Supercrit. Fluids* (2000), 19(1), 25-37.



Fish oil (Sand Eel)[1)] **[F-14]**

T (K)	P (bar)	w x 10^6
313.2	53.3	0
	100.6	730
	100.9	780
	151.0	1700
	151.2	1700
	202.3	4000
	203.1	3800
	255.0	7000
	255.2	7600
	255.5	6400
	345.0	10700
	352.0	10700
	450.4	15800
	452.0	14600
	552.1	21900
	552.4	19400
	553.5	18900
	554.2	17700
353.2	102.0	840
	106.5	0
	152.0	0
	201.1	380
	250.6	2500
	251.8	1800



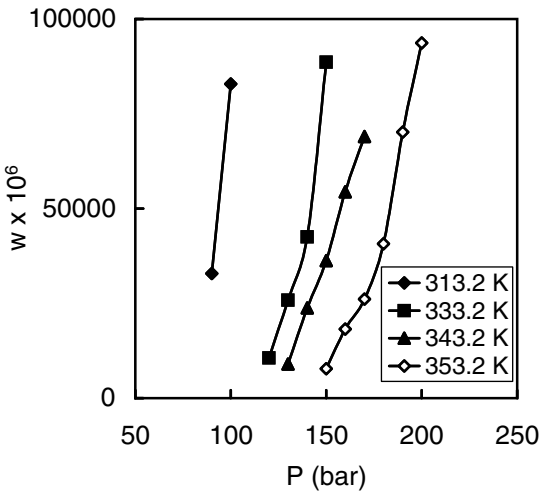
	302.3	5000
	302.6	4400
	350.4	9000
	350.8	8800
	400.5	14000
	403.0	14500
	450.4	20500
	451.0	22100
	501.0	28200
	501.7	28100
	550.6	34600
	550.8	35800
	600.2	44700
	600.3	45600
	650.4	53900
	650.8	55100
393.2	351.0	5300
	404.9	13300
	452.2	20000
	452.2	19800
	503.6	32000
	645.2	92500

1: Fish oil from sand eel (*Ammodytes lancea*).
Source: Borch-Jensen, C.; Mollerup, J. *Fluid Phase Equil.* (1997), 138(1-2), 179-211.

Fish oil ethyl esters (EE-1)[1)] **[F-15]**

T (K)	P (bar)	w x 10^6
313.2	90	32900
	100	82900
333.2	120	10600
	130	25800
	140	42500
	150	88600
343.2	130	9000
	140	23800
	150	36300
	160	54400
	170	69000
353.2	150	7800
	160	18200
	170	26100
	180	40700
	190	70200
	200	93700

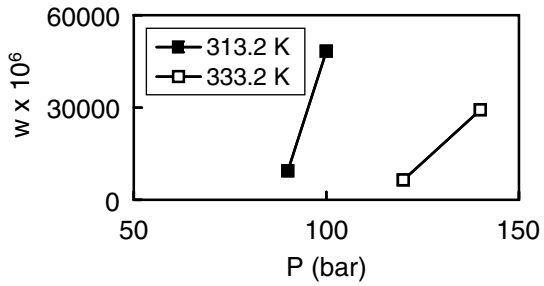
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-2)[1)] **[F-16]**

T (K)	P (bar)	w x 10^6
313.2	90	9400
	100	48300
333.2	120	6400
	140	29200

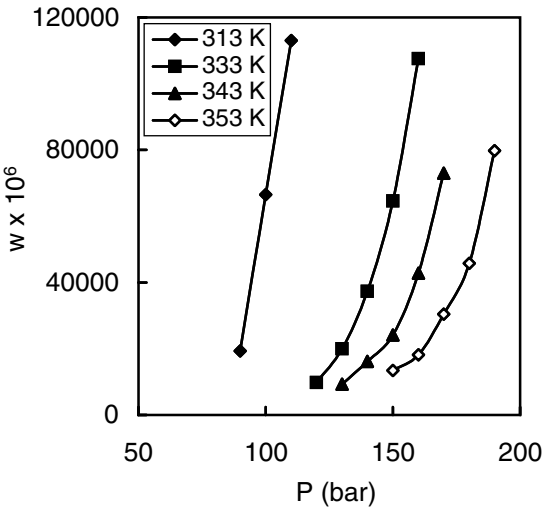
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-3)[1)] **[F-17]**

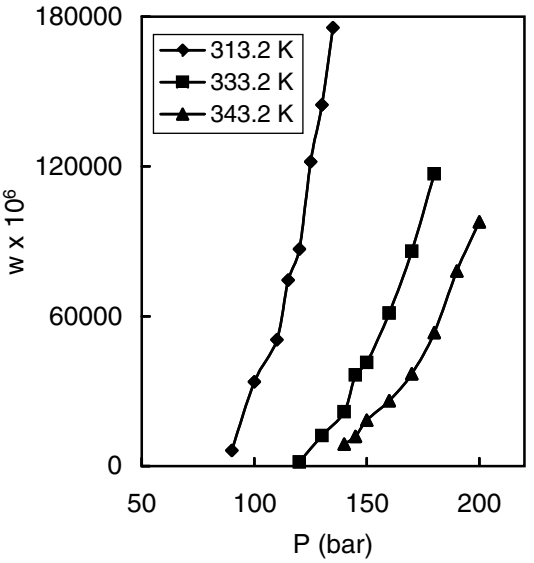
T (K)	P (bar)	w x 10^6
313.2	90	19300
	100	66500
	110	113000
333.2	120	9800
	130	20000
	140	37300
	150	64600
	160	107600
343.2	130	9300
	140	16200
	150	24100
	160	42800
	170	73000
353.2	150	13400
	160	18200
	170	30400
	180	45800
	190	79800

1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-4)[1)] **[F-18]**

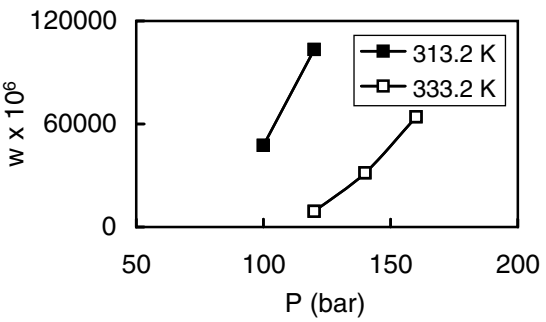
T (K)	P (bar)	w x 10^6
313.2	90	6300
	100	33800
	110	50600
	115	74500
	120	86900
	125	121900
	130	144700
	135	175600
333.2	120	1600
	130	12200
	140	21800
	145	36500
	150	41500
	160	61300
	170	86000
	180	117100
343.2	140	8800
	145	11900
	150	18400
	160	26200
	170	37000
	180	53500
	190	78100
	200	97800



1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.

Fish oil ethyl esters (EE-5)[1)] **[F-19]**

T (K)	P (bar)	w x 10^6
313.2	100	47500
	120	103400
333.2	120	9100
	140	31500
	160	64100

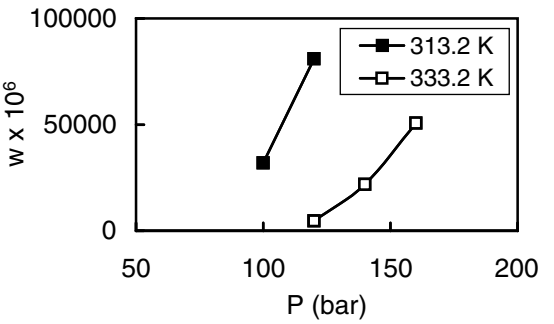


1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.

Fish oil ethyl esters (EE-6)[1)] **[F-20]**

T (K)	P(bar)	w x 10^6
313.2	100	32000
	120	81000
333.2	120	4600
	140	21800
	160	50700

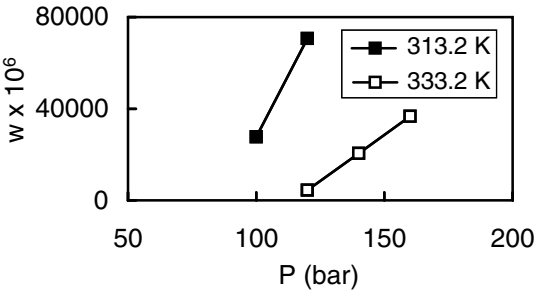
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G.
J. Supercrit. Fluids (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-7)[1)] **[F-21]**

T (K)	P (bar)	w x 10^6
313.2	100	27700
	120	70700
333.2	120	4400
	140	20500
	160	36700

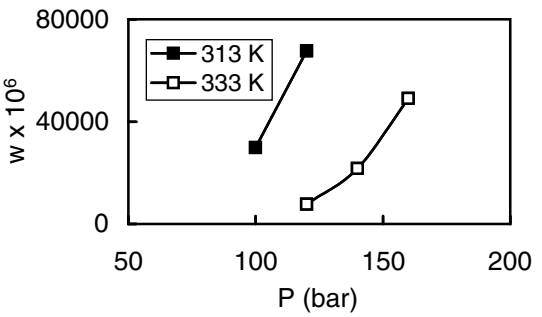
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G.
J. Supercrit. Fluids (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-8)[1)] **[F-22]**

T (K)	P (bar)	w x 10^6
313.2	100	29900
	120	67700
333.2	120	7700
	140	21700
	160	49100

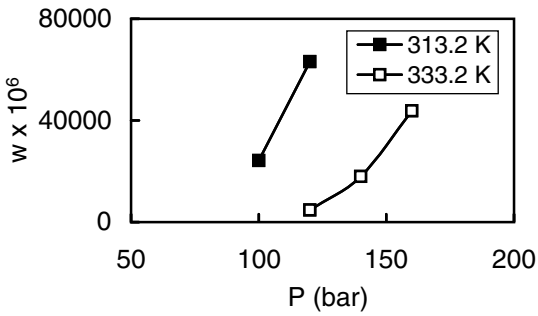
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G.
J. Supercrit. Fluids (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-9)[1)] **[F-23]**

T (K)	P (bar)	w x 10^6
313.2	100	24200
	120	63100
333.2	120	4800
	140	17900
	160	43800

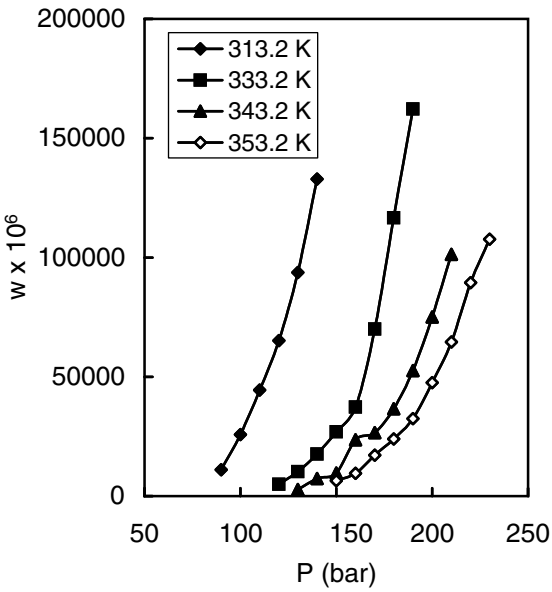
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-10)[1)] **[F-24]**

T (K)	P (bar)	w x 10^6
313.2	90	11100
	100	25800
	110	44400
	120	65200
	130	93700
	140	132900
333.2	120	4900
	130	10300
	140	17600
	150	26900
	160	37300
	170	70000
	180	116600
	190	162200
343.2	130	2800
	140	7400
	150	9700
	160	23600
	170	26600
	180	36600
	190	52600
	200	75100
	210	101300
353.2	150	6500
	160	9500
	170	17100
	180	24000
	190	32500
	200	47500
	210	64600
	220	89500
	230	107600

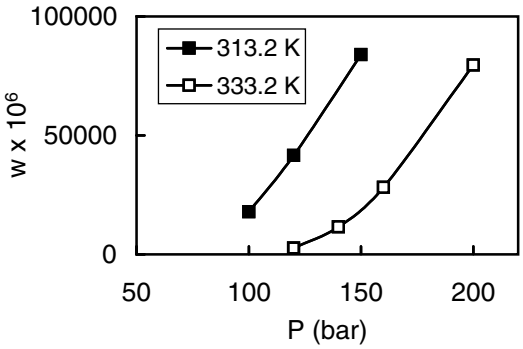
1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-11)[1)] **[F-25]**

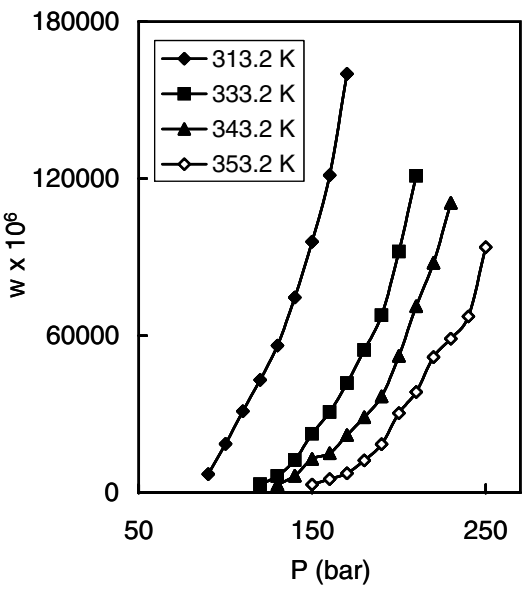
T (K)	P (bar)	w x 10^6
313.2	100	17900
	120	41600
	150	84000
333.2	120	2600
	140	11500
	160	28200
	200	79600

1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G.
J. Supercrit. Fluids (1999), 15(1), 33-50.



Fish oil ethyl esters (EE-12)[1)] **[F-26]**

T (K)	P (bar)	w x 10^6
313.2	90	7000
	100	18600
	110	31100
	120	43100
	130	56200
	140	74600
	150	95900
	160	121300
	170	160000
333.2	120	3100
	130	6300
	140	12400
	150	22500
	160	30800
	170	41800
	180	54500
	190	67700
	200	92100
	210	121100
343.2	130	2900
	140	6400
	150	12800
	160	15000
	170	22000
	180	28800
	190	36800
	200	52200
	210	71200
	220	87800
	230	110700

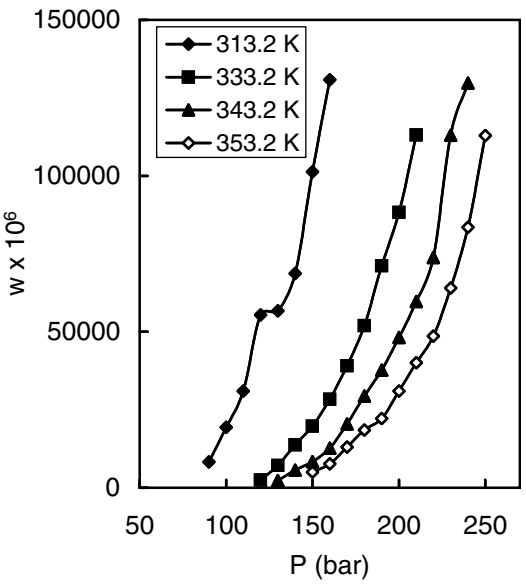


353.2	150	3000
	160	5100
	170	7300
	180	12300
	190	18500
	200	30300
	210	38400
	220	51800
	230	58800
	240	67300
	250	93800

1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.

Fish oil ethyl esters (EE-13)[1)] **[F-27]**

T (K)	P (bar)	w x 10^6
313.2	90	8300
	100	19400
	110	31000
	120	55400
	130	56700
	140	68700
	150	101300
	160	130800
333.2	120	2500
	130	7100
	140	13700
	150	19700
	160	28400
	170	39100
	180	52000
	190	71200
	200	88300
	210	113100
343.2	130	2300
	140	5600
	150	8400
	160	12700
	170	20400
	180	29400
	190	37700
	200	48200
	210	59700
	220	73800
	230	113000
	240	129700

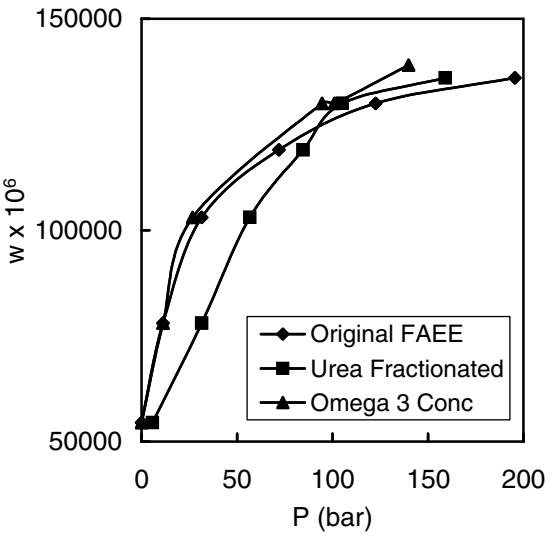


353.2	150	5000
	160	7700
	170	13000
	180	18500
	190	22200
	200	31000
	210	40100
	220	48600
	230	64000
	240	83500
	250	112900

1: Artificial mixture of high hydrocarbon ethyl esters, ranging from C_{14} to C_{22}.
Source: Riha, V.; Brunner, G. *J. Supercrit. Fluids* (1999), 15(1), 33-50.

Fish oil fatty acid ethyl ester (FAEE) [F-28]

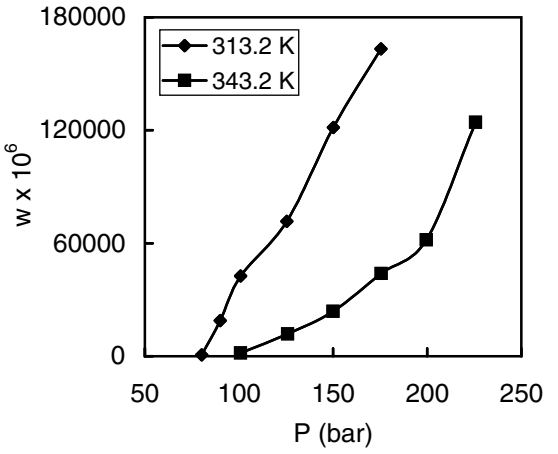
T (K)	P (bar)	w x 10^6
From Original FAEE		
343.15	0.0	54500
	11.3	78000
	31.5	103000
	72.0	119000
	122.7	130000
	195.5	136000
From Urea Fractionated		
343.15	5.7	54500
	31.5	78000
	56.8	103000
	84.6	119000
	105.2	130000
	159.1	136000
From Omega 3 Concentrate		
343.15	0.0	54500
	11.3	78000
	26.7	103000
	94.6	130000
	101.0	130000
	139.9	139000



Source: Borch-Jensen, C.; Henriksen, O.; Mollerup, J. *ACS Symp. Series* (1997), 670 *(Supercrit. Fluids),* 90-100.

Fish oil fatty acid ethyl ester, Urea fractionated **[F-29]**

T (K)	P (bar)	w x 10^6
313.2	80.2	700
	90.0	18900
	100.8	42600
	125.5	71700
	150.1	121500
	175.4	163300
343.2	100.8	1800
	125.8	11800
	150.0	23800
	175.6	43900
	199.5	61900
	225.7	124200

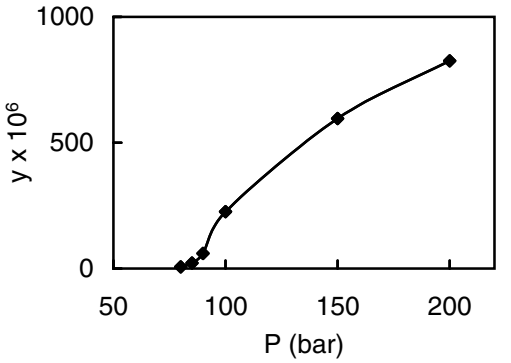


Source: Borch-Jensen, C.; Staby, A.; Mollerup, J. M. *Ind. Eng. Chem. Res.* (1994), 33(6), 1574-1579.

[F-30]

Flavone ($C_{15}H_{10}O_2$; MW= 222.24)

T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	80	0.06	6
	85	0.21	21
	90	0.60	60
	100	2.26	226
	150	5.95	596
	200	8.24	825



1: Obtained by digitizing the graph in the original article.

2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.

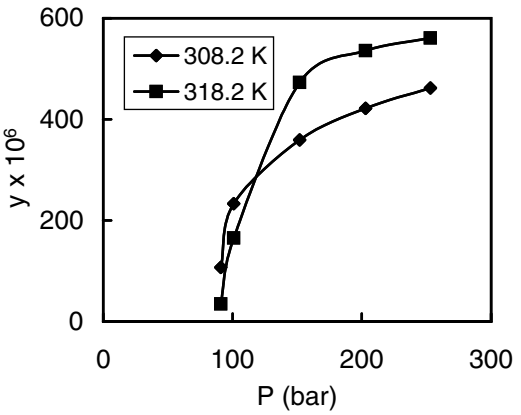
3: Calculated from S.

Synonym: 2-Phenyl-4-chromone

Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.

Flavone ($C_{15}H_{10}O_2$; MW=222.24) **[F-31]**

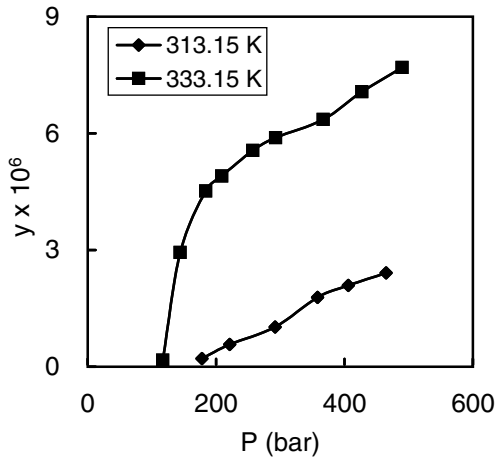
T (K)	P (bar)	y x 10^6
308.2	91	107
	101	233
	152	359
	203	422
	253	462
318.2	91	35
	101	165
	152	473
	203	536
	253	561



Synonym: 2-Phenyl-4-chromone
Source: Uchiyama, H.; Mishima, K.; Oka, S.; Ezawa, M.; Ide, M.; Takai, T.; Park, P. W. *J. Chem. Eng. Data* (1997), 42(3), 570-573.

Florfenicol ($C_{12}H_{14}Cl_2FNO_4S$; MW=358.21) **[F-32]**

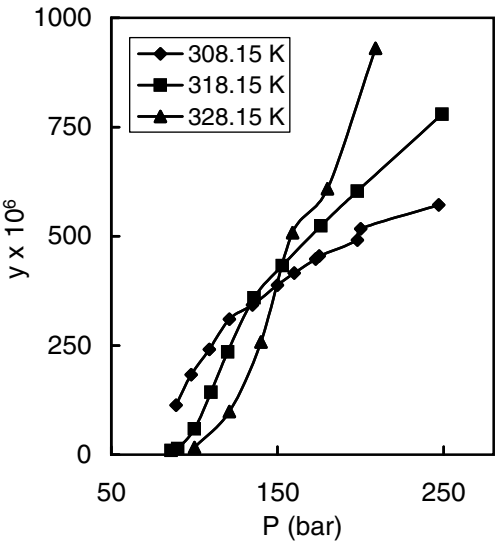
T (K)	P (bar)	y x 10^6
313.15	178	0.21
	221	0.57
	292	1.02
	358	1.78
	406	2.09
	465	2.41
333.15	117	0.17
	144	2.94
	184	4.52
	209	4.90
	257	5.56
	293	5.89
	367	6.36
	427	7.07
	490	7.69



Synonyms: Aquafen; 2,2-Dichloro-*N*-[(1*S*, 2*R*)-1-(fluoromethyl)-2-hydroxy-2-[4-(methylsulfonyl) phenyl]ethyl]acetamide
Source: Li, S.; Maxwell, R. J.; Shadwell, R. J. *Fluid Phase Equil.* (2002), 198(1), 67-80.

Fluoranthene ($C_{16}H_{10}$; MW=202.25) **[F-33]**

T (K)	P (bar)	y x 10^6
308.15	89	113
	98	183
	109	241
	121	310
	135	343
	150	388
	160	416
	173	448
	175	455
	198	491
	200	517
	247	572
318.15	86	9
	90	14
	100	59
	110	143
	120	235
	136	359
	153	433
	176	524
	198	603
	249	779
328.15	100	17
	121	99
	140	258
	159	508
	180	609
	209	930

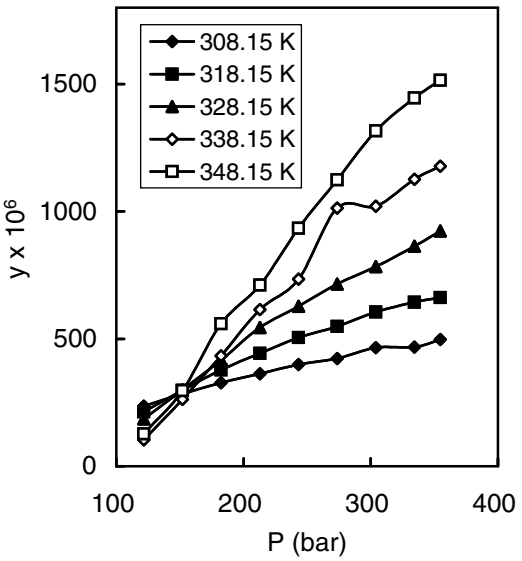


Synonym: Benzo[*j, k*]fluorene
Source: Barna, L.; Blanchard, J.-M.; Rauzy, E.; Berro, C. *J. Chem. Eng. Data* (1996), 41(6), 1466-1469.

Fluoranthene ($C_{16}H_{10}$; MW=202.25) **[F-34]**

T (K)	P (bar)	y x 10^6
308.15	121.6	236
	152.0	284
	182.4	328
	212.8	363
	243.2	399
	273.6	423
	304.0	465
	334.4	468
	354.6	497
318.15	121.6	214
	152.0	298
	182.4	378

	212.8	443
	243.2	505
	273.6	549
	304.0	605
	334.4	644
	354.6	662
328.15	121.6	186
	152.0	300
	182.4	416
	212.8	544
	243.2	628
	273.6	715
	304.0	784
	334.4	864
	354.6	923
338.15	121.6	104
	152.0	263
	182.4	433
	212.8	615
	243.2	735
	273.6	1013
	304.0	1021
	334.4	1126
	354.6	1178
348.15	121.6	127
	152.0	297
	182.4	559
	212.8	711
	243.2	934
	273.6	1124
	304.0	1316
	334.4	1446
	354.6	1515

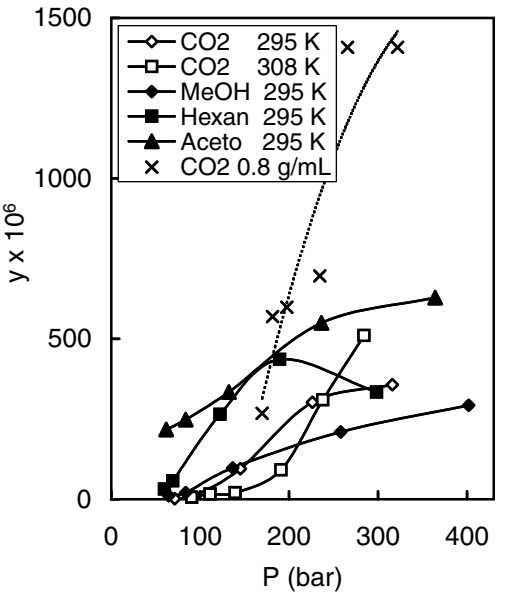


Synonym: Benzo[*j, k*]fluorene
Source: Yamini, Y.; Bahramifar, N. *J. Chem. Eng. Data* (2000), 45(1), 53-56.

Fluoranthene ($C_{16}H_{10}$; MW=202.25) **[F-35]**

		Cosolvent[3]	
T[1] (K)	P[2] (bar)	(mol%)	y[4] x 10^6
295.2	71	0.0	2
	92	0.0	11
	145	0.0	95
	226	0.0	303
	316	0.0	357
308.2	91	0.0	6
	111	0.0	16
	139	0.0	21

	191	0.0	91
	238	0.0	310
	284	0.0	510
		Methanol	
295.2	65	3.2	11
	84	3.2	21
	136	3.2	98
	258	3.2	210
	402	3.2	293
		Hexane	
	60	3.2	32
	69	3.2	57
	122	3.2	265
	189	3.2	436
	298	3.2	334
		Acetone	
	62	3.2	217
	84	3.2	248
	132	3.2	334
	236	3.2	550
	364	3.2	628
		ρ = 0.80 g/ml	
314	170	0.0	268
317	181	0.0	569
320	197	0.0	599
325	235	0.0	696
333	266	0.0	1408
345	322	0.0	1408

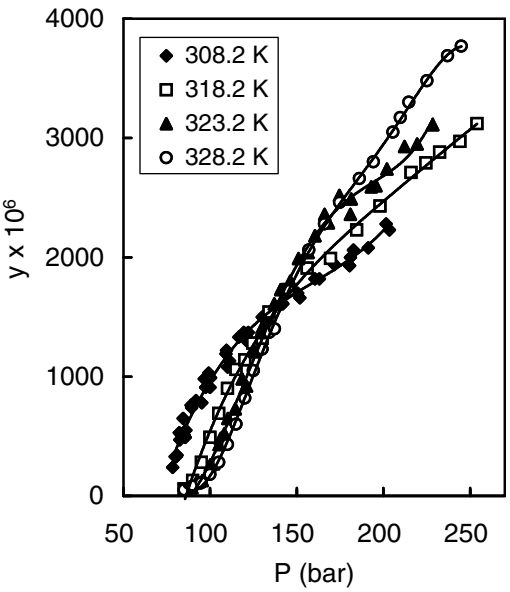


1: Obtained by digitizing the graph in the original article (temperatures at 0.80 g/ml).
2: Calculated from temperature and density in the source graph.
3: Cosolvent in CO_2.
4: Obtained by digitizing the graph in the original article.
Synonym: Benzo[*j, k*]fluorene
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

Fluorene ($C_{13}H_{10}$; MW = 166.22) **[F-36]**

T (K)	P (bar)	y x 10^6
308.2	78.3	240
	79.8	330
	80.4	330
	80.9	340
	82.2	530
	82.5	470
	83.4	510
	84.4	650
	85.1	510

	85.6	490
	86.0	550
	89.0	760
	89.3	740
	91.8	800
	95.1	780
	96.6	980
	97.4	910
	99.1	1030
	100.0	910
	100.3	990
	109.2	1190
	109.5	1220
	110.0	1080
	111.2	1130
	116.5	1330
	119.5	1370
	120.7	1340
	121.0	1300
	121.9	1370
	130.0	1500
	130.5	1500
	131.2	1500
	140.4	1600
	141.4	1620
	142.0	1610
	150.5	1700
	151.7	1660
	160.5	1820
	163.0	1820
	170.4	1960
	171.7	1940
	180.5	1930
	181.0	2000
	182.6	2060
	191.2	2080
	201.6	2280
	203.5	2230
318.2	85.0	60
	90.0	130
	95.0	280
	100.0	490
	105.0	690
	110.0	900
	115.0	1060
	120.0	1140
	124.6	1280
	130.0	1320
	134.0	1540
	145.0	1730
	156.0	1910
	169.5	1990
	184.5	2230



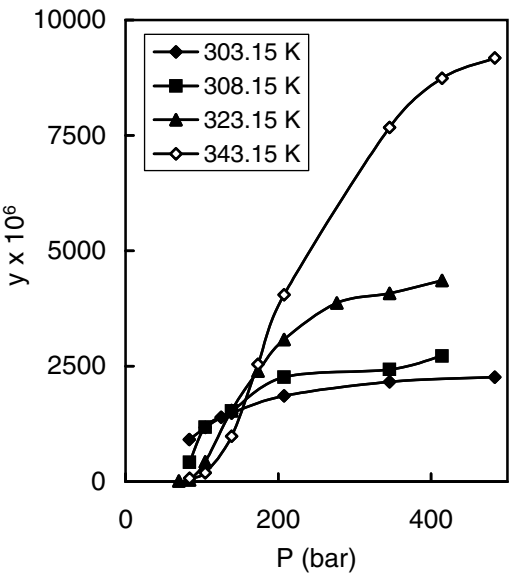
	198.0	2430
	216.0	2710
	224.5	2790
	232.5	2880
	244.2	2970
	254.0	3120
323.2	89.4	70
	92.0	110
	95.5	130
	100.1	260
	102.0	270
	105.2	430
	105.9	480
	106.7	490
	108.1	520
	108.8	500
	110.2	650
	114.5	730
	118.5	980
	121.0	920
	125.7	1210
	129.4	1370
	130.3	1420
	135.6	1440
	137.0	1610
	140.7	1730
	145.0	1730
	146.2	1800
	151.0	1990
	156.0	2050
	156.5	2040
	160.5	2180
	166.0	2360
	167.0	2310
	168.2	2290
	174.6	2520
	181.0	2360
	181.4	2490
	193.0	2590
	195.6	2600
	202.0	2740
	212.2	2930
	219.5	2950
	228.5	3110
328.2	85.0	50
	90.0	80
	95.0	110
	100.0	180
	105.0	280
	110.0	430
	115.0	600
	120.0	820
	125.0	1050

130.0	1230
134.2	1370
137.2	1400
145.5	1720
157.0	2060
166.1	2280
174.8	2460
186.1	2660
194.2	2800
205.5	3050
209.8	3170
214.7	3300
225.2	3480
237.0	3690
245.0	3770

Synonym: 2,2'-Methylenebiphenyl
Source: Bartle, K. D.; Clifford, A. A.; Jafar, S. A.
J. Chem. Eng. Data (1990), 35(3), 355-360.

Fluorene ($C_{13}H_{10}$; MW=166.22) **[F-37]**

T (K)	P (bar)	y x 10^6
303.15	83.6	911
	104.3	1170
	125.0	1390
	138.8	1480
	207.7	1860
	345.6	2160
	483.5	2260
308.15	83.7	415
	104.3	1180
	138.8	1530
	207.7	2260
	345.6	2430
	414.5	2720
323.15	69.9	11
	83.7	36
	104.3	428
	138.8	1540
	173.3	2390
	207.7	3080
	276.7	3870
	345.6	4080
	414.5	4360
343.15	83.7	69
	104.3	192
	138.8	985

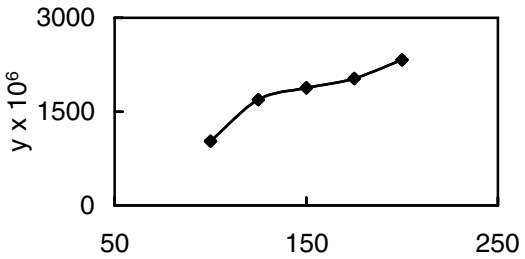


173.3	2540
207.7	4050
345.6	7670
414.5	8740
483.4	9180

Synonym: 2, 2'-Methylenebiphenyl
Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.* (1982), 21(3), 191-197.

Fluorene ($C_{13}H_{10}$; MW=166.22) **[F-38]**

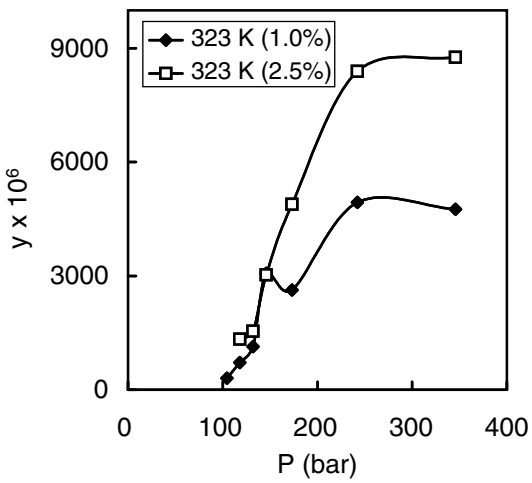
T (K)	P (bar)	y x 10^6
313.1	100	1030
	125	1690
	150	1880
	175	2030
	200	2330



Synonym: 2, 2'-Methylenebiphenyl
Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.

Fluorene ($C_{13}H_{10}$; MW=166.22) **[F-39]**

T (K)	P (bar)	Acetone[1)] (mol %)	y x 10^6
323	104.4	1.0	303
	118.2	1.0	714
	132.0	1.0	1140
	145.8	1.0	3070
	173.3	1.0	2630
	242.3	1.0	4940
	345.8	1.0	4760
	118.2	2.5	1330
	132.0	2.5	1540
	145.8	2.5	3030
	173.3	2.5	4890
	242.3	2.5	8390
	345.7	2.5	8760

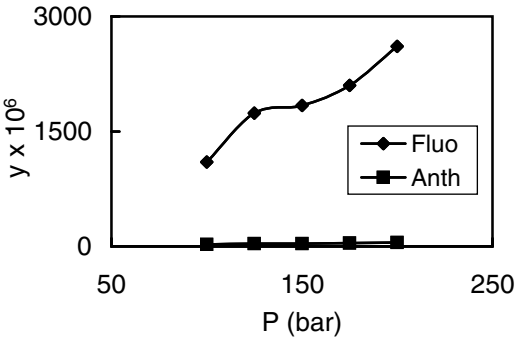


1: Cosolvent in CO_2 on a solute-free basis.
Synonym: 2, 2'-Methylenebiphenyl
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.

Fluorene(1) + Anthracene (2) Mixture **[F-40]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
313.1	100	1100	25.4
	125	1740	37.6
	150	1840	35.2
	175	2100	43.2
	200	2610	50.9

Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.

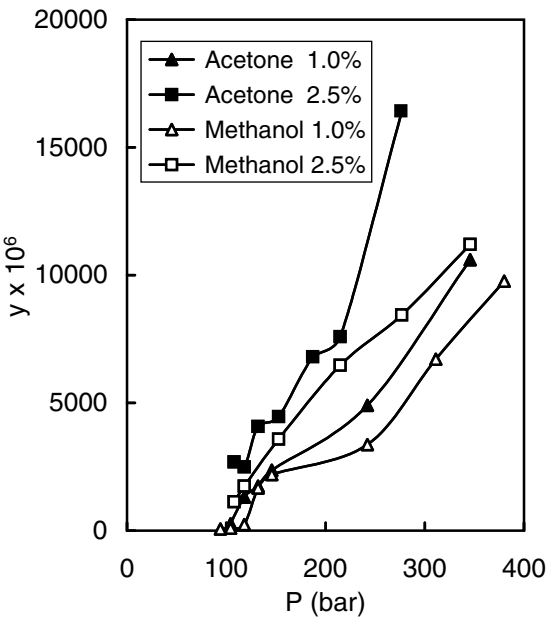


[F-41]

9-Fluorenone ($C_{13}H_8O$; MW=180.20)

T (K)	P (bar)	Cosolvent[1] (mol%)	y x 10^6
		Acetone	
323	104.4	1.0	265
	118.2	1.0	1310
	132.0	1.0	1740
	145.8	1.0	2370
	242.3	1.0	4900
	345.7	1.0	10600
	107.9	2.5	2690
	118.2	2.5	2490
	132.0	2.5	4070
	152.7	2.5	4460
	187.1	2.5	6810
	214.7	2.5	7590
	276.7	2.5	16400
		Methanol	
323	94.1	1.0	59
	104.4	1.0	99
	118.2	1.0	239
	132.0	1.0	1670
	145.8	1.0	2190
	242.3	1.0	3370
	311.2	1.0	6710
	380.1	1.0	9760
	107.9	2.5	1130
	118.2	2.5	1740
	152.7	2.5	3580
	214.7	2.5	6470
	276.7	2.5	8440
	345.7	2.5	11200

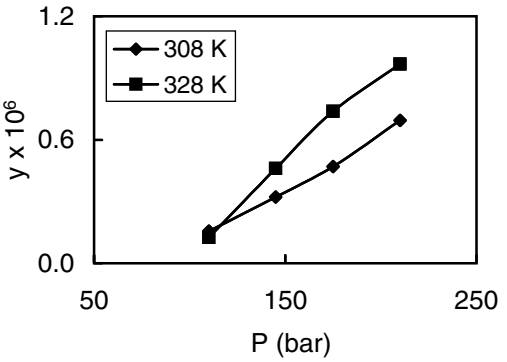
1: Cosolvent in CO_2 on a solute-free basis.
Synonym: Fluoren-9-one
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.



5-Fluorouracil ($C_4H_3FN_2O_2$; MW=130.08) **[F-42]**

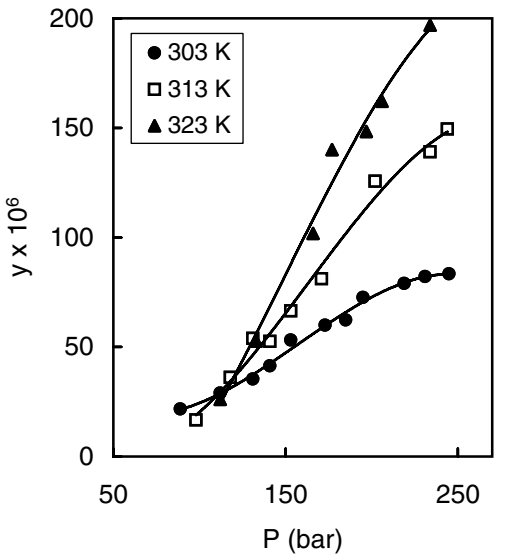
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
308	110	0.46	0.156
	145	0.95	0.321
	175	1.39	0.470
	210	2.05	0.694
328	110	0.37	0.125
	145	1.36	0.460
	175	2.18	0.738
	210	2.86	0.968

1: Calculated from w.
Synonym: 5-Fluoro-2,4-pyrimidinedione
Source: Guney, O.; Akgerman, A.
J. Chem. Eng. Data (2000), 45(6), 1049 - 1052.



Flurbiprofen ($C_{15}H_{13}FO_2$; MW=244.26) **[F-43]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
303	89	0.10	21.7
	112	0.13	29.0
	131	0.16	35.3
	141	0.19	41.4
	153	0.25	53.1
	173	0.28	59.9
	185	0.30	62.4
	195	0.36	72.6
	219	0.40	79.0
	231	0.42	82.1
	245	0.43	83.4
313	98	0.06	16.7
	118	0.14	36.1
	131	0.22	53.9
	141	0.22	52.5
	153	0.29	66.5
	171	0.37	81.2
	202	*0.59*	125.6
	234	*0.67*	139.0
	244	0.73	149.5
323	112	0.08	26.0
	133	0.19	52.7
	166	0.42	101.8

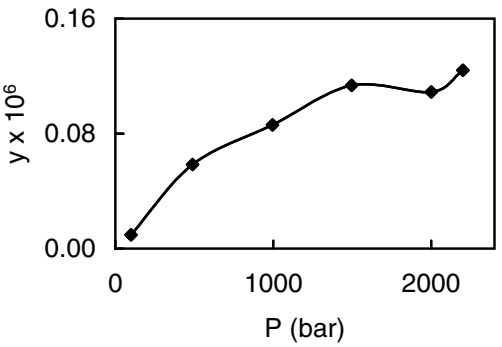


177	0.60	140.1
197	0.65	148.4
206	0.71	162.1
234	0.90	196.8

1: At 313 K the solubility S might have been misprinted to 0.52 and 0.55 at 202 and 234 bar, respectively, in the source table. They were re-calculated based on y's in Table 1 and Figure 3 in the original article.
Synonym: 2-Fluoro-α-methyl-4-biphenylacetic acid
Source: Duarte, A. R. C.; Coimbra, P.; de Sousa, H. C.; Duarte, C. M. M. *J. Chem. Eng. Data* (2004), 49(3), 449-452.

Frangulin A ($C_{21}H_{20}O_9$; MW=416.38) **[F-44]**

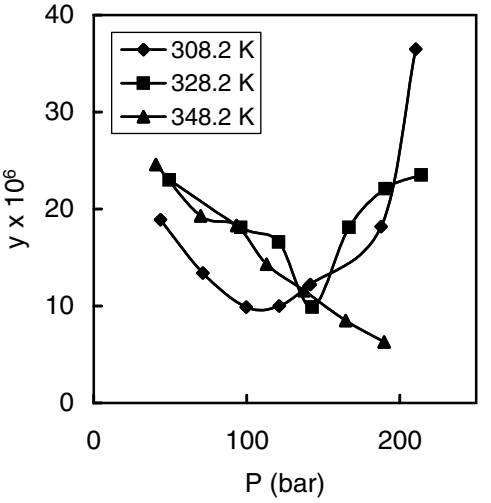
T (K)	P[1] (bar)	S[2] (µg/Nl[3])	y[4] x 10^6
313.15	100	0.18	0.010
	489	1.09	0.058
	994	1.61	0.086
	1495	2.12	0.114
	2000	2.04	0.109
	2200	2.32	0.124



1: Calculated from temperature and density obtained by digitizing the original graph.
2: Obtained by digitizing the graph in the original article.
3: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
4: Calculated from S.
Synonym: 3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-1,8-dihydroxy-6-methylanthaquinone
Source: Stahl, E.; Schilz, W.; Schutz, E.; Willing, E. *Angew. Chem. Int. Ed. Engl.* (1978), 17, 731-738.

D-(—)-Fructose ($C_6H_{12}O_6$; MW=180.16) **[F-45]**

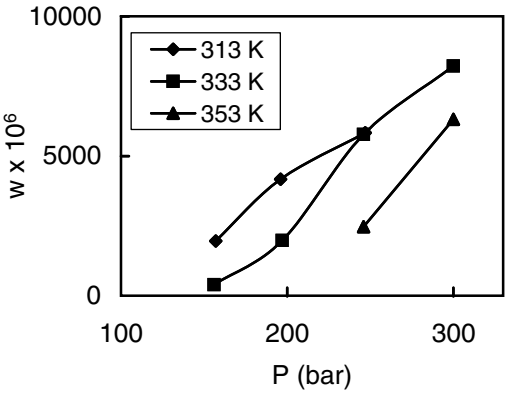
T (K)	P (bar)	y x 10^6
308.2	43.7	18.9
	71.3	13.4
	99.6	9.9
	121.3	10.0
	141.5	12.2
	187.8	18.2
	210.5	36.5
328.2	49.3	23.0
	96.1	18.1
	120.9	16.6
	142.7	9.9
	166.8	18.1
	190.6	22.1
	214.0	23.5
348.2	40.6	24.6
	69.9	19.3
	93.4	18.3
	113.0	14.3
	137.5	11.6
	164.7	8.5
	189.9	6.3



Synonym: D-Fructose; D-(–)-Levulose
Source: Yau, J.-S.; Tsai, F.-N. *J. Supercrit. Fluids* (1994), 7(2), 129-133.

Fungal oil[1] **[F-46]**

T (K)	P[2] (bar)	S[2] (g/L)	w[3] x 10^6
313	157	1.55	1960
	196	3.51	4170
	247	5.16	5830
333	156	0.25	389
	197	1.43	1980
	246	4.56	5770
	300	6.89	8220
353	246	1.69	2470
	300	4.75	6310



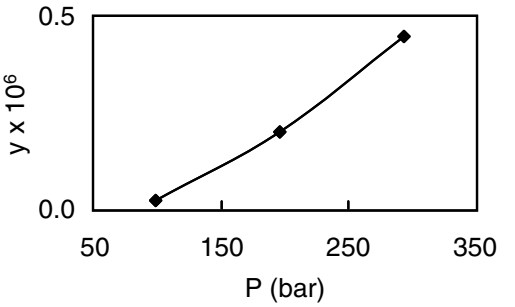
1: Extracted from fungi (*Mortierella ramanniana var. angulispora).*
2: Obtained by digitizing the graph in the original article.
3: Calculated from S.
Source: Sakaki, K.; Yokochi, T.; Suzuki, O.; Hakuta, T. *J. Am. Oil Chem. Soc.* (1990), 67(9), 558-557.

7 Solubility Data G

Gallium tris(acetylacetonate) ($C_{15}H_{21}GaO_6$; FW=367.05) **[G-1]**

T (K)	P[1] (bar)	S[1] (mg/L)	y[2] x 10^6
333	98	0.06	0.024
	196	1.21	0.201
	294	3.10	0.449

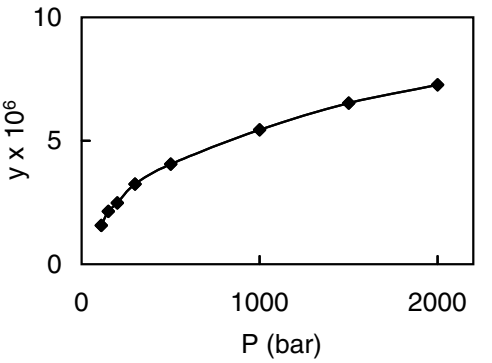
1: Obtained by digitizing from the original article.
2. Calculated from S.
Synonym: Tris(2,4-pentanedionato)gallium
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Gentisic acid ($C_7H_6O_4$; MW=154.12) **[G-2]**

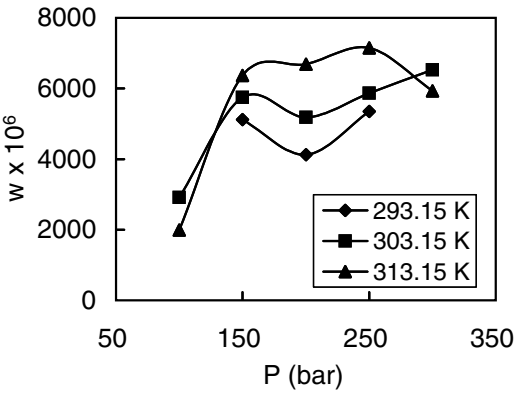
T (K)	P[1] (bar)	S[1] (μg/Nl[2])	y[3] x 10^6
313.15	110	10.9	1.57
	150	14.8	2.14
	200	17.2	2.48
	300	22.5	3.25
	500	28.1	4.06
	1000	37.7	5.45
	1500	45.2	6.53
	2000	50.3	7.27

1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: 2,5-Dihydroxybenzoic acid; 5-Hydroxysalicylic acid
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.



Ginger (*Zingiber officinale Roscoe*) rhizomes extract **[G-3]**

T (K)	P (bar)	W (g/kg)	$w^{1)} \times 10^6$
293.15	150.0	5.15	5120
	200.0	4.14	4120
	250.0	5.38	5350
303.15	100.0	2.92	2910
	150.0	5.78	5750
	200.0	5.21	5180
	250.0	5.90	5870
	300.0	6.57	6530
313.15	100.0	1.99	1990
	150.0	6.41	6370
	200.0	6.73	6690
	250.0	7.20	7150
	300.0	5.97	5930

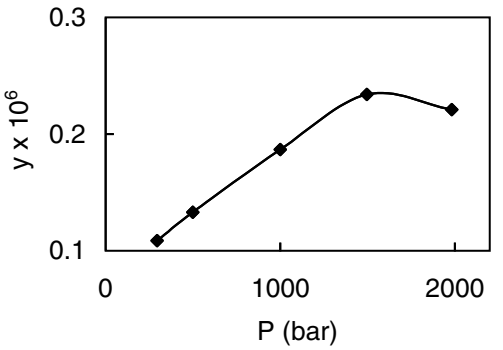


1: Calculated from W.
Source: Rodrigues, V. M.; Sousa, E. M. B. D.; Monteiro, A. R.; Chiavone-Filho, O.; Marques, M. O. M.; Meireles, M. A. A. *J. Supercrit. Fluids* (2002), 22(1), 21-36.

[G-4]

D-(+)-Glucose ($C_6H_{12}O_6$; MW=180.16)

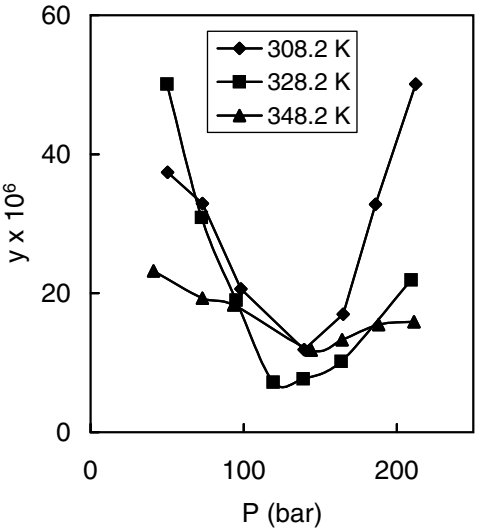
T (K)	$P^{1)}$ (bar)	$S^{1)}$ (μg/Nl[2)])	$y^{3)} \times 10^6$
313.15	296	0.88	0.109
	500	1.08	0.133
	1000	1.51	0.187
	1497	1.89	0.234
	1983	1.79	0.221



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: D-Glucose; Dextrose
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

D-(+)-Glucose ($C_6H_{12}O_6$; MW=180.16) **[G-5]**

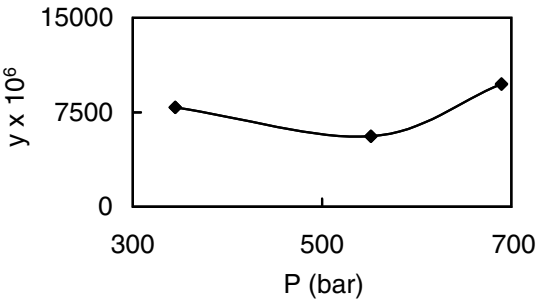
T (K)	P (bar)	y x 10^6
308.2	50.3	37.4
	73.0	32.9
	98.2	20.6
	139.5	11.9
	165.1	17.0
	186.1	32.8
	212.3	50.1
328.2	49.9	50.1
	72.5	30.9
	95.1	19.0
	119.4	7.2
	138.9	7.7
	163.7	10.2
	209.5	21.9
348.2	41.1	23.2
	73.0	19.3
	93.4	18.3
	144.0	11.8
	164.2	13.3
	188.1	15.5
	211.2	15.9



Synonyms: D-Glucose; Dextrose
Source: Yau, J.-S.; Tsai, F.-N. *J. Supercrit. Fluids* (1994), 7(2), 129-133.

Glycerol ($C_3H_8O_3$; MW=92.09) **[G-6]**

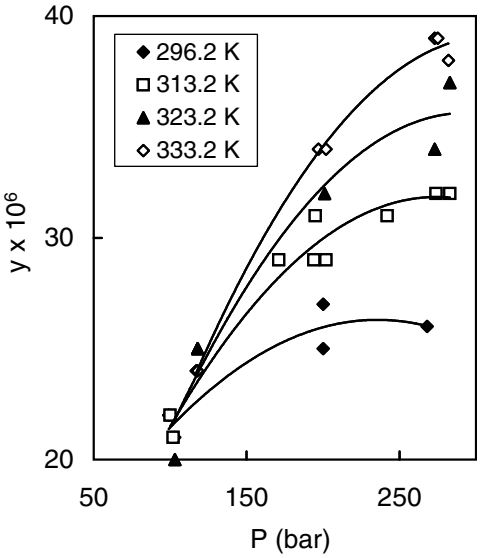
T (K)	P (bar)	y x 10^6
325.15	344.7	7900
	551.6	5600
	689.5	9750



Synonyms: Glycerin; 1,2,3-Propanetriol
Source: Eissler, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.

Glycerol ($C_3H_8O_3$; MW=92.09) **[G-7]**

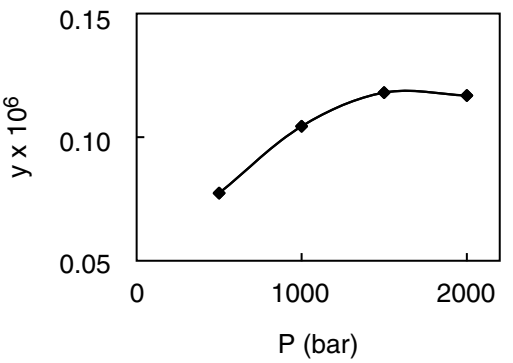
T (K)	P (bar)	y x 10^6
296.2	99	22
	103	21
	200	27
	200	25
	268	26
313.2	100	22
	102	21
	171	29
	194	29
	195	31
	202	29
	242	31
	274	32
	283	32
323.2	103	20
	118	25
	118	25
	201	32
	273	34
	283	37
333.2	117	24
	118	24
	197	34
	202	34
	273	39
	275	39
	282	38



Synonyms: Glycerin; 1,2,3-Propanetriol
Source: Sovova, H.; Jez, J.; Khachaturyan, M. *Fluid Phase Equil.* (1997), 137(1-2), 185-191.

Glycine ($C_2H_5NO_2$; MW=75.07) **[G-8]**

T (K)	P[1)] (bar)	S[1)] (µg/Nl[2)])	y[3)] x 10^6
313.15	500	0.261	0.077
	1000	0.352	0.104
	1500	0.398	0.118
	2000	0.394	0.117

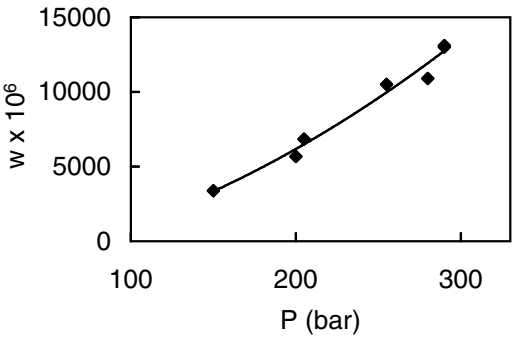


1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: 2-Aminoacetic acid
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

Grape seed[1)] oil **[G-9]**

T (K)	P (bar)	W (g/kg)	w[2)] x 10^6
313.15	150	3.4	3390
	200	5.7	5670
	205	6.9	6850
	255	10.6	10500
	280	11.0	10900
	290	13.3	13100
	290	13.2	13000

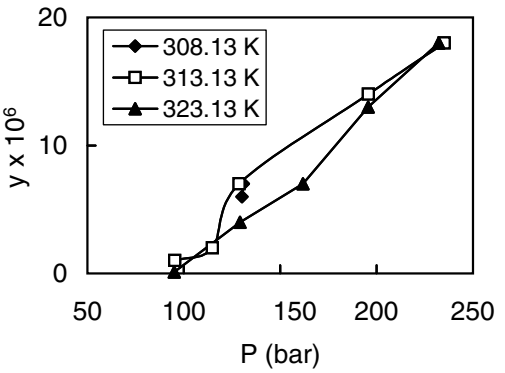
1: Seed of grape (*Vitis vinifera*) from a winery in Negotino, Macedonia.
2: Calculated from W.
Source: Sovova, H.; Zarevucka, M.; Vacek, M.; Stransky, K. *J. Supercrit. Fluids* (2001), 20(1), 15-28.

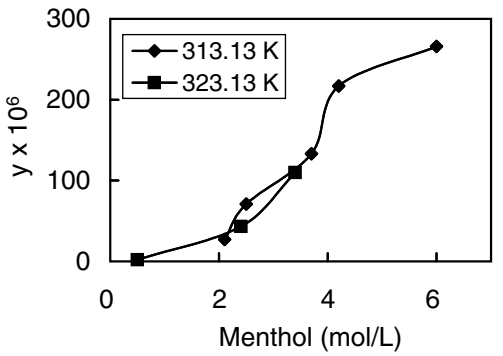


Griseofulvin ($C_{17}H_{17}ClO_6$; MW=352.77) **[G-10]**

T (K)	P (bar)	Menthol[1)] (mol%)	y x 10^6
308.13	130.2	0	6.0
	130.9	0	7.0
313.13	95.4	0	1.0
	114.9	0	2.0
	128.7	0	7.0
	195.7	0	14.0
	235.2	0	18.0
323.13	95.1	0	0.1
	129.1	0	4.0
	161.8	0	7.0
	195.6	0	13.0
	232.2	0	18.0
313.13	96.0	2.1	27.0
	117.0	2.5	71.0
	130.0	3.7	133.0
	198.0	4.2	217.0
	239.0	6.0	266.0
323.13	96.0	0.5	2.0
	130.0	2.4	43.0
	164.0	3.4	110.0

1: Cosolvent in CO_2.
Synonym: 7-Chloro-2',4,6-trimethoxy-6'-methylspiro[benzofuran-2(3*H*),1'- [2] cyclohexene]-3,4'-dione
Source: Thakur, R., Ph.D. Dissertation, Auburn University, Auburn, Alabama, 2006.





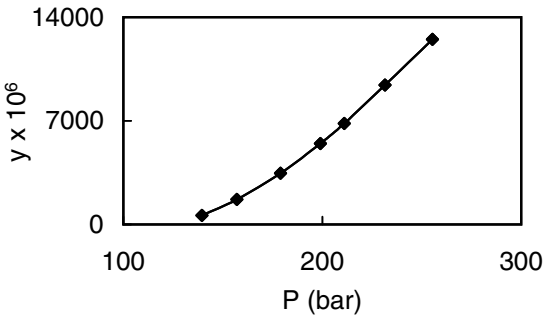
8 Solubility Data H

Heneicosane ($C_{21}H_{44}$; MW=296.58) **[H-1]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343	139.5	1.9	610
	157.0	6.3	1700
	179.0	14.4	3470
	199.1	24.5	5470
	211.1	31.6	6820
	231.6	45.8	9410
	255.4	63.8	12500

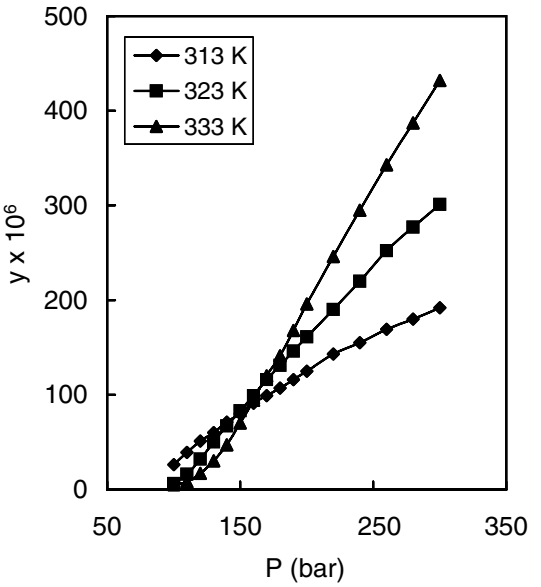
1: Calculated from S.

Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.



2,2',3,4,4',5,5'-Heptachlorobiphenyl ($C_{12}H_3Cl_7$; MW=395.32) **[H-2]**

T (K)	P (bar)	y x 10^6
313	100	26
	110	39
	120	51
	130	60
	140	71
	150	80
	160	91
	170	99
	180	107
	190	116
	200	125
	220	143
	240	155
	260	169
	280	180
	300	192
323	100	6
	110	16
	120	32
	130	50



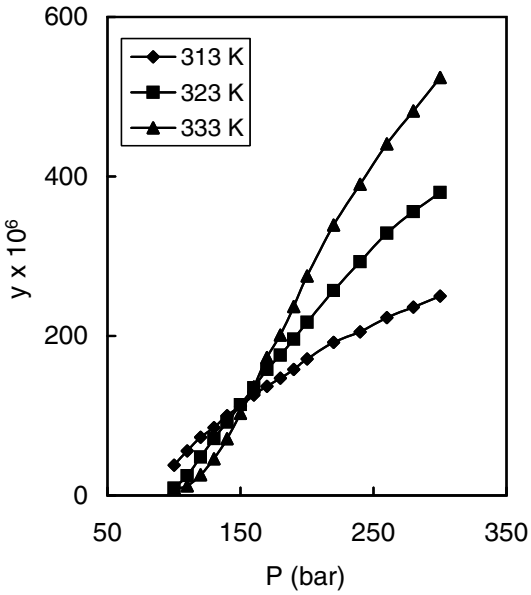
	140	67
	150	83
	160	99
	170	116
	180	131
	190	146
	200	161
	220	190
	240	220
	260	252
	280	277
	300	301
333	100	5
	110	8
	120	17
	130	30
	140	47
	150	70
	160	94
	170	120
	180	141
	190	168
	200	196
	220	246
	240	295
	260	343
	280	387
	300	432

Synonym: PCB 180
Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1999), 14(3), 197-211.

2,2',3,4,4',5,5'-Heptachlorobiphenyl ($C_{12}H_3Cl_7$; MW=395.32) **[H-3]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	38
	110	5.0	56
	120	5.0	73
	130	5.0	85
	140	5.0	100
	150	5.0	112
	160	5.0	126
	170	5.0	137

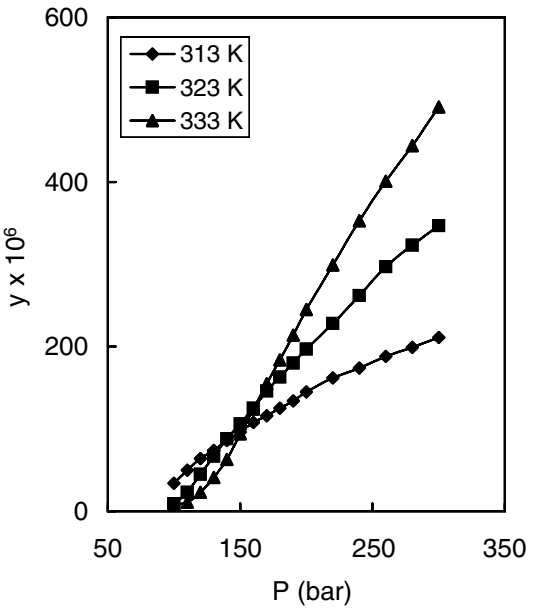
	180	5.0	147
	190	5.0	158
	200	5.0	171
	220	5.0	192
	240	5.0	205
	260	5.0	223
	280	5.0	236
	300	5.0	250
323	100	5.0	9
	110	5.0	25
	120	5.0	48
	130	5.0	71
	140	5.0	92
	150	5.0	114
	160	5.0	135
	170	5.0	158
	180	5.0	176
	190	5.0	196
	200	5.0	217
	220	5.0	257
	240	5.0	293
	260	5.0	329
	280	5.0	356
	300	5.0	380
333	100	5.0	8
	110	5.0	12
	120	5.0	26
	130	5.0	46
	140	5.0	71
	150	5.0	103
	160	5.0	136
	170	5.0	173
	180	5.0	201
	190	5.0	237
	200	5.0	275
	220	5.0	339
	240	5.0	390
	260	5.0	441
	280	5.0	482
	300	5.0	524



1: Cosolvent in CO_2.
Synonym: PCB 180
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,2',3,4,4',5,5'-Heptachlorobiphenyl ($C_{12}H_3Cl_7$; MW=395.32) **[H-4]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	34
	110	5.0	50
	120	5.0	64
	130	5.0	74
	140	5.0	86
	150	5.0	96
	160	5.0	108
	170	5.0	116
	180	5.0	125
	190	5.0	134
	200	5.0	145
	220	5.0	162
	240	5.0	174
	260	5.0	188
	280	5.0	199
	300	5.0	211
323	100	5.0	9
	110	5.0	23
	120	5.0	45
	130	5.0	67
	140	5.0	88
	150	5.0	106
	160	5.0	125
	170	5.0	146
	180	5.0	163
	190	5.0	180
	200	5.0	197
	220	5.0	228
	240	5.0	262
	260	5.0	297
	280	5.0	323
	300	5.0	347
333	100	5.0	8
	110	5.0	11
	120	5.0	23
	130	5.0	41
	140	5.0	63

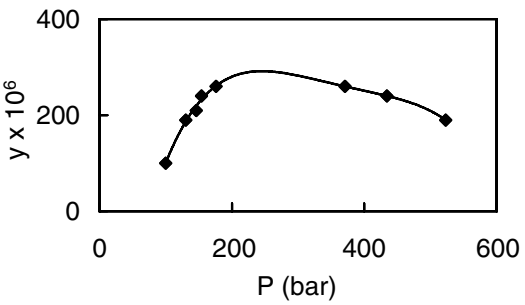


150	5.0	94
160	5.0	124
170	5.0	155
180	5.0	184
190	5.0	214
200	5.0	245
220	5.0	299
240	5.0	353
260	5.0	401
280	5.0	444
300	5.0	491

1: Cosolvent in CO_2.
Synonym: PCB 180
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Heptacosane ($C_{27}H_{56}$; MW=380.73) **[H-5]**

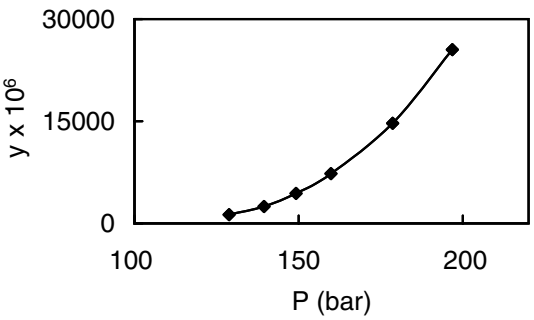
T (K)	P (bar)	y x 10^6
313	100	100
	130	190
	146	210
	154	240
	176	260
	371	260
	434	240
	523	190



Source: Furuya, T.; Teja, A. S. *J. Supercrit. Fluids* (2004), 29(3), 231-236.

Heptadecane ($C_{17}H_{36;}$ MW=240.47) **[H-6]**

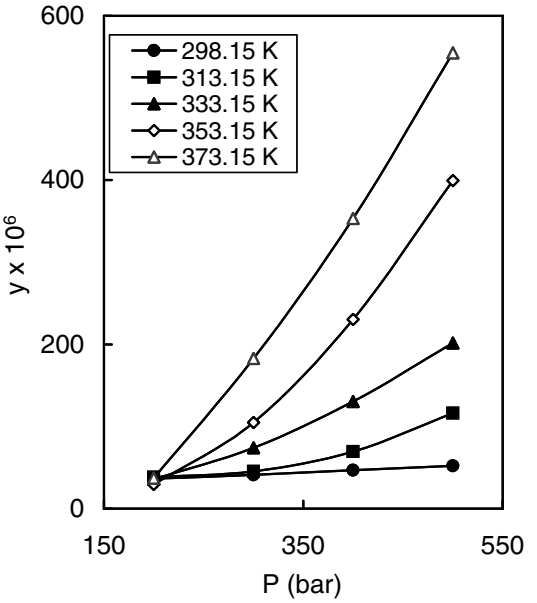
T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343	128.8	2.8	1300
	139.4	6.4	2500
	149.2	12.3	4400
	159.8	22.3	7300
	178.6	49.9	14700
	196.8	93.9	25500



1: Calculated from S.
Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.

Hexabromocyclododecane ($C_{12}H_{18}Br_6$; MW=641.73) **[H-7]**

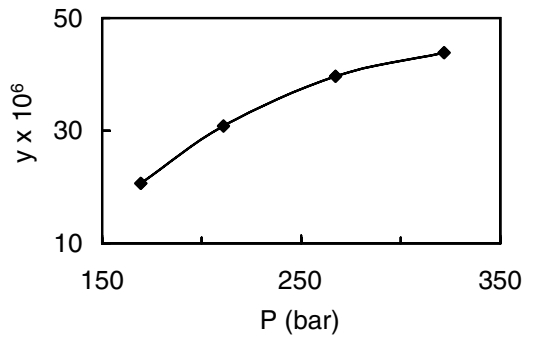
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
298.15	200	530	36
	300	600	41
	400	680	47
	500	760	52
313.15	200	560	38
	300	660	45
	400	1010	69
	500	1690	116
333.15	200	520	36
	300	1080	74
	400	1900	131
	500	2930	201
353.15	200	430	30
	300	1530	105
	400	3350	230
	500	5790	399
373.15	200	540	37
	300	2660	183
	400	5130	354
	500	8030	555



1: Calculated from w.
Source: Gamse, J.; Steinkellner, F.; Marr, R.; Alessi, P.; Kikic, I. *Ind. Eng. Chem. Res.* (2000), 39(12), 4888-4890.

Hexachlorobenzene (C_6Cl_6; MW=284.78) **[H-8]**

T[1)] (K)	P[2)] (bar)	y[1,3)] x 10^6
314	170	21
323	211	31
334	267	40
345	322	44

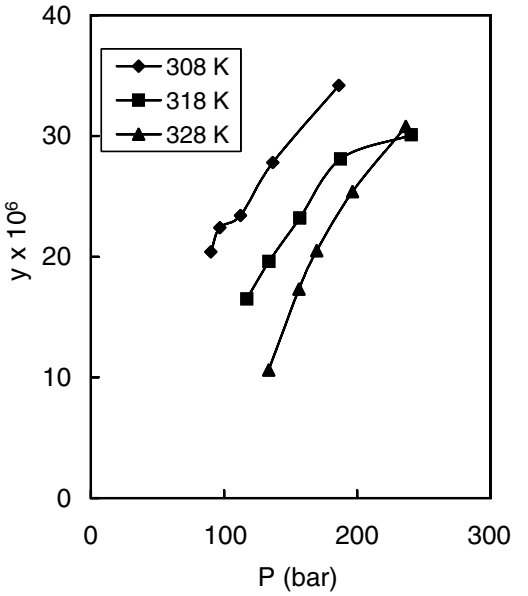


1:Obtained by digitizing the graph in the original article. May have large reading error as the original graph is small.
2: Calculated from temperature and density in the source graph.
3: Measured at a constant density (0.80 g/mL).
Synonyms: BHC; Perchlorobenzene
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

Hexachlorobenzene (C_6Cl_6; MW=284.78) **[H-9]**

T (K)	P (bar)	y x 10^6
308	90.0	20.4
	96.7	22.4
	112.4	23.4
	136.5	27.8
	186.2	34.2
318	117.2	16.5
	133.8	19.6
	156.9	23.2
	187.5	28.1
	240.6	30.1
328	133.4	10.6
	156.2	17.3
	169.6	20.5
	196.5	25.4
	236.5	30.8

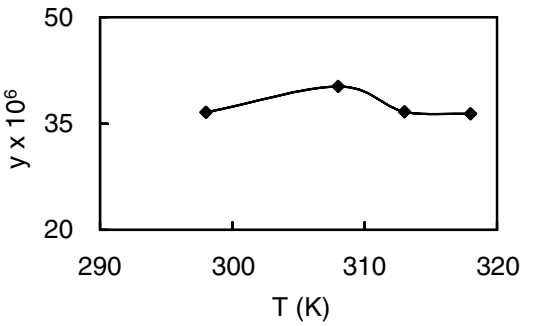
Synonyms: BHC; Perchlorobenzene
Source: Cross, W. J. ; Akgerman, A. *Ind. Eng. Chem. Res.* (1998), 37(4), 1510-1518.



Hexachlorobenzene (C_6Cl_6; MW=284.78) **[H-10]**

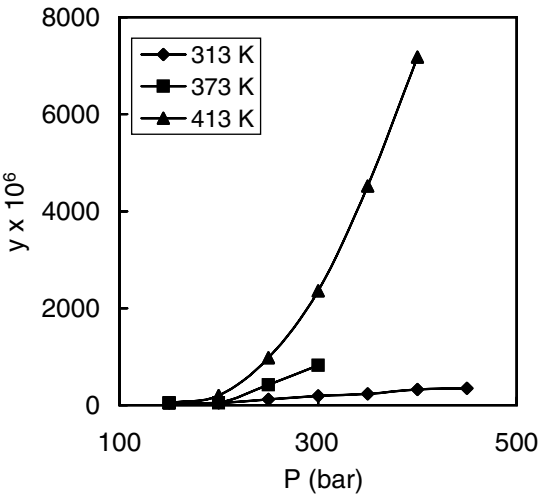
P (bar)	T (K)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
111.5	298	695	36.6
	308	685	40.2
	313	576	36.7
	318	509	36.4

1: Calculated from M.
Synonyms: BHC; Perchlorobenzene
Source: Madras, G.; Erkey, C.; Akgerman, A. *J. Chem. Eng. Data* (1993), 38(3), 422-423.



2,2',3,3',4,4'-Hexachlorobiphenyl ($C_{12}H_4Cl_6$; MW=360.88) **[H-11]**

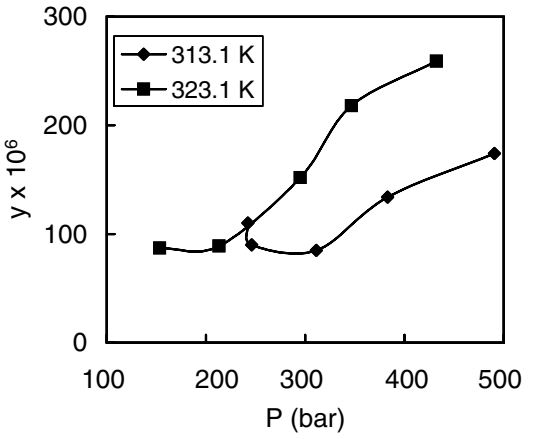
T (K)	P (bar)	y x 10^6
313	150	50
	200	50
	250	120
	300	195
	350	235
	400	325
	450	350
373	150	50
	200	50
	250	420
	300	820
413	150	50
	200	200
	250	980
	300	2360
	350	4520
	400	7180



Synonym: PCB 128
Source: Miller, D. J.; Hawthrone, S. B.; Clifford, A. A. *J. Supercrit. Fluids* (1997), 10(1), 57-63.

2,2',3,3',4,4'-Hexachlorobiphenyl ($C_{12}H_4Cl_6$; MW=360.88) **[H-12]**

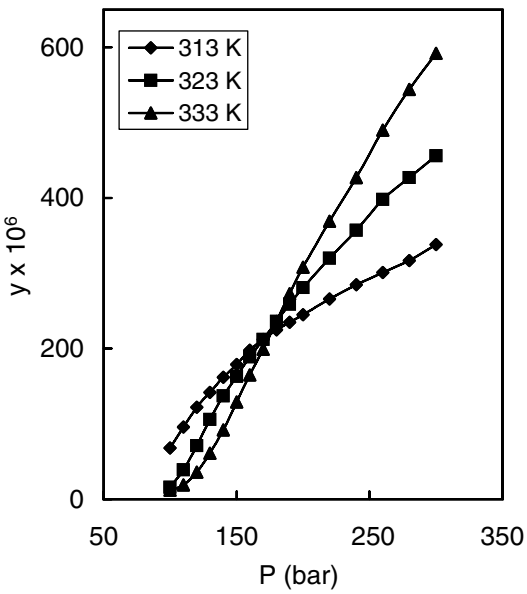
T (K)	P (bar)	y x 10^6
313.1	242.3	110
	245.9	90
	311.2	85
	383.1	134
	490.5	174
323.1	153.5	87
	213.1	89
	295.0	152
	346.6	218
	432.2	259



Synonym: PCB 128
Source: Yu, E.; Richter, M.; Chen, P.; Wang, X.; Tavlarides, L. L. *Ind. Eng. Chem. Res.* (1995), 34(1), 340-346.

2,2',4,4',5,5'-Hexachlorobiphenyl ($C_{12}H_4Cl_6$; MW=360.88) **[H-13]**

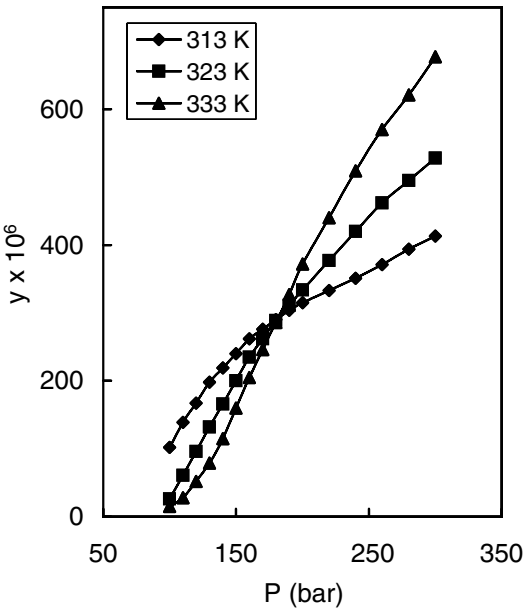
T (K)	P (bar)	y x 10^6
313	100	68
	110	96
	120	122
	130	142
	140	162
	150	179
	160	198
	170	212
	180	225
	190	235
	200	245
	220	266
	240	285
	260	301
	280	317
	300	338
323	100	16
	110	39
	120	71
	130	106
	140	137
	150	163
	160	189
	170	212
	180	236
	190	259
	200	281
	220	320
	240	357
	260	398
	280	427
	300	456
333	100	12
	110	19
	120	36
	130	61
	140	92
	150	129
	160	165
	170	199
	180	236
	190	273
	200	308
	220	369
	240	427
	260	490
	280	544
	300	592



Synonym: PCB 153
Source: Anitescu, G.; Tavlarides, L. L
J. Supercrit. Fluids (1999), 14(3), 197-211.

2,2',4,4',5,5'-Hexachlorobiphenyl ($C_{12}H_4Cl_6$; MW=360.88) **[H-14]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	102
	110	5.0	139
	120	5.0	167
	130	5.0	198
	140	5.0	219
	150	5.0	240
	160	5.0	262
	170	5.0	276
	180	5.0	290
	190	5.0	304
	200	5.0	315
	220	5.0	333
	240	5.0	351
	260	5.0	371
	280	5.0	394
	300	5.0	413
323	100	5.0	26
	110	5.0	61
	120	5.0	96
	130	5.0	132
	140	5.0	166
	150	5.0	200
	160	5.0	235
	170	5.0	262
	180	5.0	289
	190	5.0	311
	200	5.0	334
	220	5.0	377
	240	5.0	420
	260	5.0	462
	280	5.0	495
	300	5.0	528
333	100	5.0	15
	110	5.0	28
	120	5.0	52
	130	5.0	79
	140	5.0	115
	150	5.0	160
	160	5.0	205
	170	5.0	246
	180	5.0	286
	190	5.0	327
	200	5.0	372
	220	5.0	440

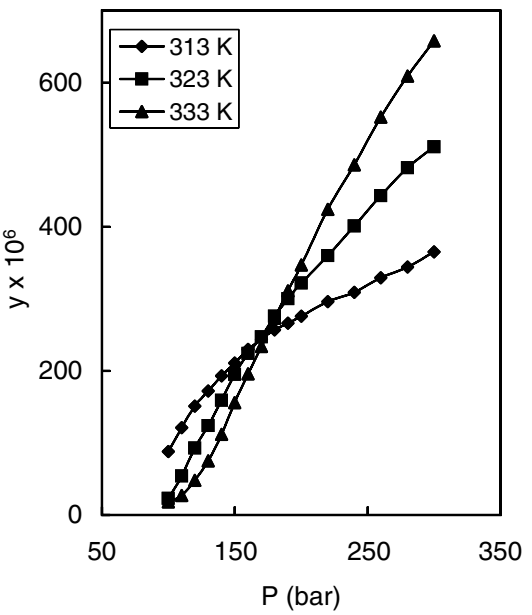


240	5.0	509
260	5.0	570
280	5.0	621
300	5.0	677

1: Cosolvent in CO_2.
Synonym: PCB 153
Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1999), 14(3), 197-211.

2,2',4,4',5,5'-Hexachlorobiphenyl ($C_{12}H_4Cl_6$; MW=360.88) **[H-15]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	88
	110	5.0	121
	120	5.0	151
	130	5.0	172
	140	5.0	193
	150	5.0	211
	160	5.0	230
	170	5.0	244
	180	5.0	257
	190	5.0	266
	200	5.0	276
	220	5.0	296
	240	5.0	309
	260	5.0	329
	280	5.0	344
	300	5.0	365
323	100	5.0	23
	110	5.0	54
	120	5.0	93
	130	5.0	124
	140	5.0	159
	150	5.0	195
	160	5.0	224
	170	5.0	247
	180	5.0	276
	190	5.0	300
	200	5.0	322
	220	5.0	360
	240	5.0	401
	260	5.0	443
	280	5.0	482
	300	5.0	511
333	100	5.0	18
	110	5.0	27
	120	5.0	48
	130	5.0	75
	140	5.0	112
	150	5.0	156

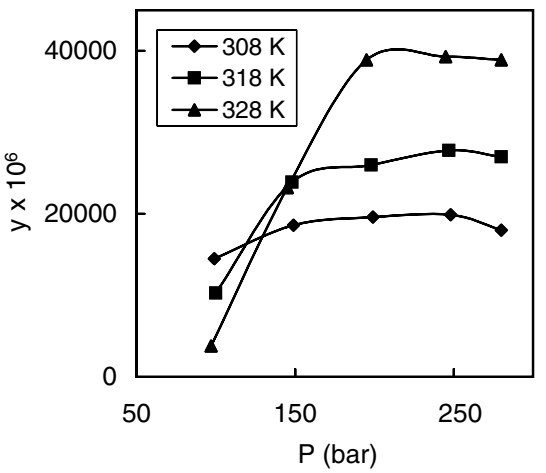


160	5.0	196
170	5.0	234
180	5.0	273
190	5.0	311
200	5.0	347
220	5.0	424
240	5.0	486
260	5.0	552
280	5.0	609
300	5.0	658

1: Cosolvent in CO_2.
Synonym: PCB 153
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Hexachloroethane (C_2Cl_6; MW=236.74) **[H-16]**

T (K)	P (bar)	y x 10^6
308	99	14500
	149	18600
	199	19600
	248	19900
	280	18000
318	100	10300
	148	23900
	198	26000
	247	27800
	280	27000
328	97	3790
	145	23200
	195	38900
	245	39300
	280	38900



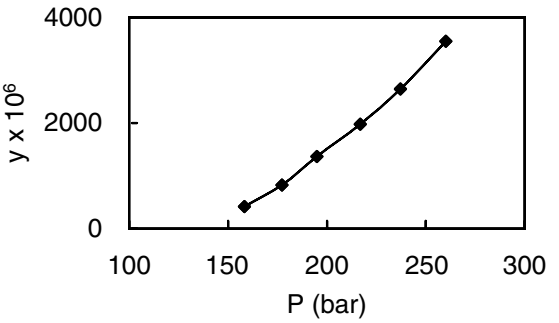
Synonym: Perchloroethane
Source: Kurnik, R. T.; Holla, S. J.; Reid, R. C. *J. Chem. Eng. Data* (1981), 26(1), 47-51.

Hexacosane ($C_{26}H_{54}$; MW=366.71) **[H-17]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343	158.3	1.91	419
	177.2	4.19	825
	194.9	7.42	1364
	216.9	11.44	1977
	237.1	15.99	2647
	260.1	22.28	3546

1: Calculated from S.

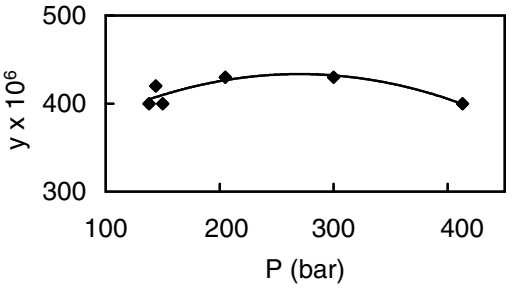
Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.



Hexacosane ($C_{26}H_{54}$; MW=366.71) **[H-18]**

T (K)	P (bar)	y x 10^6
313	138	400
	144	420
	150	400
	205	430
	300	430
	413	400

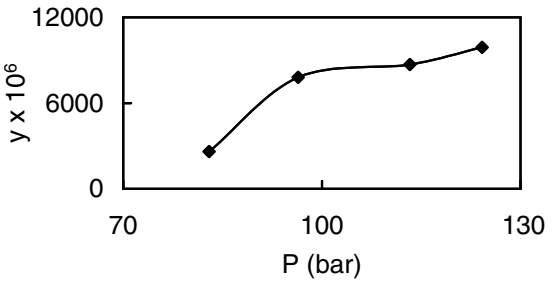
Source: Furuya, T.; Teja, A. S. *J. Supercrit. Fluids* (2004), 29(3), 231-236.



Hexadecane ($C_{16}H_{34}$; MW=226.44) **[H-19]**

T (K)	P (bar)	y x 10^6
344.15	83.0	2600
	96.4	7800
	113.3	8700
	124.2	9900

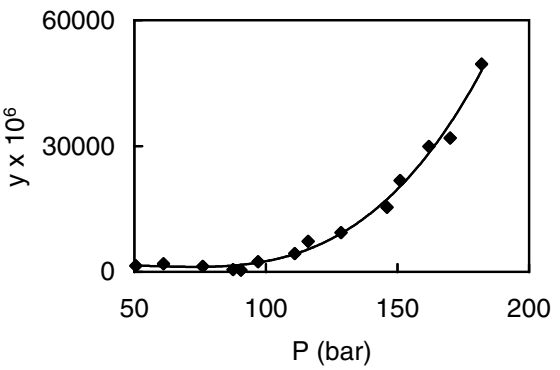
Source: Eustaquio-Rincon, R. ; Trejo, A. *Fluid Phase Equil.* (2001), 185(1-2), 231-239.



Hexadecane ($C_{16}H_{34}$; MW=226.44) **[H-20]**

T (K)	P (bar)	y[1)] x 10^6
333.15	50.6	1440
	61.1	1940
	76.0	1310
	87.5	563
	90.5	438
	97.0	2440
	111.0	4380
	116.0	7250
	128.5	9380
	146.0	15400
	151.0	21800
	162.0	29900
	170.0	31900
	182.0	49500

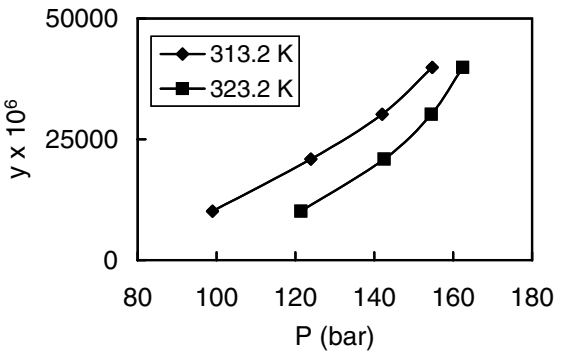
1: The data in the source have only one or two significant numbers, and therefore were refined using the graph in the authors' another paper: King, M. B.; Bott, T. R. *Sep. Sci. Tech.* (1982), 17(1), 119-150.
Source: King, M. B.; Kassim, K.; Bott, T. R.; Sheldon, J. R.; Mahmud, R. S. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 812-820.



Hexadecane ($C_{16}H_{34}$; MW=226.44) **[H-21]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
313.2	99.0	50000	10100
	123.9	99000	20900
	142.0	138000	30200
	154.7	176000	39900
323.2	121.4	50000	10100
	142.5	99000	20900
	154.5	138000	30200
	162.4	176000	39900

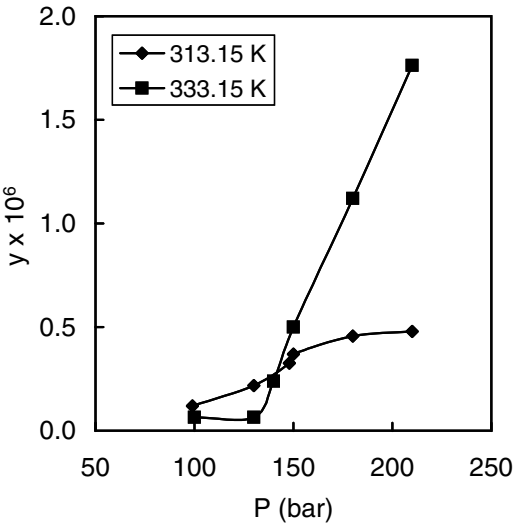
1: Calculated from w.
Source: Nieuwoudt, I.; du Rand, M. *J. Supercrit. Fluids* (2002), 22(3), 185-199.



4-(Hexadecylamino)-7-nitrobenz-2-oxa-1,3-diazole ($C_{22}H_{36}N_4O_3$; MW=404.55) **[H-22]**

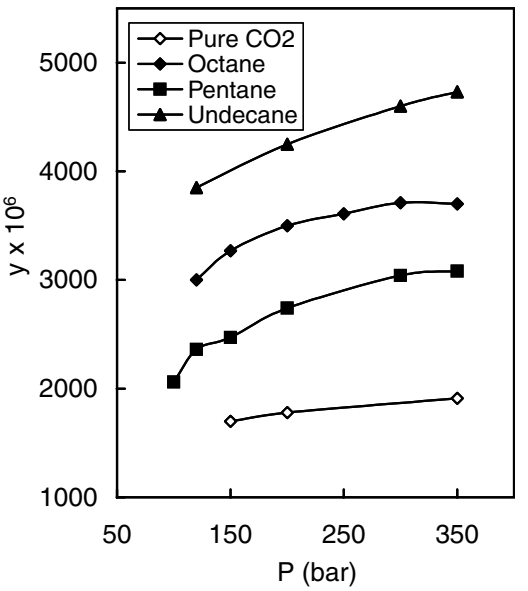
T (K)	P[1)] (bar)	w[1)] x 10^6	y[2)] x 10^6
313.15	99	1.1	0.12
	130	2.0	0.22
	148	3.0	0.33
	150	3.4	0.37
	180	4.2	0.46
	210	4.4	0.48
333.15	100	0.6	0.07
	130	0.6	0.07
	140	2.2	0.24
	150	4.6	0.50
	180	10.3	1.12
	210	16.2	1.76

1: Obtained by digitizing the graph in the original article. May have reading error of up to 10% as the original graph is small.
2: Calculated from w.
Synonyms: *N*-Hexadecyl-7-nitro-4-benzofurazanamine; NBD-HAD
Source: Wang, Y.; Yang, C.; Tomasko, D. *Ind. Eng. Chem. Res.*(2002), 41(7), 1780-1786.



Hexamethylbenzene ($C_{12}H_{18}$; MW=162.27) **[H-23]**

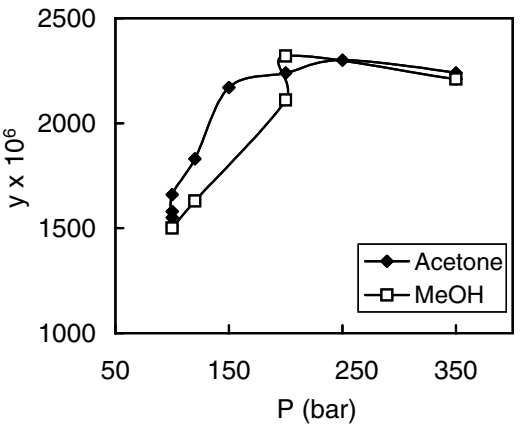
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.15	150	0.0	1700
	200	0.0	1780
	350	0.0	1910
		Octane	
	120	3.5	3000
	150	3.5	3270
	200	3.5	3500
	250	3.5	3610
	300	3.5	3710
	350	3.5	3700
		Pentane	
	100	3.5	2060
	120	3.5	2360
	150	3.5	2470
	200	3.5	2740
	300	3.5	3040
	350	3.5	3080
		Undecane	
	120	3.5	3850
	200	3.5	4250
	300	3.5	4600
	350	3.5	4730



Source: Dobbs, J. M.; Wong, J.; Johnston, K. P. *J. Chem. Eng. Data* (1986), 31(3), 303-308.

Hexamethylbenzene ($C_{12}H_{18}$; MW=162.27) **[H-24]**

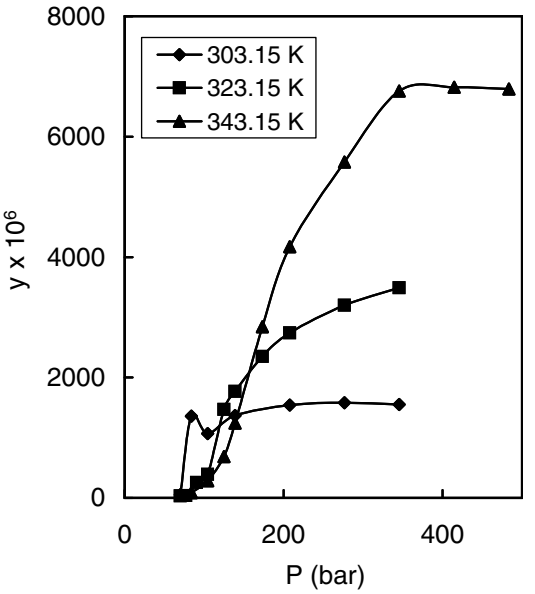
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetone	
308.15	100	3.5	1580
	100	3.5	1510
	100	3.5	1550
	100	3.5	1660
	120	3.5	1830
	150	3.5	2170
	200	3.5	2240
	250	3.5	2300
	350	3.5	2240
	350	3.5	2210
		Methanol	
	100	3.5	1500
	120	3.5	1630
	200	3.5	2110
	200	3.5	2320
	350	3.5	2210



Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.

Hexamethylbenzene ($C_{12}H_{18}$; MW=162.27) **[H-25]**

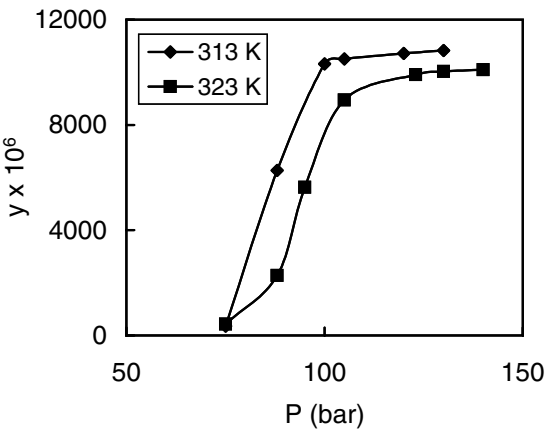
T (K)	P(bar)	y x 10^6
303.15	69.9	55
	83.7	1360
	104.3	1070
	138.8	1370
	207.7	1540
	276.7	1580
	345.6	1550
323.15	69.9	35
	76.8	40
	90.5	258
	104.3	390
	125.0	1470
	138.8	1770
	173.3	2350
	207.7	2740
	276.7	3200
	345.6	3490
343.15	83.7	87
	104.3	285
	125.0	685
	138.8	1240
	173.3	2840
	207.7	4170
	276.7	5580
	345.6	6760
	414.5	6820
	483.5	6790



Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.* (1982), 21(3), 191-197.

Hexanoic acid ($C_6H_{12}O_2$; MW=116.16) **[H-26]**

T (K)	P (bar)	y x 10^6
313	75	350
	88	6270
	100	10320
	105	10510
	120	10720
	130	10830
323	75	430
	88	2280
	95	5630
	105	8950
	123	9910
	130	10030
	140	10100

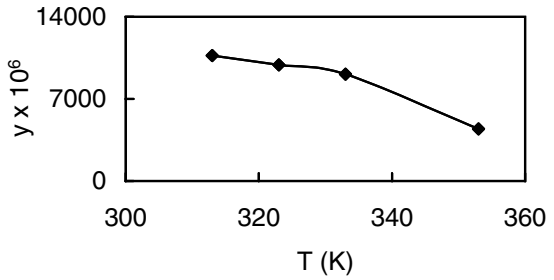


Synonyms: Caproic acid; 1-Hexanoic acid
Source: Ghaziaskar, H. S.; Nikravesh, M. *Fluid Phase Equil.* (2003), 206(1-2), 215-221.

Hexanoic acid ($C_6H_{12}O_2$; MW=116.16) **[H-27]**

P (bar)	T (K)	y x 10^6
123	313	10700
	323	9910
	333	9100
	353	4450

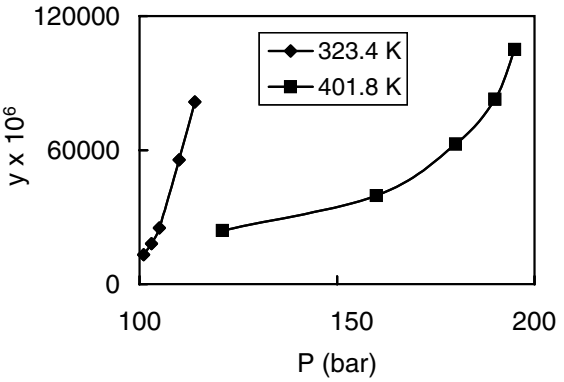
Synonyms: Caproic acid; 1-Hexanoic acid
Source: Ghaziaskar, H. S.; Nikravesh, M. *Fluid Phase Equil.* (2003), 206(1-2), 215-221.



1-Hexanol ($C_6H_{14}O$; MW=102.17) **[H-28]**

T (K)	P (bar)	S (g/L)	y[1] x 10^6
323.4	101	12.4	13200
	103	18.1	18100
	105	26.7	25100
	110	69.0	55700
	114	111.5	81500
401.8	121	11.6	24000
	160	27.6	39600
	180	51.8	62700
	190	74.5	82800
	195	99.5	105000

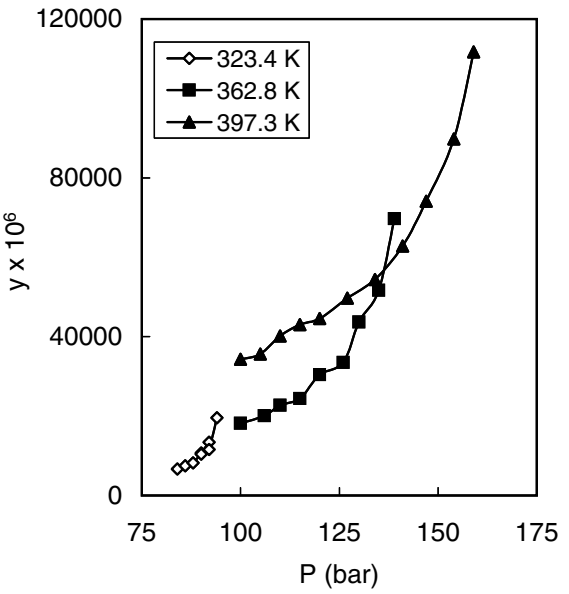
1: Calculated from S.
Synonym: *n*-Hexyl alcohol
Source: Nickel, D.; Schneider, G. M. *J. Chem. Thermodyn.* (1989), 21(3), 293-305.



3-Hexanol ($C_6H_{14}O$; MW=102.17) **[H-29]**

T (K)	P (bar)	S (g/L)	y[1,2] x 10^6
323.4	84.0	3.8	6670
	86.0	4.5	7490
	88.0	5.2	8200
	90.0	7.2	10700
	90.0	7.0	10400
	92.0	9.6	13400
	92.0	8.3	11600
	94.0	14.9	19600

362.8	100.0	8.8	18200
	106.0	10.6	20100
	110.0	12.7	22700
	115.0	14.6	24400
	120.0	19.5	30400
	126.0	23.2	33500
	130.0	32.1	43700
	135.0	40.6	51700
	139.0	58.3	69700
397.3	100.0	13.6	34300
	105.0	15.0	35600
	110.0	18.0	40200
	115.0	20.4	43000
	120.0	22.4	44600
	127.0	26.9	49700
	134.0	31.7	54400
	141.0	39.4	62800
	147.0	*49.6*	*74090*
	154.0	*64.9*	*89800*
	159.0	*86.1*	*111700*

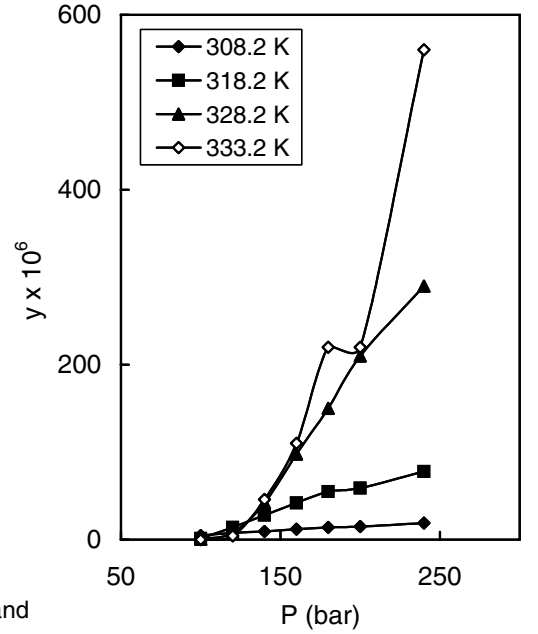


1: Calculated from S.
2: The solubility data *in italics* at 397.3 K are one order of magnitude smaller than the actual in the original article and therefore are corrected based on Friedrich's original thesis.
Source: Friedrich, J.; Schneider, G. M. *J. Chem. Thermodyn.* (1989), 21(3), 307-319.

Hexatriacontane ($C_{36}H_{74}$; MW=506.97) **[H-30]**

T (K)	P (bar)	$y^{1)} \times 10^6$
308.2	100	4.8
	120	7.8
	140	9.2
	160	12.0
	180	14.0
	200	15.0
	240	19.0
318.2	100	1.2
	120	14.0
	140	28.0

	160	42.0
	180	55.0
	200	59.0
	240	78.0
328.2	100	0.2
	120	7.8
	140	42.0
	160	98.0
	180	150.0
	200	210.0
	240	290.0
333.2	100	0.1
	120	4.4
	140	46.0
	160	110.0
	180	220.0
	200	220.0
	240	560.0



1: Only the data at 200 and 240 bar at 318.2 K, and at 160 and 200 bar at 333.2 K are experimental ones. All the other data (in italics) are the extrapolated values in the original article.

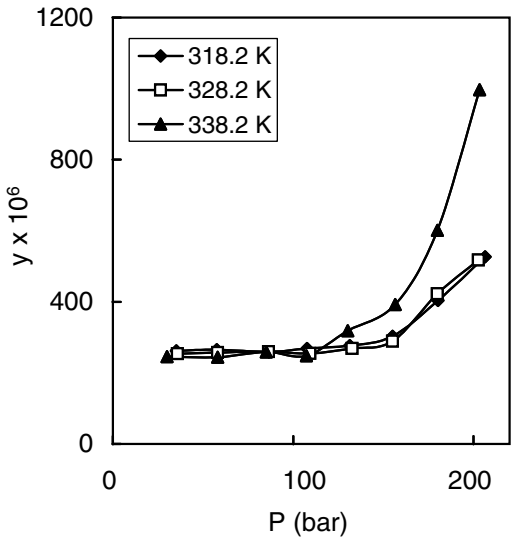
Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Hexatriacontane ($C_{36}H_{74}$; MW=506.97) **[H-31]**

T (K)	P (bar)	y x 10^6
318.2	35.2	262
	57.7	265
	86.5	259
	107.6	269
	131.4	277
	155.1	303
	180.3	404
	206.5	527

328.2	35.9	254
	58.1	257
	86.4	260
	109.3	255
	132.7	269
	155.1	289
	180.0	423
	202.7	518
338.2	30.0	246
	58.1	244
	85.0	259
	107.4	248
	130.3	319
	156.5	392
	180.0	601
	203.4	997

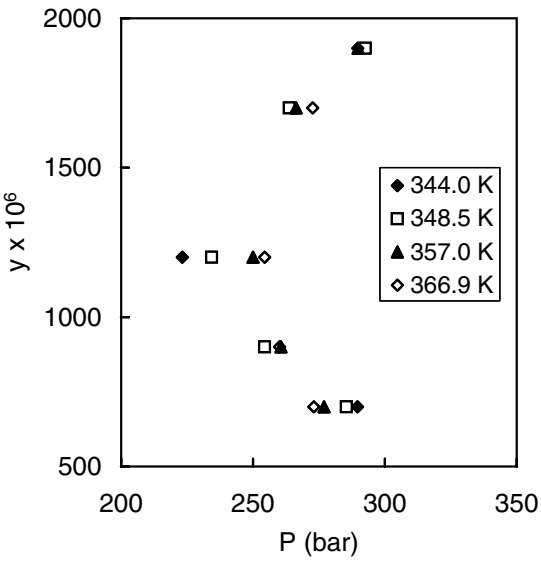
Source: Yau, J. S.; Tsai, F. N.
J. Chem. Eng. Data (1993), 38(2), 171-174.



Hexatriacontane ($C_{36}H_{74}$; MW=506.97) **[H-32]**

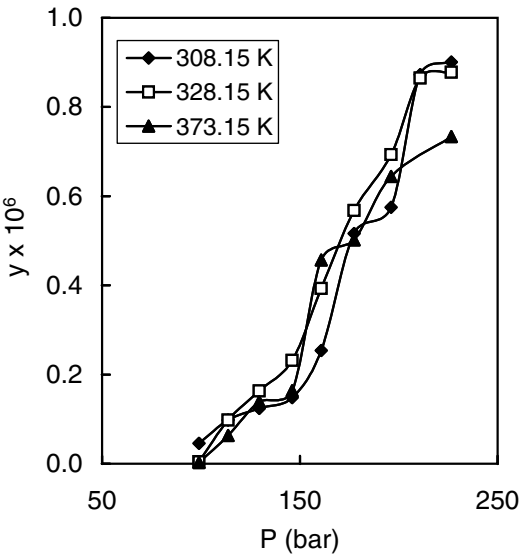
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
344.0	223.2	14000	1200
	289.6	8000	700
348.5	234.3	14000	1200
	254.4	10000	900
	263.8	19000	1700
	285.4	8000	700
	292.6	22000	1900
357.0	250.0	14000	1200
	260.6	10000	900
	266.3	19000	1700
	276.9	22000	700
	289.8	8000	1900
366.9	254.4	14000	1200
	260.0	10000	900
	272.6	19000	1700
	273.1	22000	700
	289.7	8000	1900

1: Calculated from w.
Source: Nieuwoudt, I.; du Rand, M.
J. Supercrit. Fluids (2002), 22(3), 185-199.



Hydrocortisone ($C_{21}H_{30}O_5$; MW=362.46) **[H-33]**

T (K)	P (bar)	y x 10^6
308.15	99.0	0.046
	113.8	0.098
	129.4	0.124
	146.1	0.148
	160.8	0.254
	177.5	0.516
	196.1	0.575
	210.8	0.873
	226.5	0.901
328.15	99.0	0.004
	113.8	0.098
	129.4	0.163
	146.1	0.232
	160.8	0.393
	177.5	0.568
	196.1	0.693
	210.8	0.865
	226.5	0.878
373.15	99.0	0.003
	113.8	0.063
	129.4	0.139
	146.1	0.164
	160.8	0.457
	177.5	0.502
	196.1	0.644
	226.5	0.734

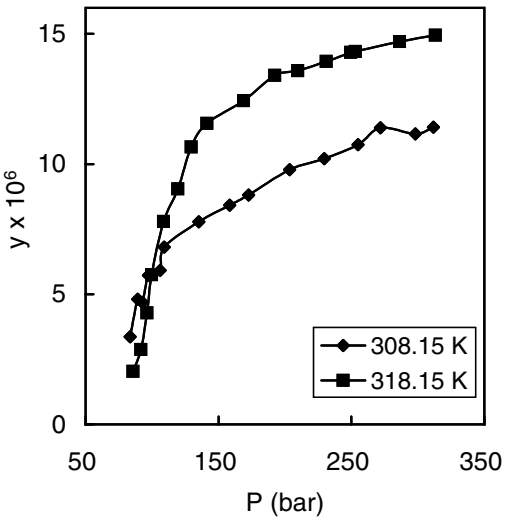


Synonyms: Cortisol; 11β, 17α, 21-Trihydroxypregn-4-ene-3,20-dione
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Hydroquinone ($C_6H_6O_2$; MW=110.11) **[H-34]**

T (K)	P (bar)	y x 10^6
308.15	83.6	3.36
	89.2	4.81
	92.7	4.69
	97.4	5.72
	106.1	5.91
	109.1	6.81
	135.2	7.78
	158.3	8.42
	172.7	8.81

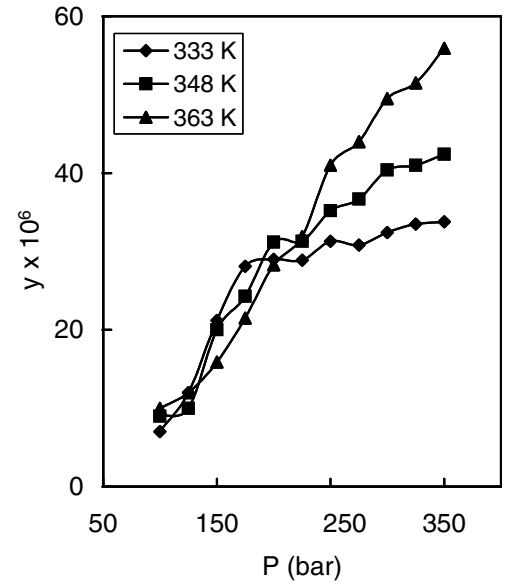
	203.4	9.78
	229.6	10.21
	255.0	10.74
	271.8	11.39
	298.2	11.16
	311.6	11.42
318.15	85.7	2.04
	91.6	2.87
	96.2	4.28
	99.8	5.75
	108.6	7.79
	119.4	9.05
	129.5	10.65
	141.4	11.56
	168.8	12.43
	192.4	13.41
	209.7	13.58
	231.2	13.94
	249.4	14.29
	253.1	14.32
	286.3	14.70
	313.3	14.95



Synonym: 1,4-Benzenediol
Source: Coutsikos, P.; Magoulas, K.; Tassios, D. *J. Chem. Eng. Data* (1995), 40(4), 953-958.

Hydroquinone ($C_6H_6O_2$; MW=110.11) **[H-35]**

T (K)	P (bar)	y x 10^6
333	100	7.0
	125	12.0
	150	21.2
	175	28.1
	200	29.0
	225	28.9
	250	31.3
	275	30.8
	300	32.4
	325	33.5
	350	33.8
348	100	9.0
	125	10.0
	150	20.0
	175	24.3
	200	31.2
	225	31.3
	250	35.2
	275	36.7
	300	40.4
	325	41.0
	350	42.4

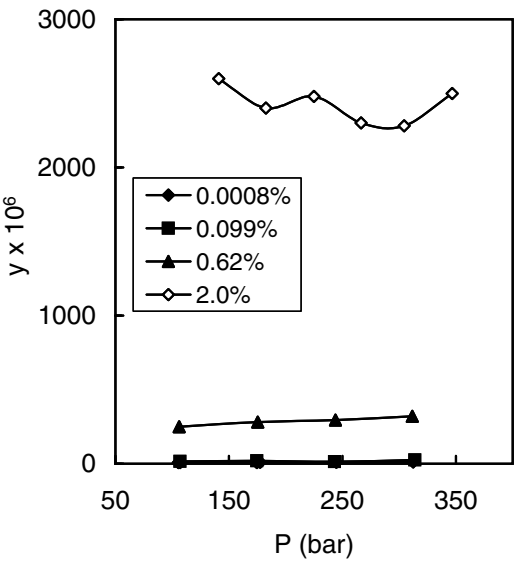


363	100	10.0
	125	12.0
	150	15.9
	175	21.5
	200	28.3
	225	31.9
	250	41.0
	275	44.0
	300	49.5
	325	51.5
	350	55.9

Synonym: 1,4-Benzenediol
Source: Garcia-Gonzalez, J.; Molina, M. J.; Rodriguez, F.; Mirada, F. *Fluid Phase Equil.* (2002), 200(1), 31-39.

Hydroquinone ($C_6H_6O_2$; MW=110.11) **[H-36]**

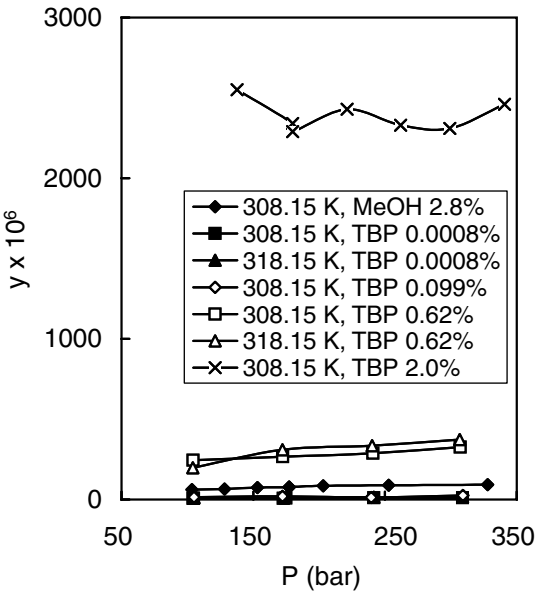
T (K)	P[1] (bar)	TBP[2] (mol%)	$y^{1)} \times 10^6$
308.15	105	0.0008	6.9
	107	0.0008	7.8
	175	0.0008	8.0
	178	0.0008	9.8
	245	0.0008	10.0
	312	0.0008	10.9
	107	0.099	16.0
	175	0.099	20.0
	243	0.099	14.0
	314	0.099	26.0
	106	0.62	250.0
	175	0.62	280.0
	244	0.62	295.0
	312	0.62	320.0
	141	2.0	2600.0
	183	2.0	2400.0
	225	2.0	2480.0
	266	2.0	2300.0
	304	2.0	2280.0
	347	2.0	2500.0



1: Obtained by digitizing the graph in the original article.
2: Tributyl phosphate as a cosolvent in CO_2.
Synonym: 1,4-Benzenediol
Source: Johnston, K.P.; McFann, G. J.; Peck, D. G.; Lemert, R. M. *Fluid Phase Equil.* (1989), 52, 337-346.

Hydroquinone ($C_6H_6O_2$; MW=110.11) **[H-37]**

T (K)	P (bar)	Cosolvent[1)] (%)	y x 10^6
		Methanol	
308.15	103.4	2.8	62.2
	128.1	2.8	65.7
	153.2	2.8	73.6
	177.2	2.8	76.3
	177.2	2.8	77.4
	203.0	2.8	84.3
	252.9	2.8	88.1
	327.8	2.8	92.2
		TBP	
308.15	104.4	0.0008	7.87
	104.8	0.0008	6.66
	172.8	0.0008	8.14
	174.8	0.0008	9.90
	241.5	0.0008	10.80
	308.8	0.0008	11.20
318.15	105.1	0.0008	11.0
	173.5	0.0008	12.4
	241.5	0.0008	15.0
	308.8	0.0008	16.8
308.15	105.1	0.099	15.1
	172.1	0.099	19.2
	239.5	0.099	13.5
	309.2	0.099	25.8
308.15	104.4	0.62	244
	172.4	0.62	266
	240.8	0.62	288
	307.1	0.62	326
318.15	104.1	0.62	198
	172.1	0.62	309
	240.1	0.62	336
	306.8	0.62	374
308.15	137.8	2.0	2550
	179.9	2.0	2340
	179.9	2.0	2290
	221.1	2.0	2430
	261.9	2.0	2330
	299.3	2.0	2310
	340.8	2.0	2460



1: Solute-free basis.

Synonym: 1,4-Benzenediol

Source: Lemert, R. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1991), 30(6), 1222-1231.

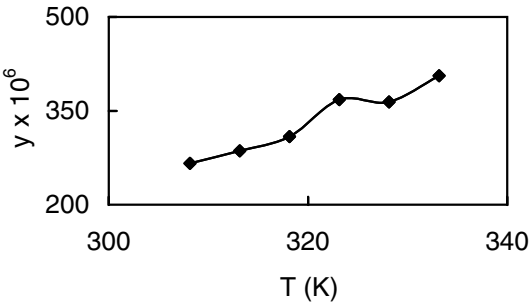
Hydroquinone ($C_6H_6O_2$; MW=110.11) **[H-38]**

P (bar)	T (K)	TBP[1)] (mol%)	y x 10^6
175.1	308.15	0.62	266
	313.15	0.62	286
	318.15	0.62	309
	323.15	0.62	368
	328.15	0.62	364
	333.15	0.62	406

1:Tri-*n*-butyl phosphate as a cosolvent in CO_2 on a solute-free basis.

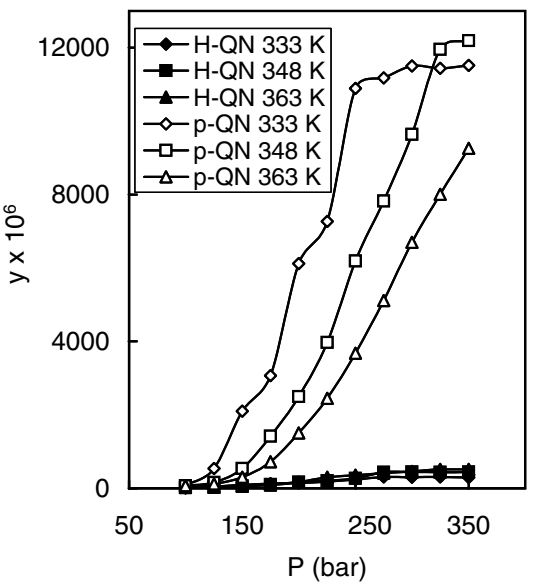
Synonym: 1,4-Benzenediol

Source: Lemert, R. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1991), 30(6), 1222-1231.



Hydroquinone(1) + *p*-Quinone(2) Mixture[1)] **[H-39]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
333	100	10.0	70
	125	38.0	540
	150	92.0	2100
	175	127.5	3070
	200	146.5	6120
	225	180.9	7270
	250	237.3	10890
	275	310.8	11180
	300	297.4	11500
	325	309.7	11440
	350	296.3	11520
348	100	12.4	70
	125	29.6	160
	150	67.2	540
	175	104.8	1420
	200	163.6	2500
	225	205.7	3970
	250	271.7	6190
	275	439.4	7820
	300	445.1	9640
	325	437.4	11950
	350	441.9	12190
363	100	24.5	70
	125	30.1	120
	150	52.8	300

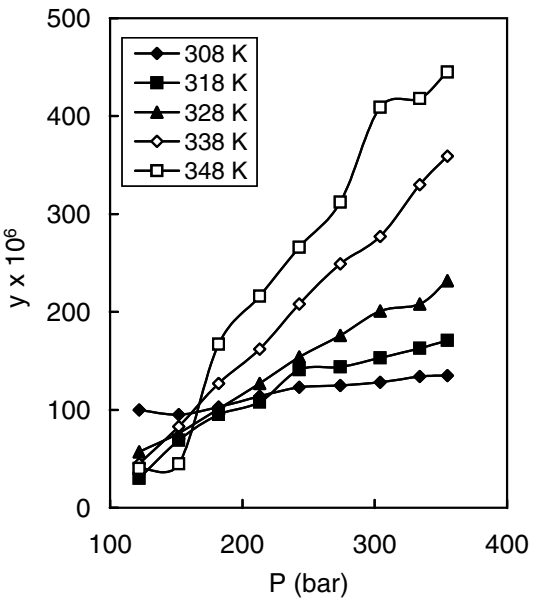


175	90.5	720
200	163.0	1510
225	298.0	2450
250	358.0	3680
275	411.0	5110
300	462.0	6700
325	516.2	8010
350	511.9	9260

1: Solubility was measured from an equimolar mixture of hydroquinone and *p*-quinone.
Source: Garcia-Gonzalez, J.; Molina, M. J.; Rodriguez, F.; Mirada, F. *Fluid Phase Equil.* (2002), 200(1), 31-39.

1-Hydroxyanthraquinone ($C_{14}H_8O_3$; MW=224.21) **[H-40]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.39	100
	152	0.40	95
	182	0.45	103
	213	0.51	114
	243	0.56	123
	274	0.58	125
	304	0.61	128
	334	0.65	134
	355	0.66	135
318	122	0.10	30
	152	0.26	69
	182	0.38	95
	213	0.45	108
	243	0.61	141
	274	0.64	144
	304	9.69	153
	334	0.75	163
	355	0.80	171
328	122	0.15	57
	152	0.26	76
	182	0.37	101
	213	0.50	127
	243	0.63	154
	274	0.74	176
	304	0.87	201
	334	0.93	208
	355	1.04	232

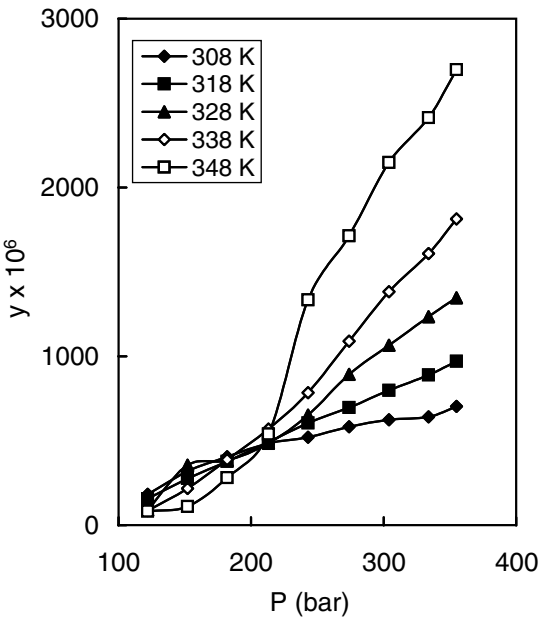


338	122	0.09	45
	152	0.24	83
	182	0.42	127
	213	0.59	162
	243	0.80	208
	274	1.00	249
	304	1.14	277
	334	1.40	330
	355	1.55	359
348	122	0.07	40
	152	0.11	45
	182	0.50	167
	213	0.72	216
	243	0.95	266
	274	1.18	312
	304	1.61	409
	334	1.70	418
	355	1.84	445

Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-2-(1-butoxymethyl)anthraquinone ($C_{19}H_{18}O_4$; MW=310.34) **[H-41]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	1.00	183
	152	1.84	319
	182	2.43	406
	213	3.00	485
	243	3.30	521
	274	3.77	583
	304	4.11	625
	334	4.28	641
	355	4.74	703
318	122	0.73	157
	152	1.45	276
	182	2.11	378
	213	2.86	491
	243	3.64	606
	274	4.30	696
	304	5.03	798
	334	5.71	890
	355	6.29	971
328	122	0.33	90
	152	1.64	355
	182	1.96	382
	213	2.64	485
	243	3.69	651
	274	5.24	893
	304	6.41	1066
	334	7.59	1234
	355	8.39	1346

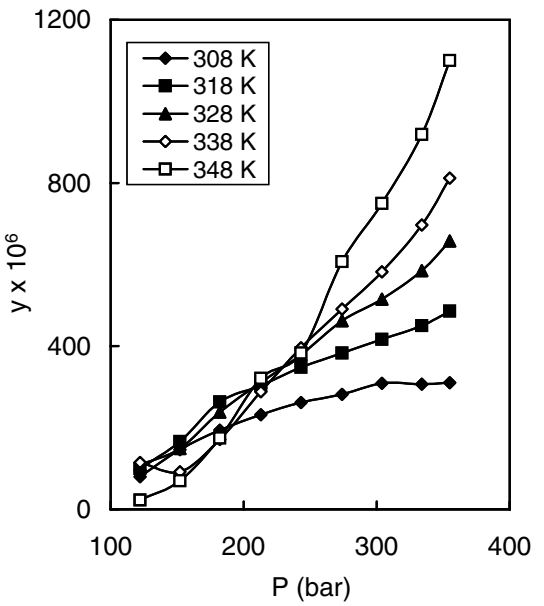


338	122	0.24	87
	152	0.86	218
	182	1.79	388
	213	2.86	569
	243	4.18	785
	274	6.04	1090
	304	7.92	1383
	334	9.47	1609
	355	10.85	1814
348	122	0.19	82
	152	0.37	110
	182	1.16	281
	213	2.48	540
	243	6.61	1334
	274	8.94	1714
	304	11.70	2148
	334	13.55	2414
	355	15.44	2699

Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-2-(ethoxymethyl)anthraquinone ($C_{17}H_{14}O_4$; MW=282.29) **[H-42]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.40	80
	152	0.77	146
	182	1.06	194
	213	1.30	232
	243	1.51	262
	274	1.66	282
	304	1.84	309
	334	1.86	307
	355	1.90	310
318	122	0.42	100
	152	0.79	166
	182	1.34	263
	213	1.60	303
	243	1.90	348
	274	2.15	383
	304	2.39	417
	334	2.63	450
	355	2.86	486
328	122	0.36	109
	152	0.63	149
	182	1.11	238
	213	1.54	311
	243	1.95	379
	274	2.47	462
	304	2.82	515
	334	3.27	585
	355	3.73	658

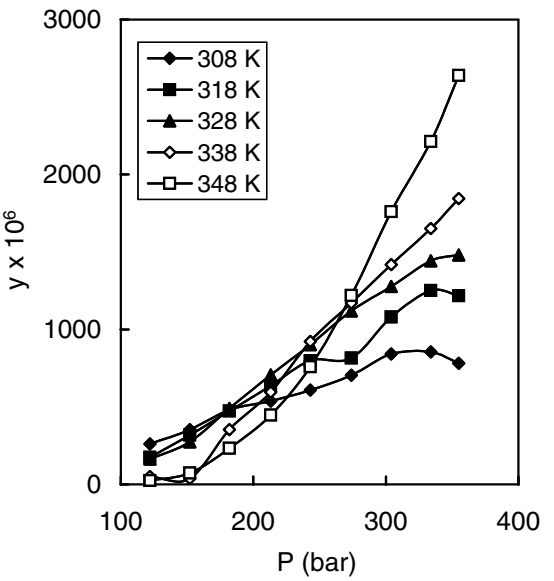


338	122	0.29	115
	152	0.33	92
	182	0.72	171
	213	1.32	288
	243	1.92	396
	274	2.48	491
	304	3.03	582
	334	3.73	697
	355	4.42	812
348	122	0.05	23
	152	0.21	70
	182	0.66	175
	213	1.34	321
	243	2.17	383
	274	2.88	607
	304	3.71	750
	334	4.69	919
	355	5.73	1100

Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-2-(isobutoxymethyl)anthraquinone[1] ($C_{19}H_{18}O_4$; MW=310.34) **[H-43]**

T (K)	P (bar)	S (g/L)	$y^{2)} \times 10^6$
308	122	1.42	261
	152	2.04	353
	182	2.88	480
	213	3.32	537
	243	3.85	608
	274	4.55	704
	304	5.52	841
	334	5.70	854
	355	5.27	782
318	122	0.81	174
	152	1.67	317
	182	2.65	474
	213	3.71	637
	243	4.80	799
	274	5.03	815
	304	6.80	1080
	334	8.04	1252
	355	7.89	1217
328	122	0.60	164
	152	1.27	274
	182	2.52	491
	213	3.84	706
	243	5.12	902
	274	6.56	1120
	304	7.68	1277
	334	8.87	1442
	355	9.23	1480



338	122	0.14	51
	152	0.55	38
	182	1.63	353
	213	2.99	596
	243	4.91	923
	274	6.49	1170
	304	8.13	1419
	334	9.72	1652
	355	11.03	1844
348	122	0.06	25
	152	0.25	74
	182	0.96	233
	213	2.06	447
	243	3.76	759
	274	6.37	1220
	304	9.58	1760
	334	12.43	2213
	355	15.10	2640

1: The compound name is corrected based on the structure and molecular weight shown in Figure 1 of the source.

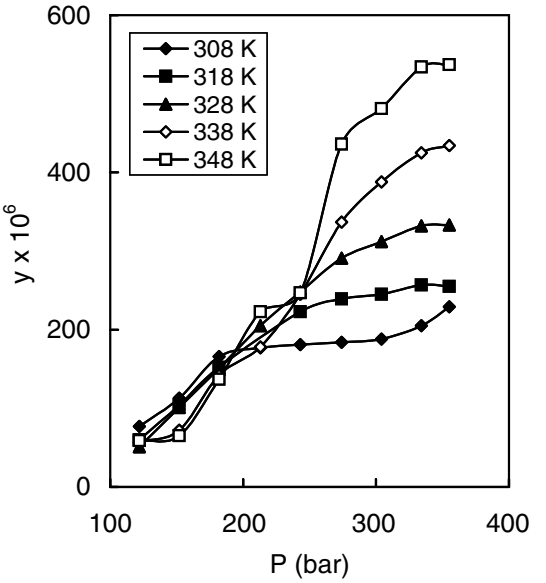
2: The mole fraction solubility (y x 10^4) at 318 K and 304 bar was mistyped to 1.80 in the source table and thus was corrected based on S in the same source.

Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-2-(methoxymethyl)anthraquinone ($C_{16}H_{12}O_4$; MW=268.26) **[H-44]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.36	77
	152	0.57	113
	182	0.86	166
	213	0.94	177
	243	0.99	181
	274	1.03	184
	304	1.07	188
	334	1.18	205
	355	1.34	229
318	122	0.24	60
	152	0.47	104
	182	0.73	152
	243	1.16	223
	274	1.28	239
	304	1.34	245
	334	1.43	257
	355	1.43	255
328	122	0.16	51
	152	0.40	101
	182	0.67	151
	213	0.96	205
	243	1.22	248

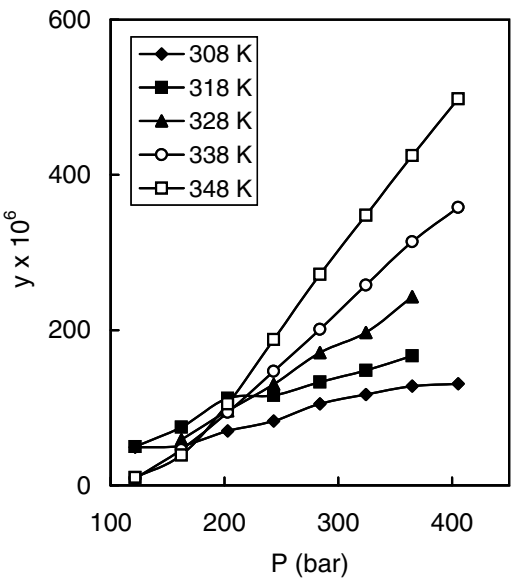
	274	1.48	291
	304	1.62	312
	334	1.76	332
	355	1.79	333
338	122	0.14	57
	152	0.25	72
	182	0.57	142
	213	0.77	178
	243	1.13	245
	274	1.62	337
	304	1.92	388
	334	2.16	425
	355	2.24	434
348	122	0.12	59
	152	0.19	65
	182	0.49	137
	213	0.89	223
	243	1.06	247
	274	1.96	436
	304	2.26	481
	334	2.59	534
	355	2.65	537



Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-4-(prop-2-enyloxy)anthraquinone ($C_{17}H_{12}O_4$; MW=280.27) **[H-45]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	0.24	49
	162.1	0.27	51
	202.7	0.39	70
	243.2	0.47	83
	283.7	0.62	105
	324.2	0.71	117
	364.8	0.78	128
	405.3	0.81	131
318	121.6	0.27	50
	162.1	0.54	75
	202.7	0.66	112
	243.2	0.72	116
	283.7	0.85	133
	324.2	0.97	148
	364.8	1.13	167
328	162.1	0.26	59
	202.7	0.47	96
	243.2	0.67	130
	283.7	0.91	171
	324.2	1.08	197
	364.8	1.37	243

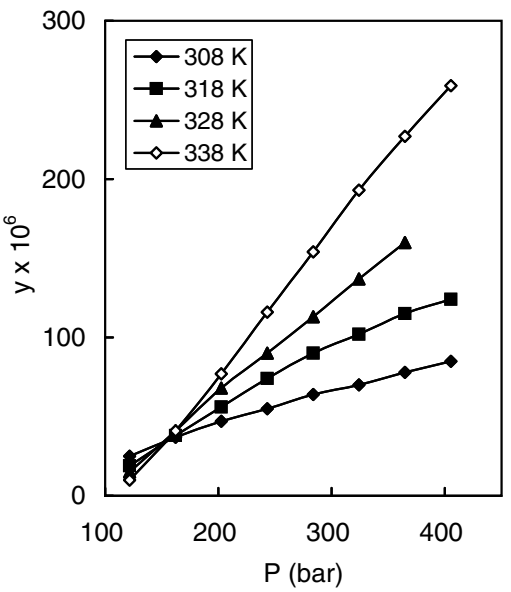


338	121.6	0.02	9
	162.1	0.18	46
	202.7	0.41	94
	243.2	0.71	147
	283.7	1.20	201
	324.2	1.36	258
	364.8	1.71	314
	405.3	1.99	358
348	121.6	0.02	10
	162.1	0.13	39
	202.7	0.42	105
	243.2	0.84	188
	283.7	1.30	272
	324.2	1.75	348
	364.8	2.22	425
	405.3	2.67	498

Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (1998), 43(3), 400-402.

1-Hydroxy-8-(prop-2-enyloxy)anthraquinone ($C_{17}H_{12}O_4$; MW=280.27) **[H-46]**

T (K)	P (bar)	S (g/m^3)	y[1)] x 10^6
308.15	122	121	25
	162	199	37
	203	264	47
	243	314	55
	284	377	64
	324	426	70
	365	478	78
	405	531	85
318.15	122	82	19
	162	187	38
	203	290	56
	243	399	74
	284	504	90
	324	590	102
	365	677	115
	405	745	124
328.15	122	50	15
	162	178	41
	203	328	68
	243	463	90
	284	604	113
	324	754	137
	365	907	160
338.15	122	26	10
	162	155	41
	203	340	77

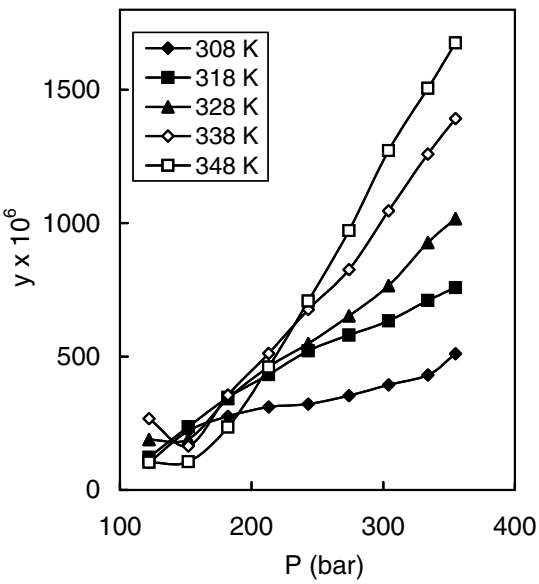


243	556	116
284	778	154
324	1017	193
365	1238	227
405	1446	259

1: The magnitude (x 10^4) of y in the original table must have been misprinted and thus was corrected to "x 10^5" based on S.
Source: Fat'hi, M. R.; Yamini, Y.; Sharghi, H.; Shamsipur, M. *Talanta* (1999), 48(4), 951-957.

1-Hydroxy-2-(1-propoxymethyl)anthraquinone ($C_{18}H_{16}O_4$; MW=296.32) **[H-47]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.53	103
	152	1.21	221
	182	1.58	276
	213	1.84	311
	243	1.95	322
	274	2.18	353
	304	2.47	394
	334	2.75	431
	355	3.29	511
318	122	0.54	122
	152	1.19	237
	182	1.85	347
	213	2.40	432
	243	2.99	521
	274	3.42	580
	304	3.81	634
	334	4.35	710
	355	4.69	758
328	122	0.66	189
	152	0.85	191
	182	1.68	343
	213	2.39	461
	243	2.97	549
	274	3.65	652
	304	4.40	766
	334	5.44	927
	355	6.06	1017
338	122	0.71	267
	152	0.62	165
	182	1.57	356
	213	2.46	512
	243	3.43	676
	274	4.37	826
	304	5.72	1046
	334	7.07	1259
	355	7.95	1392

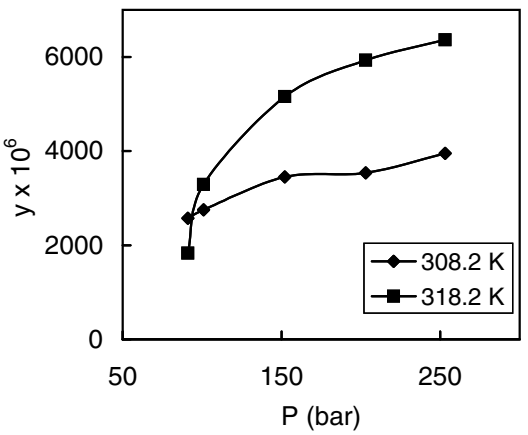


348	122	0.23	104
	152	0.34	106
	182	0.93	236
	213	2.02	460
	243	3.35	708
	274	4.85	972
	304	6.61	1272
	334	8.07	1506
	355	9.16	1676

Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

***p*-Hydroxyazobenzene** ($C_{12}H_{10}N_2O$; MW=198.22) **[H-48]**

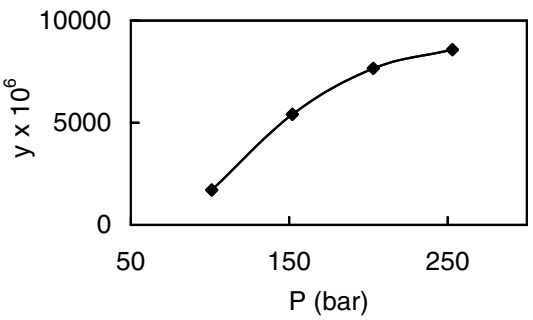
T (K)	P (bar)	y x 10^6
308.2	91	2570
	101	2750
	152	3450
	203	3540
	253	3950
318.2	91	1830
	101	3290
	152	5160
	203	5930
	253	6360



Synonyms: C. I. Solvent Yellow 7; 4-(Phenylazo)phenol
Source: Maeda, S.; Mishima, K.; Matsuyama, K.; Baba, M.; Hirabaru, T.; Ishikawa, H.; Hayashi, K.-I. *J. Chem. Eng. Data* (2001), 46(3), 647-650.

***p*-Hydroxyazobenzene** ($C_{12}H_{10}N_2O$; MW=198.22) **[H-49]**

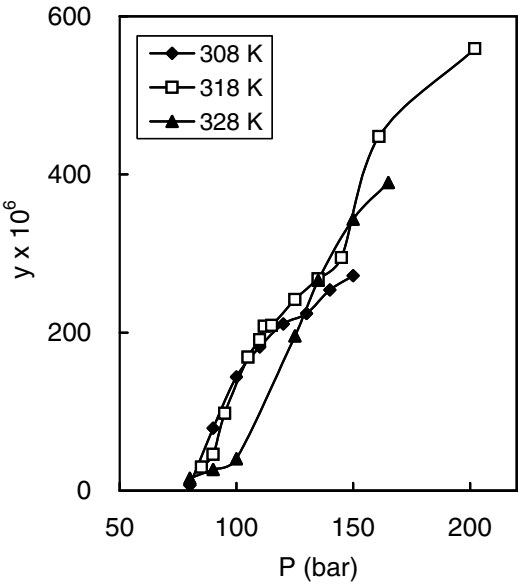
T (K)	P (bar)	y x 10^6
333.2	101	1710
	152	5410
	203	7670
	253	8570



Synonyms: 4-(Phenylazo)phenol; C. I. Solvent Yellow 7
Source: Mishima, K.; Matsuyama, K.; Ishikawa, H.; Hayashi, K-I.; Maeda, S. *Fluid Phase Equil.* (2002), 194-197, 895-904.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-50]**

T (K)	P (bar)	y[1)] x 10^6
308	80	7
	90	79
	100	144
	110	182
	120	211
	130	224
	140	254
	150	272
318	85	30
	90	46
	95	98
	105	169
	110	191
	112	*208*
	115	209
	125	242
	135	268
	145	295
	161	*448*
	202	*559*
328	80	16
	90	27
	100	41
	125	196
	135	266
	150	344
	165	390

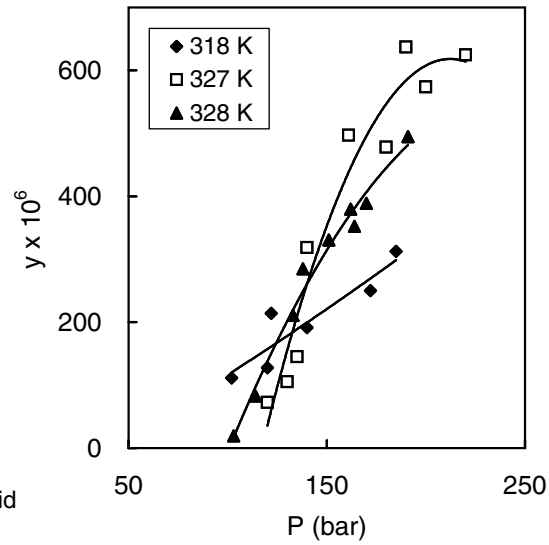


1: The data in italics are measured by static method. All others are from dynamic method.
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Bristow, S.; Shekunov, B. Y.; York, P. *Ind. Eng. Chem. Res.* (2001), 40(7), 1732-1739.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-51]**

T (K)	P (bar)	y x 10^6
318	102	111
	120	128
	122	214
	140	191
	172	250
	185	312
327	120	72
	130	105

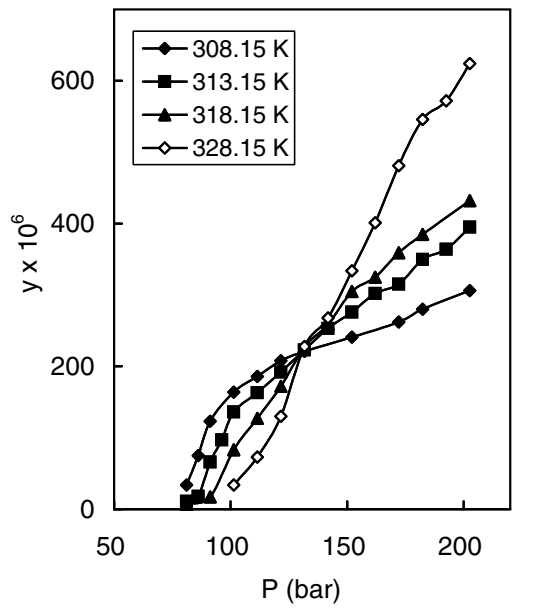
	135	145
	140	319
	161	497
	180	478
	190	637
	200	574
	220	625
328	103	20
	114	83
	133	211
	138	285
	151	331
	162	380
	164	352
	170	389
	191	495



Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Galia, A.; Argentino, A.; Scialdone, O.; Filardo, G. *J. Supercrit. Fluids* (2002), 24(1), 7-17.

***o*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-52]**

T (K)	P (bar)	y x 10^6
308.15	81.1	34
	86.1	75
	91.2	123
	101.3	164
	111.4	186
	121.6	208
	131.7	221
	152.0	241
	172.2	262
	182.4	280
	202.6	306
313.15	81.1	11
	86.1	18
	91.2	66
	96.2	97
	101.3	136
	111.4	163
	121.6	192
	131.7	223
	141.8	253
	152.0	276
	162.1	302
	172.2	315
	182.4	350
	192.5	364
	202.6	395

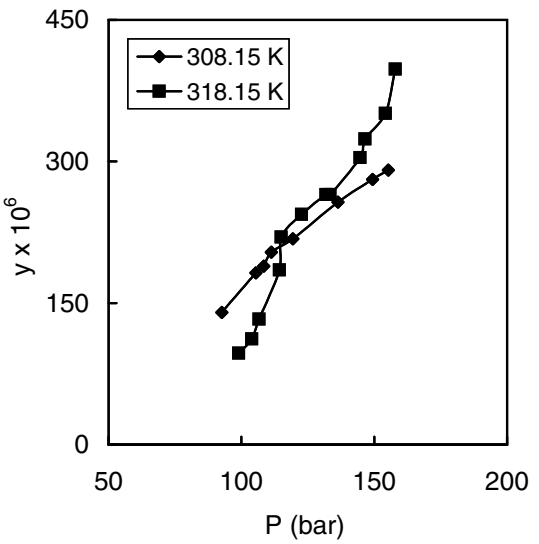


318.15	81.1	7
	91.2	17
	101.3	83
	111.4	127
	121.6	172
	131.7	227
	141.8	259
	152.0	305
	162.1	325
	172.2	359
	182.4	385
	202.6	432
328.15	101.3	34
	111.4	73
	121.6	130
	131.7	228
	141.8	268
	152.0	334
	162.1	401
	172.2	481
	182.4	546
	192.5	572
	202.6	624

Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Gurdial, G. S.; Foster, N. R. *Ind. Eng. Chem. Res.* (1991), 30(3), 575-580.

_o_-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-53]**

T (K)	P (bar)	y x 10^6
308.15	92.6	140
	105.4	182
	108.4	189
	111.2	204
	119.4	218
	136.3	257
	149.4	281
	155.3	291
318.15	99.0	97
	103.9	112
	106.7	133
	114.3	185
	115.0	220
	122.6	244
	131.9	265
	133.4	265
	144.7	304



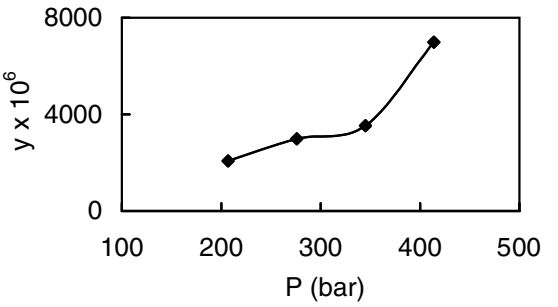
146.5	324
154.2	351
157.9	398

Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Ke, J.; Mao, C.; Zhong, M.; Han, B.; Yan, H. *J. Supercrit. Fluids* (1996), 9(2), 82-87.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-54]**

T(K)	P(bar)	y x 10^6
373	207	2070
	276	2990
	345	3530
	414	6990

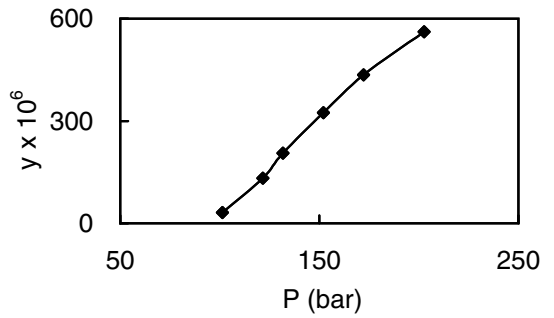
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Krukonis, V. J.; Kurnik, R. T. *J. Chem. Eng. Data* (1985), 30(3), 247-249.



o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-55]**

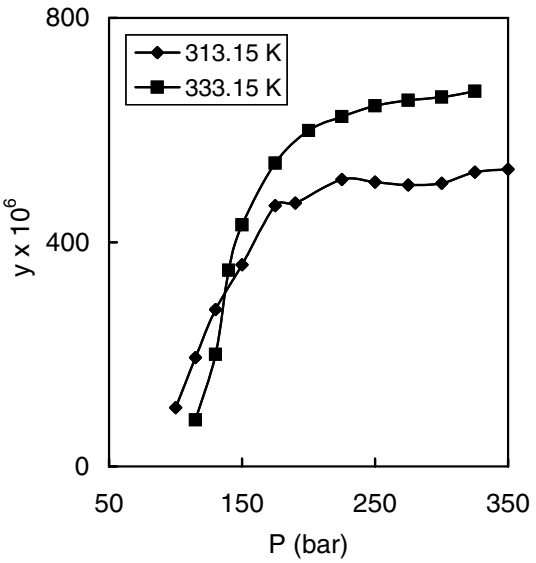
T (K)	P (bar)	y x 10^6
328	101.3	31.7
	121.6	132.0
	131.7	206.0
	152.0	324.0
	172.2	435.0
	202.6	562.0

Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Lucien, F. P.; Foster, N. R. *Ind. Eng. Chem. Res.* (1996), 35(12), 4686-4699.



o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-56]**

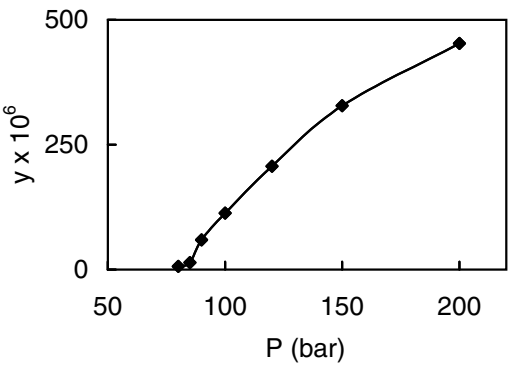
T (K)	P (bar)	y x 10^6
313.15	100	105
	115	194
	130	280
	150	360
	175	465
	190	470
	225	512
	250	507
	275	502
	300	505
	325	525
	350	530
333.15	115	83
	130	200
	140	350
	150	431
	175	541
	200	599
	225	624
	250	643
	275	653
	300	659
	325	669



Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Reverchon, E.; Donsi, G.; Gorgoglione, D. *J. Supercrit. Fluids* (1993), 6(4), 241-248.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-57]**

T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	80	0.04	6
	85	0.09	14
	90	0.37	59
	100	0.70	113
	120	1.29	207
	150	2.04	328
	200	2.81	453

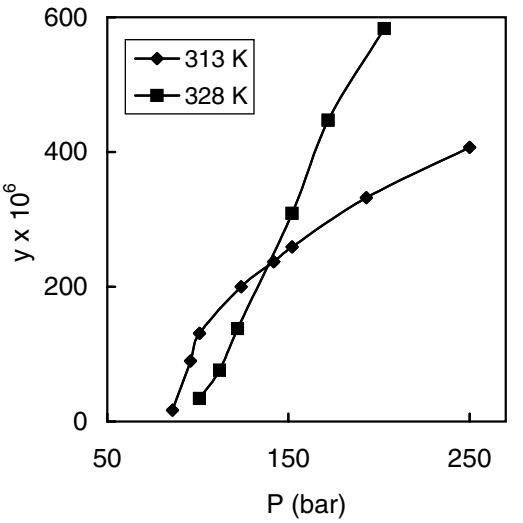


1: Obtained by digitizing the graph in the original article.
2: Nl means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.

Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-58]**

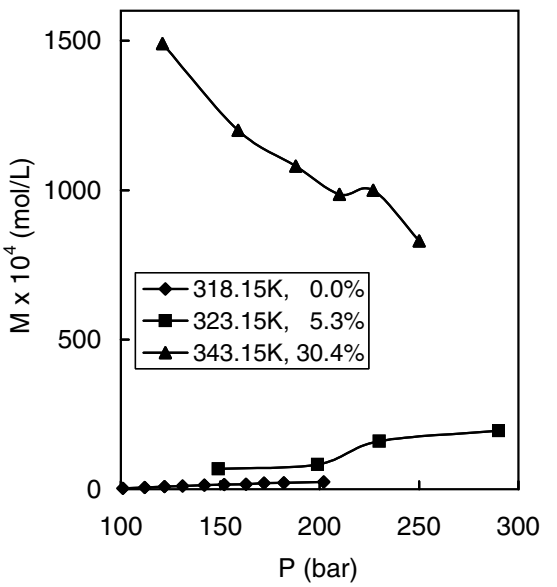
T(K)	P(bar)	y x 10^6
313	86	17
	96	90
	101	131
	124	200
	142	237
	152	259
	193	332
	250	407
328	101	34
	112	76
	122	138
	152	309
	172	447
	203	583



Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Stassi, A.; Bettini, R.; Gazzaniga, A.; Giordano, F.; Schiraldi, A. *J. Chem. Eng. Data* (2000), 45(2), 161-165.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-59]**

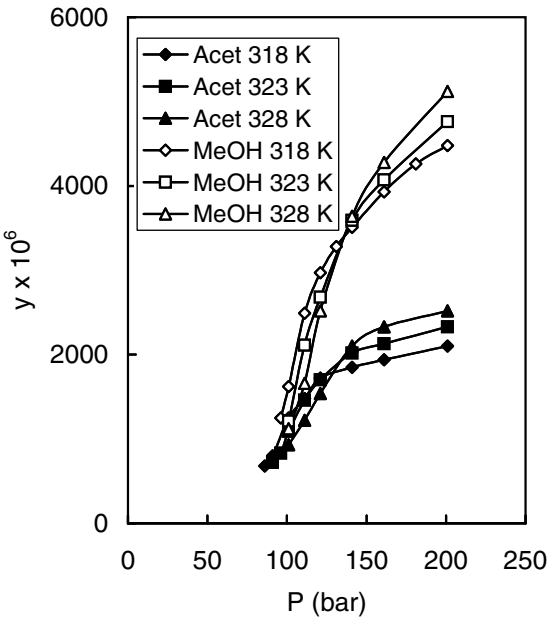
T (K)	P (bar)	HFC134a[1] (mol%)	M[2] x 10^4 (mol/L)
318.15	101	0.0	2.8
	112	0.0	5.4
	122	0.0	8.5
	131	0.0	10.5
	142	0.0	13.8
	152	0.0	15.8
	163	0.0	17.0
	172	0.0	20.9
	182	0.0	21.6
	202	0.0	24.0
323.15	149	5.3	68.0
	199	5.3	83.0
	230	5.3	161.0
	290	5.3	196.0
343.15	121	30.4	1490.0
	159	30.4	1200.0
	188	30.4	1080.0
	210	30.4	986.0
	227	30.4	1000.0
	250	30.4	830.0



1: Cosolvent on a solute-free basis.
2: The data for solubility in pure CO_2 are from Abbott, A. P.; Eardley, C. A.; Tooth, R. *J. Chem. Eng. Data.* (1999), 44, 112.
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Abbott, A. P.; Eardley, C. A.; Scheirer, J. E. *Green Chem.* (2000), 2(2), 63-66.

***o*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-60]**

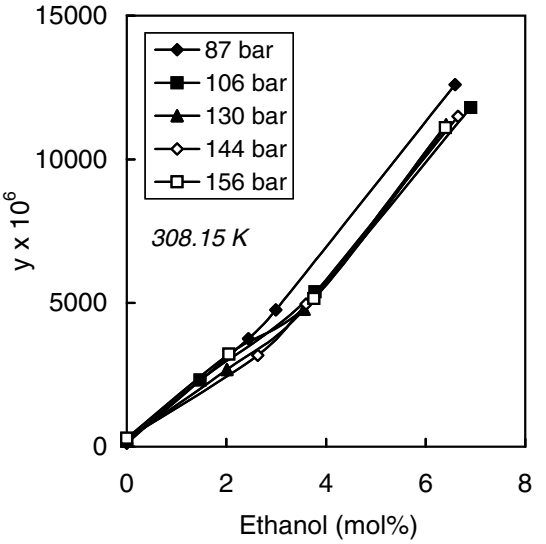
T (K)	P (bar)	Cosolvent[1] (mol %)	y x 10^6
		Acetone	
318	86	3.5	680
	91	3.5	800
	101	3.5	1250
	111	3.5	1480
	121	3.5	1720
	141	3.5	1850
	161	3.5	1940
	201	3.5	2100
323	91	3.5	720
	96	3.5	830
	101	3.5	1090
	111	3.5	1460
	121	3.5	1700
	141	3.5	2020
	161	3.5	2130
	201	3.5	2330
328	101	3.5	930
	111	3.5	1220
	121	3.5	1540
	141	3.5	2100
	161	3.5	2330
	201	3.5	2520
		Methanol	
318	96	3.5	1250
	101	3.5	1620
	111	3.5	2490
	121	3.5	2970
	131	3.5	3280
	141	3.5	3510
	161	3.5	3930
	181	3.5	4260
	201	3.5	4480
323	101	3.5	1210
	111	3.5	2110
	121	3.5	2680
	141	3.5	3590
	161	3.5	4070
	201	3.5	4760
328	101	3.5	1120
	111	3.5	1660
	121	3.5	2520
	141	3.5	3640
	161	3.5	4280
	201	3.5	5120

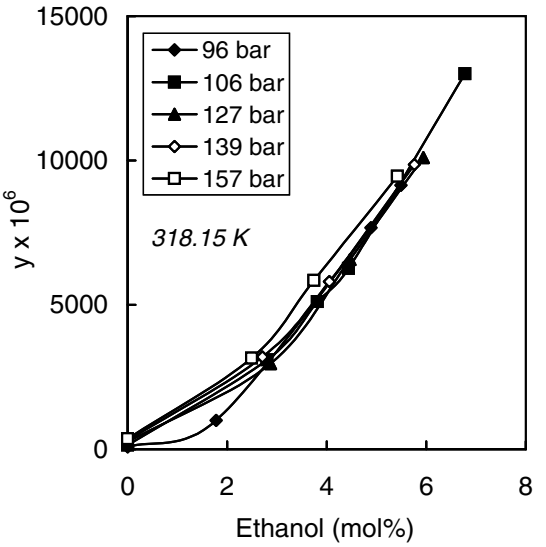


1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Gurdial, G. S.; Macnaughton, S. J.; Tomasko, D. L.; Foster, N. R. *Ind. Eng. Chem. Res.* (1993), 32(7), 1488-1497.

***o*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-61]**

T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
308.15	87	0.00	124
		2.44	3760
		2.99	4760
		6.59	12600
	106	0.00	186
		1.47	2320
		3.78	5390
		6.91	11800
	130	0.00	246
		2.01	2680
		3.56	4780
		6.41	11200
	144	0.00	273
		2.63	3180
		3.60	4960
		6.65	11500
	156	0.00	290
		2.05	3220
		3.76	5160
		6.40	11100
318.15	96	0.00	78
		1.78	1000
		4.89	7670
		5.49	9140
	106	0.00	138
		2.80	3090
		3.81	5110
		4.44	6260
		6.78	13000
	127	0.00	248
		2.87	2960
		4.47	6570
		5.94	10100
	139	0.00	300
		2.71	3200
		4.05	5810
		5.76	9860
	157	0.00	362
		2.49	3160
		3.74	5850
		5.42	9460



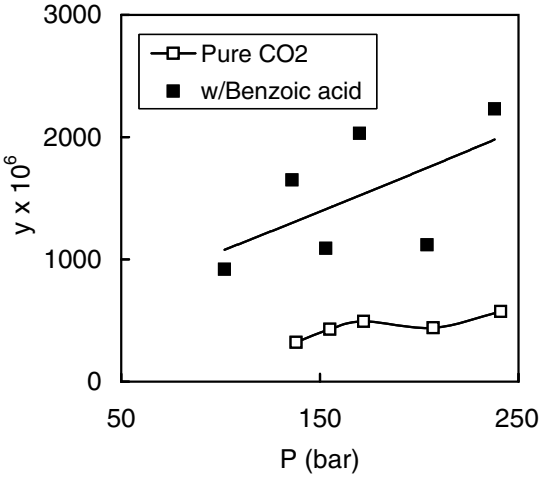


1: Cosolvent in CO_2.
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Ke, J.; Mao, C.; Zhong, M.; Han, B.; Yan, H. *J. Supercrit. Fluids* (1996), 9(2), 82-87.

o-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-62]**

T (K)	P (bar)	Benzoic acid[1)]	y x 10^6
318	138	0	321
	155	0	428
	172	0	494
	207	0	441
	241	0	574
318	102	trace	918
	136	trace	1650
	153	trace	1090
	170	trace	2030
	204	trace	1120
	238	trace	2230

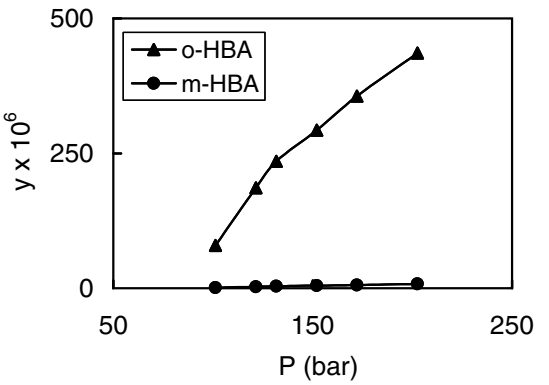
1: Cosolvent in CO_2.
Synonyms: 2-Hydroxybenzoic acid; Salicylic acid
Source: Tavana, A.; Randolph, A. D. *AIChE Symp. Ser.* (1991), 87 (284, Particle. Des. Cryst.), 5-15.



o-Hydroxybenzoic acid (1) + m-Hydroxybenzoic acid (2) Mixture[1)]
($C_7H_6O_3$; MW=138.12) **[H-63]**

T (K)	P (bar)	y_1 x10^6	y_2 x10^6
318	101.3	79	0.97
	121.6	186	2.78
	131.7	235	3.72
	152.0	293	4.88
	172.2	356	6.20
	202.6	436	7.94

1: Solubility was measured from an equimolar mixture of 1 and 2.
Source: Lucien, F. P.; Foster, N. R. *J. Chem. Eng. Data* (1998), 43(5), 726-731.

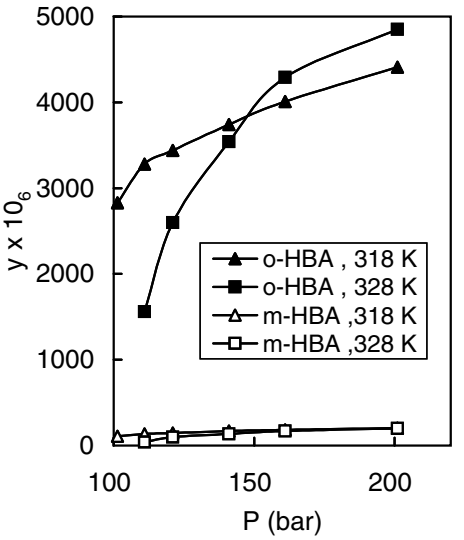


o-Hydroxybenzoic acid (1) + *m*-Hydroxybenzoic acid (2) Mixture[1)] [H-64]

($C_7H_6O_3$; MW=138.12)

T (K)	P (bar)	Methanol[2)] (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
318	101	3.5	2830	108
	111	3.5	3280	134
	121	3.5	3440	145
	141	3.5	3740	169
	161	3.5	4010	183
	201	3.5	4410	203
328	111	3.5	1560	41
	121	3.5	2600	99
	141	3.5	3540	136
	161	3.5	4290	171
	201	3.5	4850	199

1: Solubility was measured from an equimolar mixture of components 1 and 2.
2: Cosolvent in CO_2.
Source: Saquing, C. D.; Lucien, F. P.; Foster, N. R. *Ind. Eng. Chem. Res.* (1998), 37(10), 4190-4197.

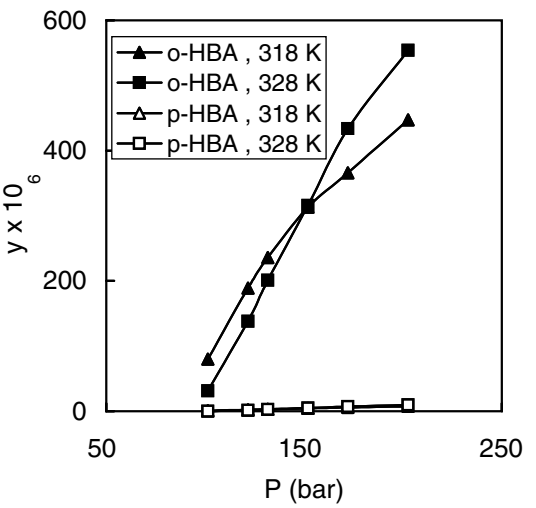


o-Hydroxybenzoic acid (1) + *p*-Hydroxybenzoic acid (2) Mixture[1)] [H-65]

($C_7H_6O_3$; MW=138.12)

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
318	101.3	80	0.80
	121.6	189	2.41
	131.7	236	3.14
	152.0	313	4.65
	172.2	366	5.99
	202.6	447	7.53
328	101.3	31	0.21
	121.6	138	1.55
	131.7	201	2.55
	152.0	316	4.72
	172.2	434	7.00
	202.6	554	9.93

1: Solubillity was measured from an equimolar mixture of components 1 and 2.
Source: Lucine, F. P,: Foster, N. R. *Ind. Eng. Chem. Res.* (1996), 35(12), 4686-4699.

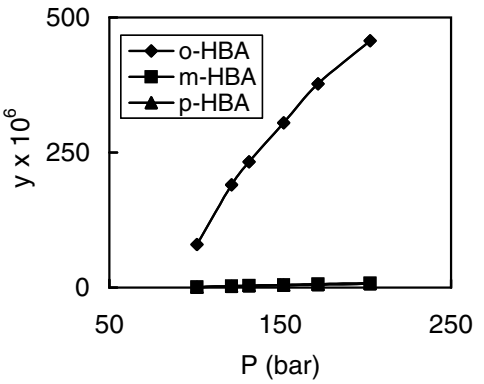


o-Hydroxybenzoic acid (1) + *m*-Hydroxybenzoic acid (2) + *p*-Hydroxybenzoic acid (3) Mixture[1)] [H-66]

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$	$y_3 \times 10^6$
318	101.3	80	1.00	0.79
	121.6	190	2.79	2.36
	131.7	233	3.54	3.06
	152.0	305	4.89	4.34
	172.2	377	6.20	5.55
	202.6	457	7.99	7.19

1: Solubility was measured from an equimolar mixture of components 1, 2 and 3.

Source: Lucien, F. P.; Foster, N. R. *J. Chem. Eng. Data* (1998), 43(5), 726-731.



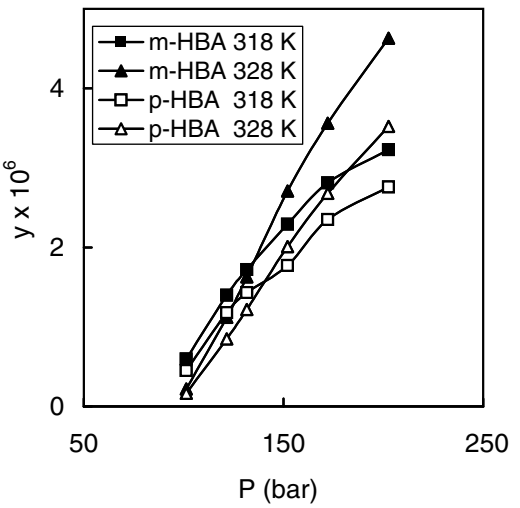
m-Hydroxybenzoic acid (1) + *p*-Hydroxybenzoic acid (2) Mixture[1)] [H-67]

($C_7H_6O_3$; MW=138.12)

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
318	101.3	0.60	0.45
	121.6	1.40	1.18
	131.7	1.72	1.43
	152.0	2.29	1.77
	172.2	2.81	2.35
	202.6	3.23	2.76
328	101.3	0.22	0.17
	121.6	1.12	0.85
	131.7	1.63	1.22
	152.0	2.71	2.01
	172.2	3.56	2.68
	202.6	4.63	3.52

1: Solubility was measured from an equimolar mixture of components 1 and 2.

Source: Lucien, F. P.; Foster, N. R. *J. Chem. Eng. Data* (1998), 43(5), 726-731.

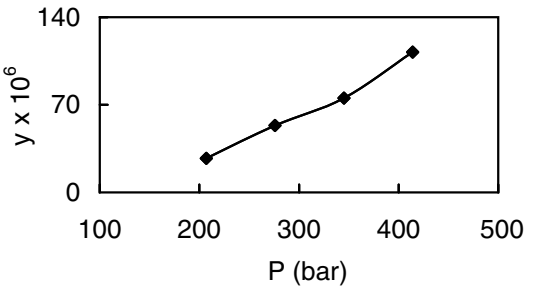


m-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) [H-68]

T (K)	P (bar)	y x 10^6
373	207	27.1
	276	53.5
	345	75.4
	414	112.0

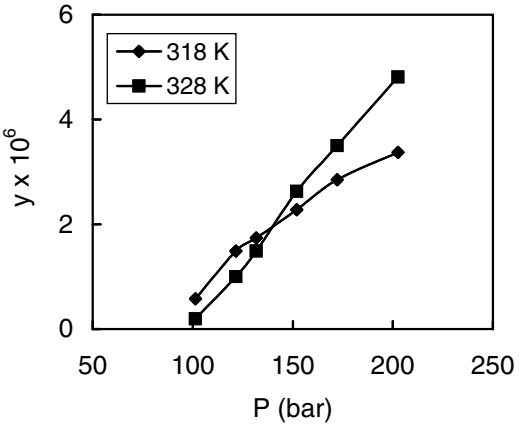
Synonym: 3-Hydroxybenzoic acid

Source: Krukonis, V. J.; Kurnik, R. T. *J. Chem. Eng. Data* (1985), 30(3), 247-249.



***m*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-69]**

T (K)	P (bar)	y x 10^6
318	101.3	0.58
	121.6	1.49
	131.7	1.74
	152.0	2.28
	172.2	2.85
	202.6	3.37
328	101.3	0.19
	121.6	1.00
	131.7	1.49
	152.0	2.63
	172.2	3.50
	202.6	4.81

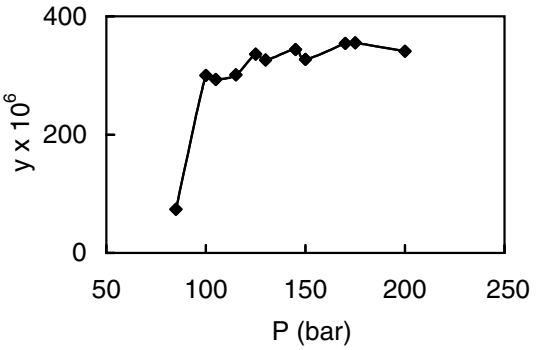


Synonym: 3-Hydroxybenzoic acid
Source: Lucien, F. P.; Foster, N. R.
J. Chem. Eng. Data (1998), 43(5), 726-731.

***m*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12)

[H-70]

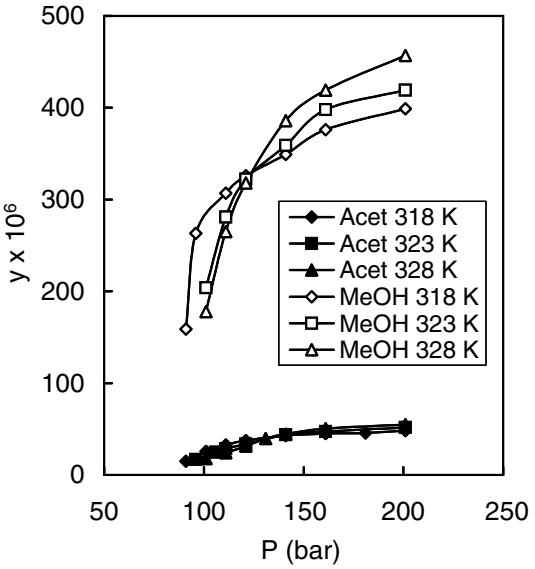
T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
318	85	3.5	74
	100	3.5	300
	105	3.5	293
	115	3.5	301
	125	3.5	336
	130	3.5	326
	145	3.5	344
	150	3.5	327
	170	3.5	354
	175	3.5	355
	200	3.5	341



1: Cosolvent in CO_2.
Synonym: 3-Hydroxybenzoic acid
Source: Bristow, S.; Shekunov, B. Y.; York, P.
Ind. Eng. Chem. Res. (2001), 40(7), 1732-1739.

***m*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-71]**

T (K)	P (bar)	Cosolvent[1] (mol %)	$y^{2)} \times 10^6$
		Acetone	
318	91	3.5	15.0
	101	3.5	25.6
	111	3.5	32.6
	121	3.5	37.3
	141	3.5	42.8
	161	3.5	44.9
	181	3.5	45.8
	201	3.5	48.3
323	96	3.5	16.7
	106	3.5	24.7
	111	3.5	28.5
	121	3.5	33.6
	141	3.5	43.7
	161	3.5	47.2
	201	3.5	51.6
328	101	3.5	17.7
	111	3.5	24.0
	121	3.5	31.4
	131	3.5	39.5
	141	3.5	44.5
	161	3.5	50.4
	201	3.5	54.7
		Methanol	
318	91	3.5	159
	96	3.5	263
	111	3.5	307
	121	3.5	326
	141	3.5	349
	161	3.5	376
	201	3.5	399
323	101	3.5	204
	111	3.5	281
	121	3.5	322
	141	3.5	359
	161	3.5	398
	201	3.5	419



328	101	3.5	178
	111	3.5	265
	121	3.5	318
	141	3.5	386
	161	3.5	419
	201	3.5	457

1: Cosolvent in CO_2 on a solute-free basis.

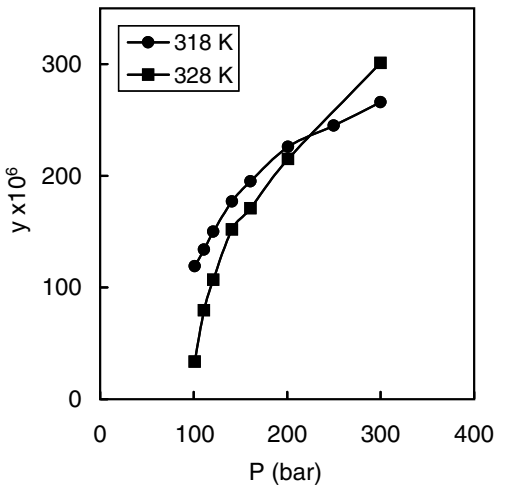
2: The order of magnitude (10^5) for solubility in CO_2 modified with methanol must have been misprinted in the source table (Table II) and therefore was corrected to 10^4 based on Figure 1. The corrected solubility values are shown in this table.

Synonym: 3-Hydroxybenzoic acid

Source: Gurdial, G. S.; Macnaughton, S. J.; Tomasko, D. L.; Foster, N. R. *Ind. Eng. Chem. Res.* (1993), 32(7), 1488-1497.

***m*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-72]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
318	101	3.5	119
	111	3.5	134
	121	3.5	150
	141	3.5	177
	161	3.5	195
	201	3.5	226
	250	3.5	245
	300	3.5	266
328	101	3.5	34
	111	3.5	80
	121	3.5	107
	141	3.5	152
	161	3.5	171
	201	3.5	215
	300	3.5	301



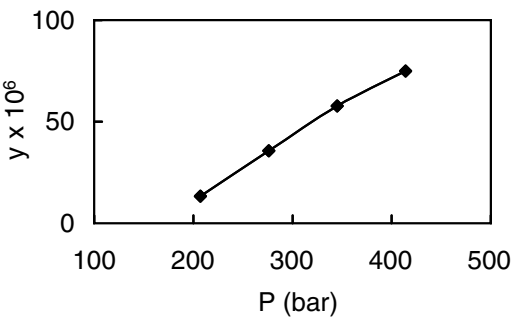
1: Cosolvent in CO_2.

Synonym: 3-Hydroxybenzoic acid

Source: Saquing, C. D.; Lucien, F. P.; Foster, N. R. *Ind. Eng. Chem. Res.* (1998), 37(10), 4190-4197.

***p*-Hydroxybenzoic acid** ($C_7H_6O_3$; MW=138.12) **[H-73]**

T(K)	P(bar)	y x 10^6
373	207	13.3
	276	35.7
	345	57.7
	414	74.9

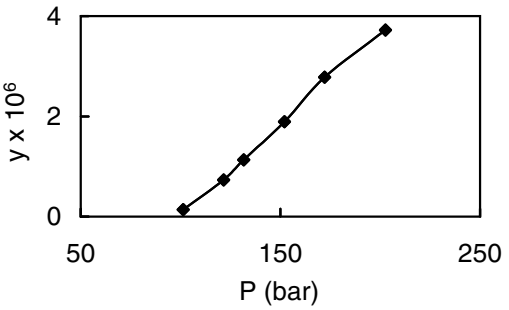


Synonym: 4-Hydroxybenzoic acid

Source: Kurkonis, V. J.; Kurnik, R. T. *J. Chem. Eng. Data* (1985), 30(3), 247-249.

_p_-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-74]**

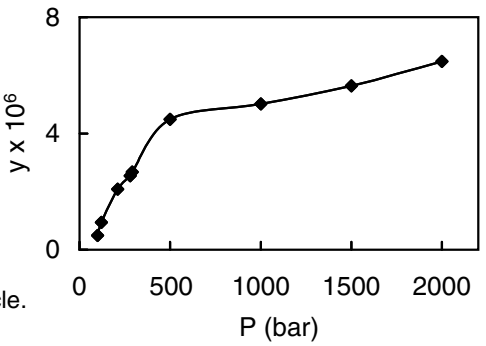
T (K)	P (bar)	y x 10^6
328	101.3	0.14
	121.6	0.73
	131.7	1.13
	152.0	1.89
	172.2	2.78
	202.6	3.72



Synonym: 4-Hydroxybenzoic acid
Source: Lucien, F. P.; Foster, N. R. *Ind. Eng. Chem. Res.* (1996), 35(12), 4686-4699.

_p_-Hydroxybenzoic acid ($C_7H_6O_3$; MW=138.12) **[H-75]**

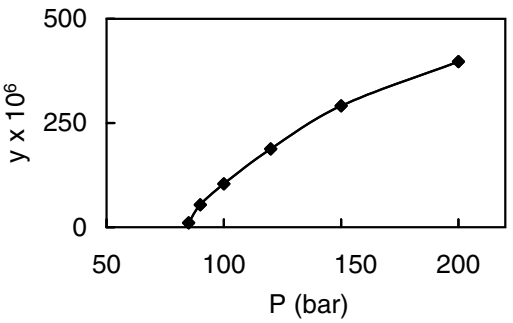
T(K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	100	3.0	0.49
	120	5.8	0.94
	210	12.9	2.08
	280	15.8	2.54
	290	16.6	2.68
	500	27.8	4.48
	1000	31.1	5.01
	1500	35.0	5.64
	2000	40.2	6.48



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: 4-Hydroxybenzoic acid
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.
(*Another source* : Stahl, E.; Schilz, W.; Schutz, E.; Willing, E. *Angew. Chem. Int. Ed.* (1978), 17, 731-738.)

4-Hydroxybenzoic acid ethyl ester ($C_9H_{10}O_3$; MW=166.17) **[H-76]**

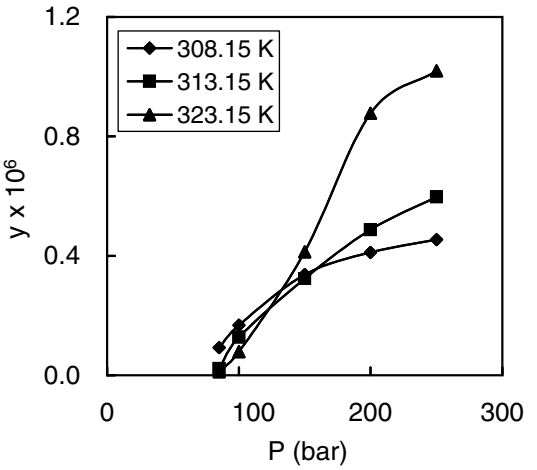
T (K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	85	0.08	11
	90	0.40	54
	100	0.77	104
	120	1.40	188
	150	2.17	291
	200	2.97	397



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: Ethyl 4-hydroxybenzoate
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.

4-Hydroxycoumarin ($C_9H_6O_3$; MW=162.14) **[H-77]**

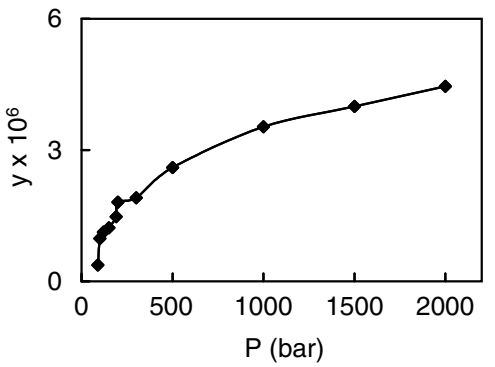
T (K)	P (bar)	y x 10^6
308.15	85	0.093
	100	0.168
	150	0.337
	200	0.411
	250	0.454
313.15	85	0.022
	100	0.128
	150	0.324
	200	0.487
	250	0.598
323.15	85	0.012
	100	0.079
	150	0.413
	200	0.877
	250	1.020



Synonym: 4-Hydroxychromen-2-one
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

7-Hydroxycoumarin ($C_9H_6O_3$; MW=162.14) **[H-78]**

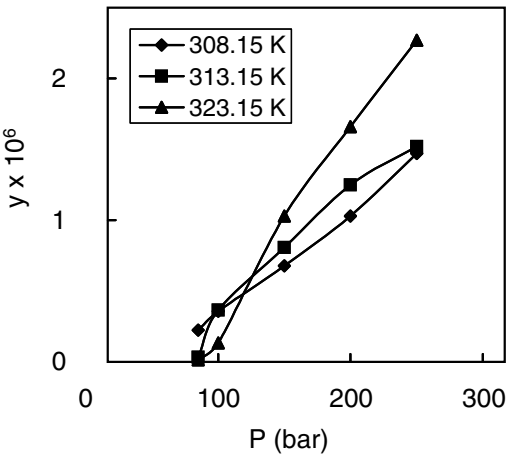
T (K)	P[1] (bar)	S[1] (mg/Nl[2])	y[3] x 10^6
313.15	90	0.0027	0.37
	100	0.0071	0.97
	120	0.0082	1.13
	150	0.0089	1.22
	190	0.0108	1.48
	200	0.0132	1.81
	300	0.0139	1.91
	500	0.0189	2.60
	1000	0.0257	3.53
	1500	0.0291	4.00
	2000	0.0325	4.46



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: 7-Hydroxychromen-2-one
Source: Stahl, E.; Schilz, W. *Talanta* (1979), 26, 675-679.

7-Hydroxycoumarin ($C_9H_6O_3$; MW=162.14) **[H-79]**

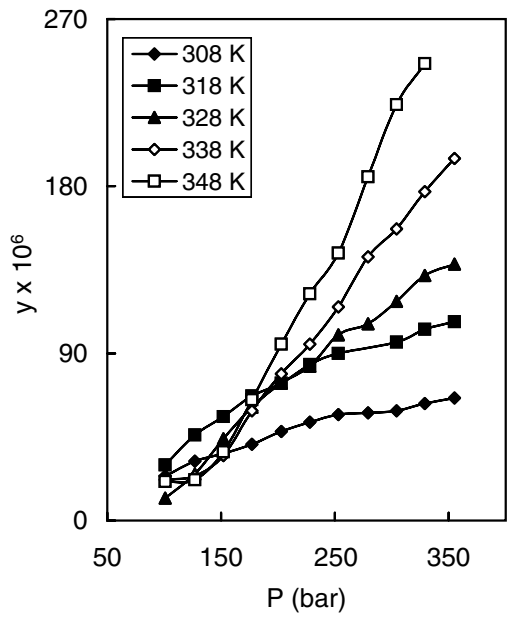
T (K)	P (bar)	y x 10^6
308.15	85	0.223
	100	0.358
	150	0.677
	200	1.030
	250	1.470
313.15	85	0.033
	100	0.366
	150	0.808
	200	1.250
	250	1.520
323.15	85	0.015
	100	0.134
	150	1.030
	200	1.660
	250	2.270



Synonym: 7-Hydroxychromen-2-one
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

1-Hydroxy-2,4-dimethylanthrone ($C_{16}H_{14}O_2$; MW=238.28) **[H-80]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.09	24
	127	0.14	32
	152	0.16	36
	177	0.19	41
	203	0.23	48
	228	0.26	53
	253	0.28	57
	279	0.29	58
	304	0.30	59
	329	0.32	63
	355	0.34	66
318	101	0.08	30
	127	0.17	46
	152	0.23	56
	177	0.29	67
	203	0.33	74
	228	0.38	84
	253	0.42	90
	304	0.47	96
	329	0.51	103
	355	0.53	107

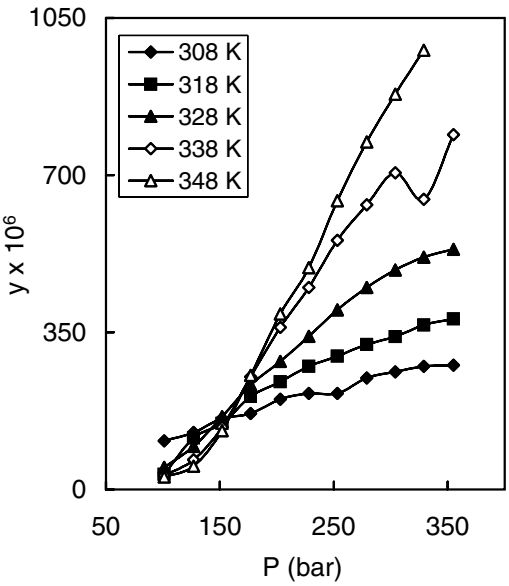


328	101	0.02	12
	127	0.08	25
	152	0.16	44
	177	0.24	61
	203	0.30	74
	228	0.35	83
	253	0.44	100
	279	0.48	106
	304	0.54	118
	329	0.62	132
	355	0.66	138
338	101	0.03	22
	127	0.06	24
	152	0.11	35
	177	0.21	59
	203	0.30	79
	228	0.38	95
	253	0.48	115
	279	0.61	142
	304	0.69	157
	329	0.80	177
	355	0.90	195
348	101	0.03	21
	127	0.04	22
	152	0.10	37
	177	0.20	65
	203	0.33	95
	228	0.45	122
	253	0.56	144
	279	0.75	185
	304	0.94	224
	329	1.06	246

Synonym: 4-Hydroxy-1,3-dimethylanthracen-10(9*H*)-one
Source: Karami, A. R.; Yamini, Y.; Ghiasvand, A. R.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (2001), 46(6), 1371-1374.

1-Hydroxy-2-ethylanthrone ($C_{16}H_{14}O_2$; MW=238.28) **[H-81]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.42	108
	127	0.54	127
	152	0.70	158
	177	0.77	169
	203	0.95	201
	228	1.03	214
	253	1.05	214
	279	1.24	248
	304	1.32	262
	329	1.40	274
	355	1.43	277
318	101	0.09	34
	127	0.42	115
	152	0.59	147
	177	0.88	207
	203	1.06	240
	228	1.25	274
	253	1.39	297
	279	1.53	323
	304	1.64	340
	329	1.80	366
	355	1.90	380
328	101	0.09	49
	127	0.29	96
	152	0.58	162
	177	0.90	233
	203	1.17	285
	228	1.46	341
	253	1.76	400
	279	2.04	450
	304	2.26	489
	329	2.43	517
	355	2.57	535
338	101	0.05	31
	127	0.15	66
	152	0.42	139
	177	0.88	251
	203	1.36	361
	228	1.80	450
	253	2.30	555
	279	2.72	634
	304	3.11	705
	329	2.91	646
	355	3.63	790

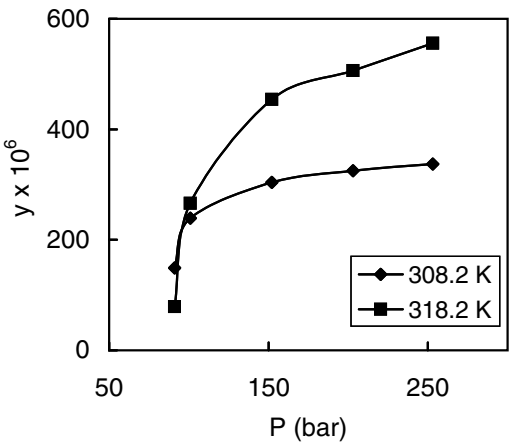


348	101	0.04	28
	127	0.09	52
	152	0.34	131
	177	0.78	254
	203	1.34	391
	228	1.82	494
	253	2.50	643
	279	3.12	774
	304	3.68	880
	329	4.20	978

Synonym: 2-Ethyl-1-hydroxyanthracen-9(10*H*)-one
Source: Karami, A. R.; Yamini, Y.; Ghiasvand, A. R.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (2001), 46(6), 1371-1374.

3-Hydroxyflavone ($C_{15}H_{10}O_3$; MW=238.24) **[H-82]**

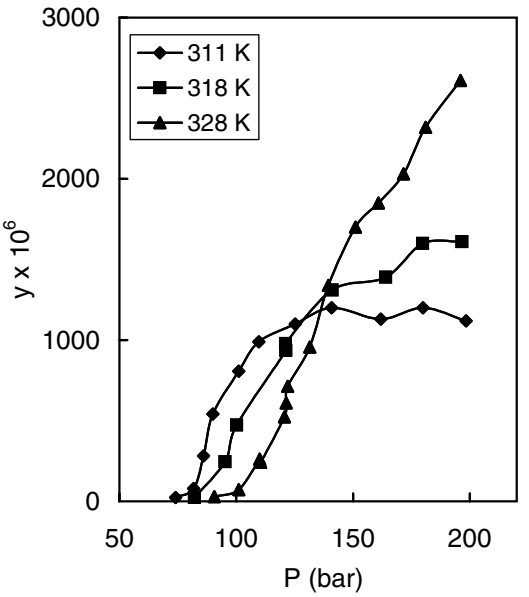
T (K)	P (bar)	$y^{1)} \times 10^6$
308.2	91	149
	101	239
	152	304
	203	325
	253	337
318.2	91	79
	101	266
	152	454
	203	506
	253	556



1: The order of magnitude for solubility (10^5) in the source table was misprinted. The solubility values shown here were obtained directly from the authors.
Synonyms: Flavon-3-ol; 3-Hydroxy-2-phenylchromone
Source: Uchiyama, H.; Mishima, K.; Oka, S.; Ezawa, M.; Ide, M.; Takai, T.; Park, P. W. *J. Chem. Eng. Data* (1997), 42(3), 570-573. (*Another source*: Mishima, K.; Y, S.; Ito, M.; Ezawa, M.; Tanabe, D. *Solvent Extr. Res. Dev., Japan* (1999), 6, 176-181.)

2-Hydroxyhexanoic acid ($C_6H_{12}O_3$; MW=132.16) **[H-83]**

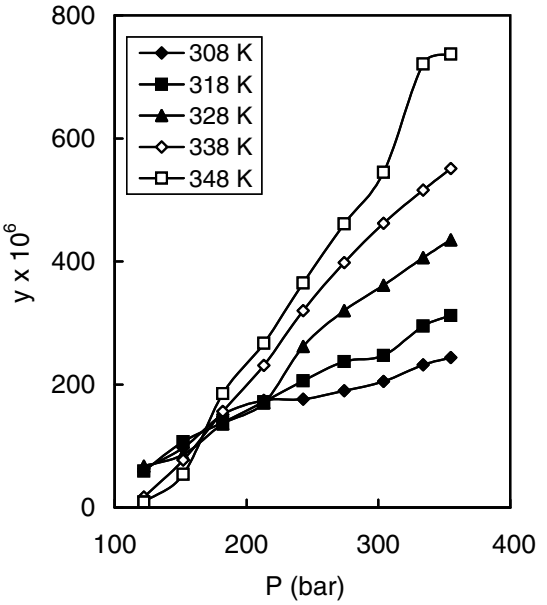
T (K)	P (bar)	y x 10^6
311	74	23
	82	80
	86	282
	90	541
	101	806
	110	990
	125	1100
	141	1200
	162	1130
	180	1200
	198	1120
318	82	24
	95	245
	100	473
	121	935
	121	978
	141	1310
	164	1390
	180	1600
	197	1610
328	91	29
	101	72
	110	262
	110	241
	121	523
	121	610
	122	713
	131	956
	139	1340
	151	1700
	161	1850
	172	2030
	181	2320
	196	2610



Synonym: (±)-2-Hydroxycaproic acid
Source: Gregorowicz, J. *Fluid Phase Equil.* (1999), 166(1), 39-46.

1-Hydroxy-2-methylanthraquinone ($C_{15}H_{10}O_3$; MW=238.25) **[H-84]**

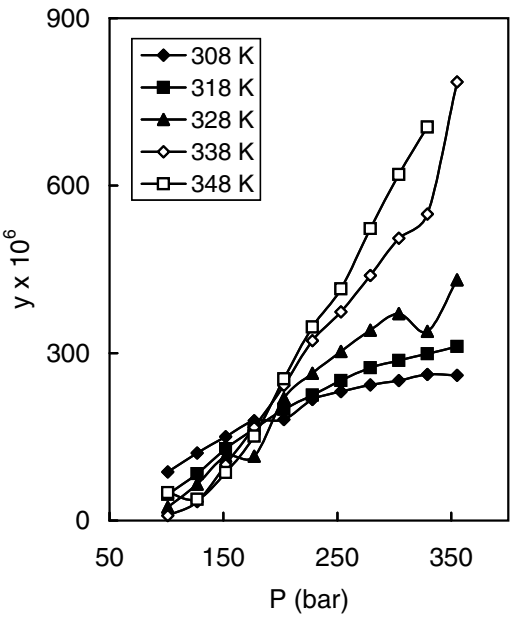
T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.26	63
	152	0.43	97
	182	0.70	151
	213	0.82	174
	243	0.85	176
	274	0.94	190
	304	1.03	205
	334	1.19	232
	355	1.26	244
318	122	0.21	59
	152	0.43	107
	182	0.59	138
	213	0.77	172
	243	0.95	206
	274	1.12	237
	304	1.19	247
	334	1.46	295
	355	1.55	312
328	122	0.19	67
	152	0.31	86
	182	0.53	136
	213	0.71	170
	243	1.14	262
	274	1.44	320
	304	1.67	361
	334	1.92	406
	355	2.08	435
338	122	0.04	17
	152	0.24	77
	182	0.55	156
	213	0.89	231
	243	1.31	320
	274	1.69	398
	304	2.03	462
	334	2.33	516
	355	2.53	551
348	122	0.02	9
	152	0.14	54
	182	0.59	185
	213	0.94	267
	243	1.39	365
	274	1.85	461
	304	2.28	545
	334	3.11	721
	355	3.24	737



Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H. *J. Supercrit. Fluids* (2004), 32(1-3), 47-53.

1-Hydroxy-2-methylanthrone ($C_{15}H_{12}O_2$; MW=224.25) **[H-85]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.32	87
	127	0.48	121
	152	0.63	150
	177	0.77	179
	203	0.80	181
	228	0.98	217
	253	1.07	231
	279	1.14	243
	304	1.19	251
	329	1.26	262
	355	1.27	260
318	101	0.12	47
	127	0.29	84
	152	0.49	129
	177	0.65	164
	203	0.82	199
	228	0.97	225
	253	1.10	251
	279	1.23	274
	304	1.31	287
	329	1.38	299
	355	1.47	312
328	101	0.04	24
	127	0.18	65
	152	0.39	115
	177	0.42	115
	203	0.84	219
	228	1.06	264
	253	1.26	303
	279	1.45	341
	304	1.6?	371
	329	1.50	339
	355	1.95	431
338	101	0.01	9
	127	0.07	34
	152	0.29	100
	177	0.55	167
	203	0.86	242
	228	1.21	322
	253	1.46	374
	279	1.77	439
	304	2.10	506
	329	2.33	549
	355	3.41	786
348	101	0.06	50
	127	0.06	38



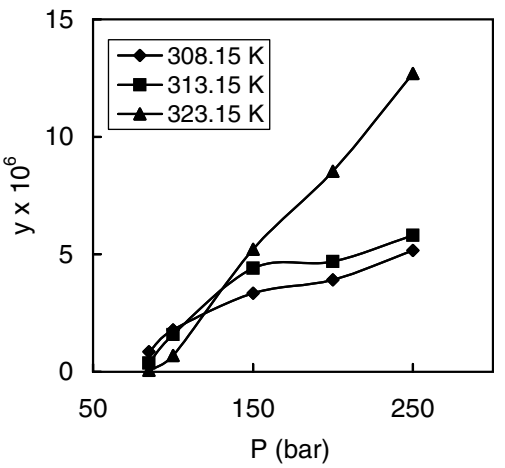
152	0.21	86
177	0.44	151
203	0.82	254
228	1.20	347
253	1.52	415
279	1.99	523
304	2.44	620
329	2.85	705

Synonyms: 1-Hydroxy-2-methylanthracen-9(10H)-one

Source: Karami, A. R.; Yamini, Y.; Ghiasvand, A. R.; Sharghi, H.; Shamsipur, M. *J. Chem. Eng. Data* (2001), 46(6), 1371-1374.

7-Hydroxy-4-methylcoumarin ($C_{10}H_8O_3$; FW=176.17) **[H-86]**

T (K)	P (bar)	y x 10^6
308.15	85	0.85
	100	1.78
	150	3.34
	200	3.91
	250	5.17
313.15	85	0.37
	100	1.59
	150	4.41
	200	4.70
	250	5.81
313.15	85	0.06
	100	0.70
	150	5.22
	200	8.53
	250	12.70



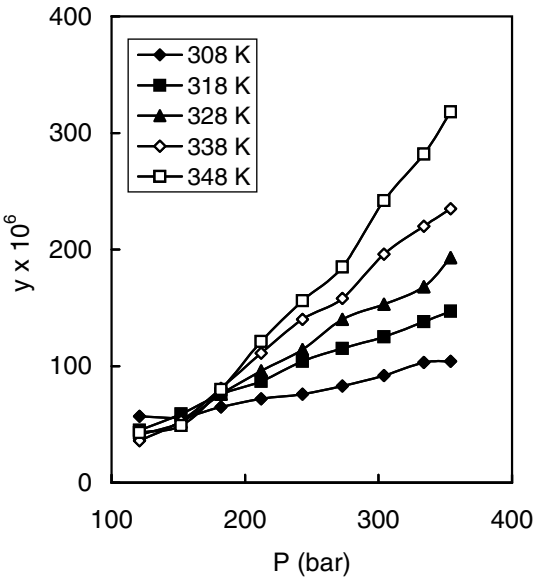
Synonym: 7-Hydroxy-4-methyl-2*H*-chromen-2-one; 4-Methylumbelliferone

Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

1-Hydroxy-3-methylthioxanthone ($C_{14}H_{10}O_2S$; MW=242.29) **[H-87]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121	0.24	57
	152	0.25	56
	182	0.31	65
	212	0.35	72
	243	0.38	76
	273	0.42	83
	304	0.47	92
	334	0.54	103
	354	0.55	104

318	121	0.16	45
	152	0.24	59
	182	0.33	76
	212	0.40	87
	243	0.49	104
	273	0.55	115
	304	0.61	125
	334	0.69	138
	354	0.74	147
328	121	0.12	41
	152	0.19	52
	182	0.30	76
	212	0.41	96
	243	0.50	114
	273	0.64	140
	304	0.72	153
	334	0.81	168
	354	0.94	193
338	121	0.08	36
	152	0.17	53
	182	0.29	81
	212	0.43	111
	243	0.58	140
	273	0.68	18
	304	0.88	196
	334	1.01	220
	354	1.10	235
348	121	0.08	43
	152	0.13	49
	182	0.26	80
	212	0.43	121
	243	0.60	156
	273	0.75	185
	304	1.03	242
	334	1.24	282
	354	1.42	318

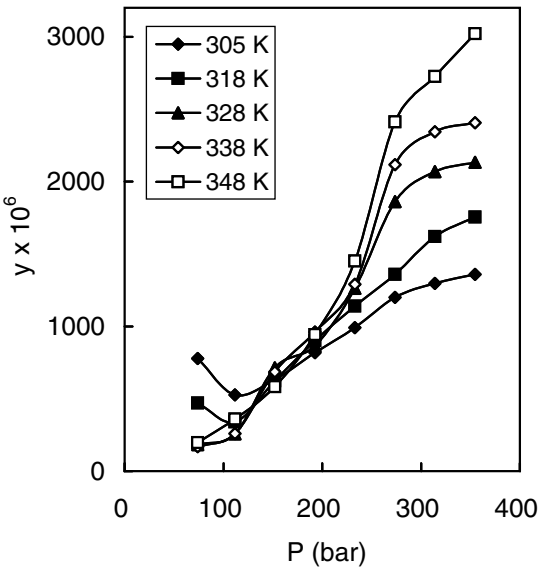


Synonym: 1-Hydroxy-3-methylthioxanthen-9-one
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H.; Salimi, A. R. *J. Chem. Eng. Data* (2003), 48(5), 1088-1091.

1-Hydroxy-3-methylxanthone ($C_{14}H_{10}O_3$; MW=226.23) **[H-88]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
305.15	74	1.33	*778*
	112	2.13	526
	152	2.75	633
	193	3.71	819
	233	4.62	991
	274	5.75	1201
	314	6.34	1296
	355	6.77	1359
318.15	74	0.49	471
	112	1.06	340

	152	2.39	623
	193	3.73	901
	233	4.96	1140
	274	6.11	1359
	314	7.50	1621
	355	8.32	1755
328.15	74	0.17	183
	112	0.57	258
	152	2.41	713
	193	3.31	867
	233	5.16	1263
	274	7.98	1861
	314	9.19	2069
	355	9.73	2132
338.15	74	0.14	168
	112	0.44	259
	152	1.98	686
	193	3.35	961
	233	4.92	1290
	274	8.57	2117
	314	9.93	2344
	355	10.53	2406
348.15	74	0.15	196
	112	0.52	359
	152	1.43	583
	193	2.95	942
	233	5.14	1452
	274	9.22	2413
	314	10.97	2725
	355	12.65	3022



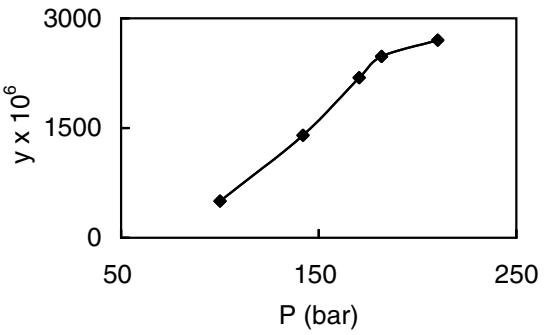
1: The y value at 305.15 K and 74 bar in the source did not agree with S and thus was re-calculated based on the S value.

Synonym: 1-Hydroxy-3-methyl-9*H*-xanthen-9-one

Source: Ghiasvand, A. R.; Hosseini, M.; Sharghi, H.; Yamini, Y.; Shamsipur, M. *J. Chem. Eng. Data* (1999), 44(6), 1135-1138.

2-Hydroxy-1-naphthaldehyde ($C_{11}H_8O_2$; MW=172.18) **[H-89]**

T (K)	P[1)] (bar)	y[1)] x 10^6
308.15	100	500
	142	1400
	170	2190
	182	2480
	210	2700



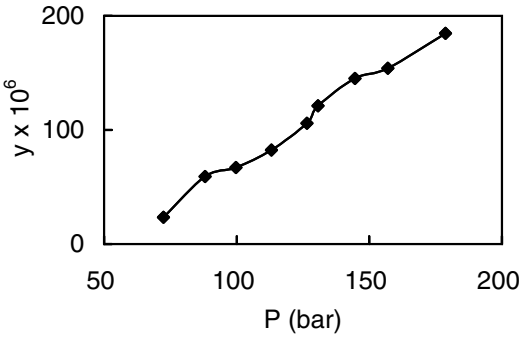
1: Obtained by digitizing the graph in the original article.

Synonym: 1-Formyl-2-naphthol

Source: Nakatani, T.; Ohgaki, K.; Katayama, T. *Ind. Eng. Chem. Res.* (1991), 30(6), 1362-1366.

4-Hydroxypyrimidine ($C_4H_4N_2O$; MW=96.09) **[H-90]**

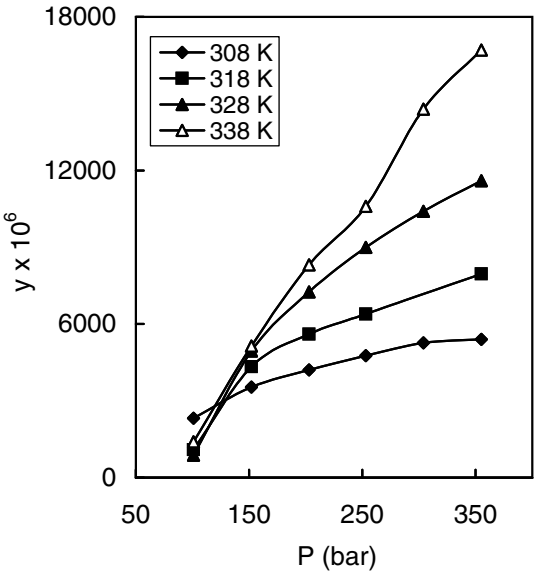
T (K)	P (bar)	y x 10^6
308.15	72.4	23.4
	88.1	59.3
	99.7	67.0
	113.1	82.5
	126.5	105.9
	130.7	121.2
	144.6	145.2
	157.0	154.2
	178.7	184.6



Synonyms: 4-Pyrimidone; 4(1*H*)-Pyrimidinone
Source: Nakatani, T.; Tohdo, T.; Ohgaki, K.; Katayama, T. *J. Chem. Eng. Data* (1991), 36(3), 314-316.

8-Hydroxyquinoline (C_9H_7NO; MW=145.16) **[H-91]**

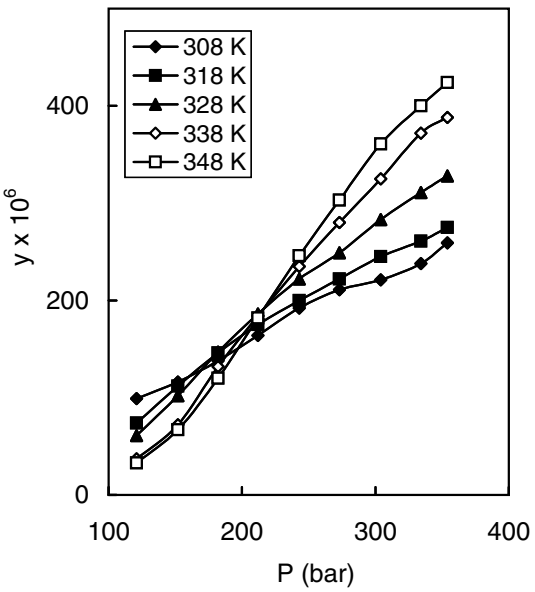
T (K)	P (bar)	S (g/L)	y x 10^6
308	101	5.5	2320
	152	9.6	3540
	203	12.1	4210
	253	14.3	4770
	304	16.3	5270
	355	17.1	5400
318	101	1.8	1090
	152	10.7	4330
	203	15.2	5610
	253	18.2	6390
	355	24.4	7960
328	101	1.0	870
	152	10.8	4950
	203	18.2	7260
	253	24.4	9000
	304	29.6	10400
	355	34.3	11600
338	101	1.3	1400
	152	9.6	5140
	203	19.2	8310
	253	27.1	10600
	304	39.3	14400
	355	47.6	16700



Synonym: 8-Quinolinol
Source: Shamsipur, M.; Ghiasvand, A. R.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(5), 1483-1486.

1-Hydroxythioxanthone ($C_{13}H_8O_2S$; MW=228.27) **[H-92]**

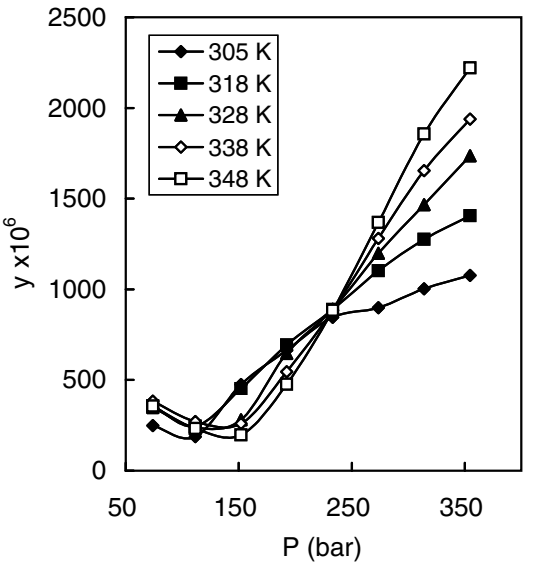
T (K)	P (bar)	S (g/L)	y x 10^6
308	121	0.40	99
	152	0.49	116
	182	0.61	138
	212	0.75	164
	243	0.89	192
	273	1.00	211
	304	1.07	221
	334	1.17	238
	354	1.28	259
318	121	0.25	74
	152	0.43	112
	182	0.60	146
	212	0.75	175
	243	0.88	200
	273	1.01	222
	304	1.14	245
	334	1.23	261
	354	1.31	275
328	121	0.16	61
	152	0.35	102
	182	0.55	147
	212	0.74	186
	243	0.92	222
	273	1.07	249
	304	1.25	283
	334	1.41	311
	354	1.50	328
338	121	0.08	37
	152	0.21	72
	182	0.45	132
	212	0.68	184
	243	0.92	235
	273	1.14	280
	304	1.37	325
	334	1.61	372
	354	1.71	388
348	121	0.06	33
	152	0.17	67
	182	0.36	120
	212	0.62	182
	243	0.89	246
	273	1.16	303
	304	1.45	361
	334	1.65	400
	354	1.78	424



Synonym: 1-Hydroxy-9*H*-thioxanthen-9-one
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H.; Salimi, A. R. *J. Chem. Eng. Data* (2003), 48(5), 1088-1091.

1-Hydroxyxanthone ($C_{13}H_8O_3$; MW=212.20) **[H-93]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
305.15	74	0.40	249
	112	0.71	188
	152	1.93	475
	193	2.82	665
	233	3.71	846
	274	4.04	899
	314	4.60	1003
	355	5.03	1076
318.15	74	0.35	357
	112	0.72	245
	152	1.63	453
	193	2.69	693
	233	3.63	889
	274	4.65	1102
	314	5.31	1275
	355	6.24	1406
328.15	74	0.30	348
	112	0.50	239
	152	0.89	281
	193	2.32	647
	233	3.41	890
	274	4.81	1198
	314	6.11	1467
	355	7.43	1736
338.15	74	0.30	384
	112	0.43	271
	152	0.70	260
	193	1.78	545
	233	3.16	884
	274	4.86	1281
	314	6.57	1654
	355	7.95	1938
348.15	74	0.25	356
	112	0.31	233
	152	0.45	197
	193	1.40	477
	233	2.93	884
	274	4.90	1369
	314	7.00	1856
	355	8.71	2220

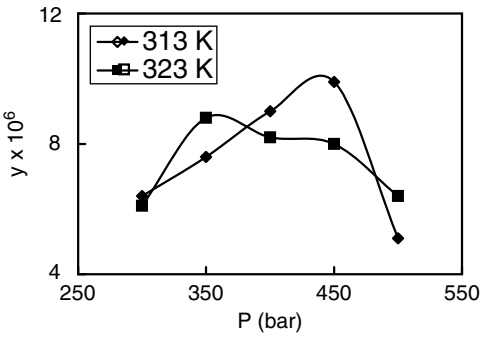


1: The y value at 305.15 K and 74 bar in the source did not agree with S and thus was re-calculated based on the S value.
Synonym: 1-Hydroxy-9*H*-xanthen-9-one
Source: Ghiasvand, A. R.; Hosseini, M.; Sharghi, H.; Yamini, Y.; Shamsipur, M. *J. Chem. Eng. Data* (1999), 44(6), 1135-1138.

9 Solubility Data I

Imipramine hydrochloride ($C_{19}H_{24}N_2$·ClH; FW=316.87) **[I-1]**

T (K)	P (bar)	y x 10^6
313.15	300	6.4
	350	7.6
	400	9.0
	450	9.9
	500	5.1
323.15	300	6.1
	350	8.8
	400	8.2
	450	8.0
	500	6.4

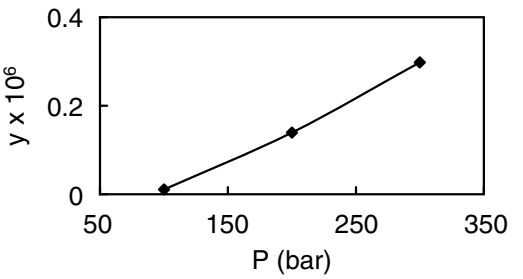


Synonym: 5-[3-(Dimethylamino)propyl]-10,11-dihydro-5H-dibenz[*b,f*]azepine Hydrochloride
Source: Jara-Morante, E.; Suleiman, D.; Estevez, L. A. *Ind. Eng. Chem. Res.*(2003), 42(8), 1821-1823.

Indium tris(acetylacetonate) ($C_{15}H_{21}InO_6$; FW=412.15) **[I-2]**

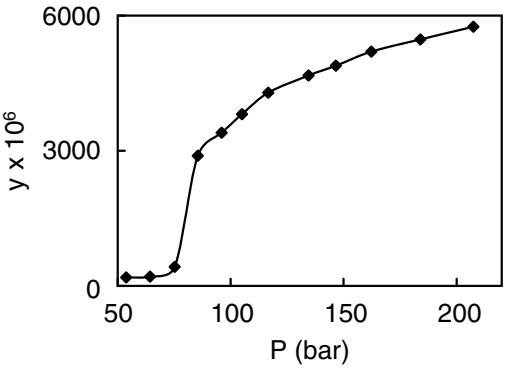
T (K)	P[1)] (bar)	S[1)] (mg/L)	y[2)] x 10^6
333	100	0.03	0.011
	200	0.95	0.139
	300	2.32	0.298

1: Obtained by digitizing from the original article.
2. Calculated from S.
Synonym: Tris(2,4-pentanedionato)indium
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Indole (C_8H_7N; MW=117.15) **[I-3]**

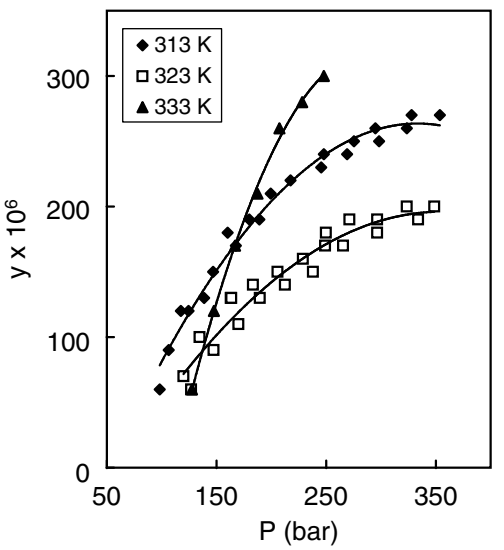
T (K)	P (bar)	y x 10^6
308.15	53.8	188
	64.3	204
	75.2	424
	85.4	2890
	96.0	3400
	105.0	3810
	116.6	4290
	134.5	4670
	146.5	4890
	162.3	5200
	184.0	5470
	207.5	5750



Synonyms: 1*H*-Indole; 2,3-Benzopyrrole
Source: Sako, S.; Ogaki, K.; Katayama, T. *J. Supercrit. Fluids* (1988), 1(1), 1-6.

Iron tris(acetylacetonate) ($C_{15}H_{21}FeO_6$; FW=353.17) **[I-4]**

T (K)	P (bar)	S (g/L)	y x 10^6
313	98.2	0.28	60
	106.3	0.47	90
	117.4	0.66	120
	124.6	0.72	120
	138.8	0.79	130
	147.0	0.95	150
	160.1	1.14	180
	167.7	1.13	170
	180.0	1.23	190
	189.2	1.28	190
	199.5	1.39	210
	217.6	1.50	220
	245.5	1.59	230
	247.8	1.67	240
	269.2	1.74	240
	275.4	1.79	250
	295.0	1.90	260
	298.2	1.85	250
	323.6	1.96	260
	328.0	1.97	270
	353.7	2.05	270
323	119.9	0.32	70
	126.8	0.31	60
	134.6	0.55	100
	147.5	0.51	90
	163.1	0.74	130
	163.5	0.75	130
	170.0	0.65	110
	183.3	0.84	140

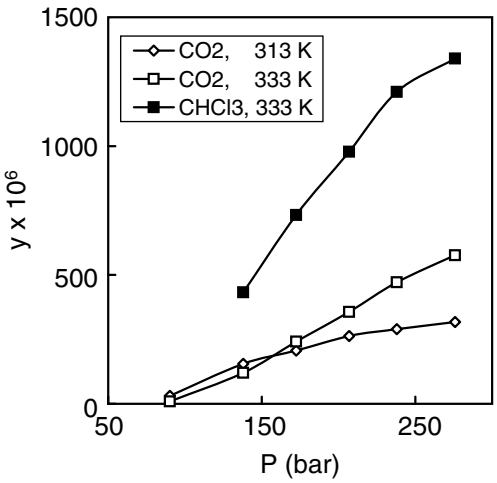


	189.6	0.80	130
	205.6	0.92	150
	212.5	0.92	140
	228.9	1.04	160
	238.0	1.02	150
	249.2	1.14	170
	249.9	1.19	180
	265.5	1.14	170
	271.3	1.29	190
	296.5	1.36	190
	296.7	1.28	180
	323.6	1.39	200
	334.0	1.36	190
	348.6	1.46	200
333	127.6	0.24	60
	147.7	0.56	120
	166.9	0.91	170
	187.4	1.21	210
	207.4	1.51	260
	228.2	1.74	280
	247.8	1.91	300

Synonyms: Fe(acac)$_3$; Tris(2,4-pentanedionato)iron
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

Iron tris(acetylacetonate) ($C_{15}H_{21}FeO_6$; FW=353.17) **[I-5]**

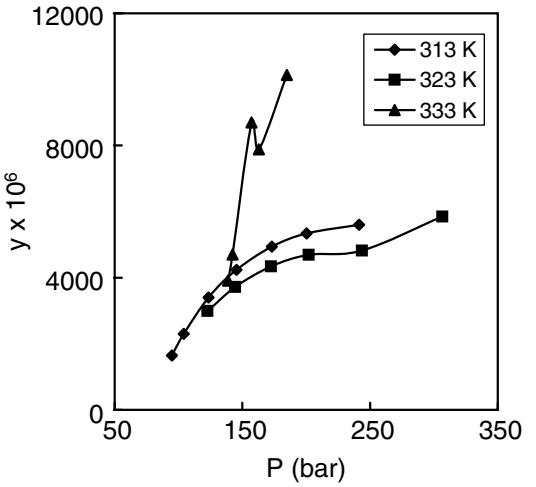
T (K)	P (bar)	$CHCl_3$[1)] (mol %)	y x 10^6
313.15	90.1	0	31
	137.9	0	155
	172.4	0	207
	206.9	0	263
	237.9	0	290
	275.8	0	317
333.15	90.1	0	9
	137.9	0	120
	172.4	0	241
	206.9	0	357
	237.9	0	472
	275.8	0	576
333.15	137.9	3	433
	172.4	3	733
	206.9	3	978
	237.9	3	1210
	275.8	3	1340



1 : Cosolvent in CO_2.
Synonyms: Fe(acac)$_3$; Tris(2,4-pentanedionato)iron
Source: Roggeman, E. J. ; Scurto, A. M. ; Brennecke, J. F. *Ind. Eng. Chem. Res.* (2001), 40(3), 980-989.

Iron tris(2,2,6,6-tetramethyl-3,5-heptanedionate) ($C_{33}H_{57}FeO_6$; FW=605.65) **[I-6]**

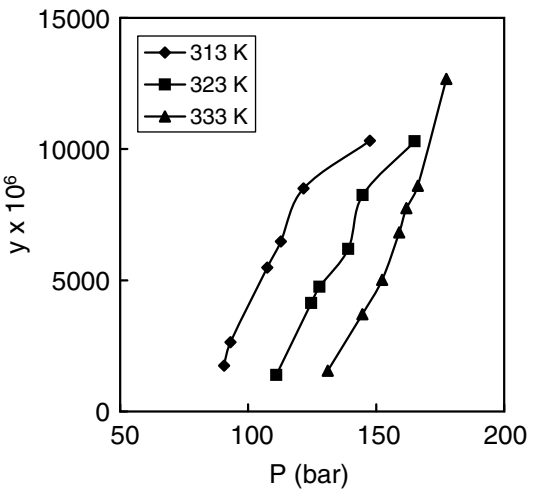
T (K)	P (bar)	y x 10^6
313	94.8	1640
	104.0	2300
	123.6	3400
	145.4	4240
	173.0	4940
	200.4	5340
	241.5	5600
323	122.7	2990
	144.4	3720
	172.5	4340
	202.0	4690
	243.7	4820
	306.7	5850
333	138.8	3910
	142.2	4700
	157.1	8700
	163.0	7880
	184.8	10130



Synonyms: $Fe(thd)_3$; Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)iron
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

Iron tris(2,2,7-trimethyl-3,5-octanedionate) ($C_{33}H_{57}FeO_6$; FW=605.65) **[I-7]**

T (K)	P (bar)	y x 10^6
313	90.6	1750
	93.1	2640
	107.5	5480
	112.8	6480
	121.6	8500
	147.5	10320
323	111.0	1390
	124.6	4130
	127.9	4750
	139.1	6200
	144.7	8250
	165.0	10300
333	131.1	1550
	144.6	3710
	152.3	5020
	159.0	6820
	161.8	7750
	166.3	8600
	177.4	12670



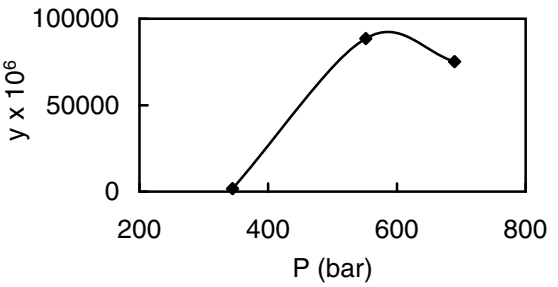
Synonyms: $Fe(tod)_3$; Tris(2,2,7-trimethyl-3,5-octanedionato)iron
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

10 Solubility Data J

Jojoba bean oil[1)] **[J-1]**

T (K)	P (bar)	y x 10^6
345.15	345	1740
	552	88500
	690	75160

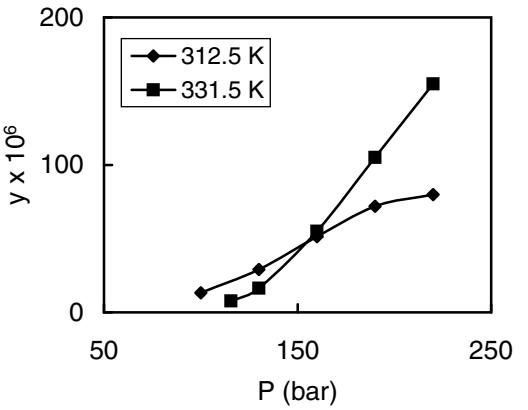
1: Extract of *Simmondsia chinensis* nuts.
Synonym: Jojoba wax
Source: Eissler, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.



11 Solubility Data K

Ketoprofen ($C_{16}H_{14}O_3$; MW=254.28) **[K-1]**

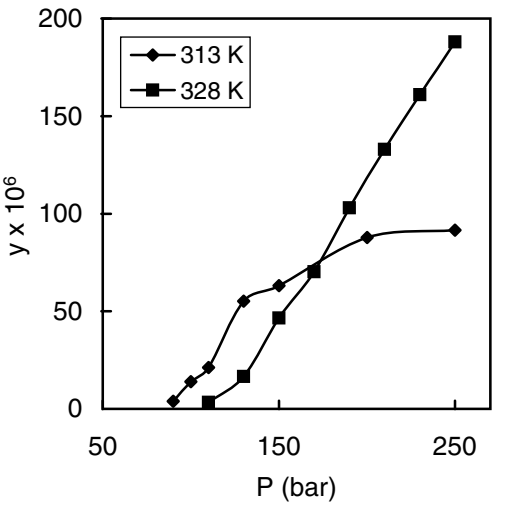
T (K)	P (bar)	y x 10^6
312.5	100	13.3
	130	29.0
	160	51.4
	190	72.0
	220	79.8
331.5	116	7.8
	130	16.3
	160	55.0
	190	105.0
	220	155.0



Synonyms: *m*-Benzoylhydratropic acid; 2-(3-Benzoylphenyl)propionic acid
Source: Macnaughton, S. J.; Kikic, I.; Foster, N. R.; Alessi, P.; Cortesi, A.; Colombo, I. *J. Chem. Eng. Data* (1996), 41(5), 1083-1086.

Ketoprofen ($C_{16}H_{14}O_3$; MW=254.28) **[K-2]**

T (K)	P (bar)	y x 10^6
313	90	3.9
	100	13.9
	110	21.2
	130	55.2
	150	63.2
	200	87.8
	250	91.5
328	110	3.3
	130	16.6
	150	46.6
	170	70.3
	190	103.0
	210	133.0

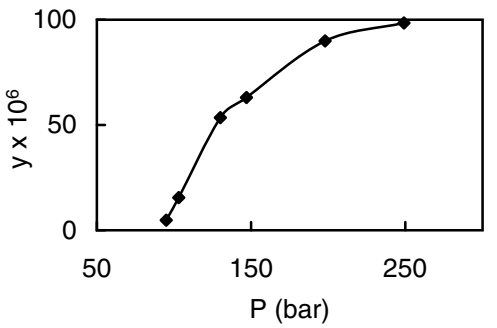


	230	161.0
	250	188.0

Synonyms: *m*-Benzoylhydratropic acid; 2-(3-Benzoylphenyl)propionic acid
Source: Stassi, A.; Bettini, R.; Gazzaniga, A.; Giordano, F.; Schiraldi, A. *J. Chem. Eng. Data* (2000), 45(2), 161-165.

Ketoprofen ($C_{16}H_{14}O_3$; MW=254.28) **[K-3]**

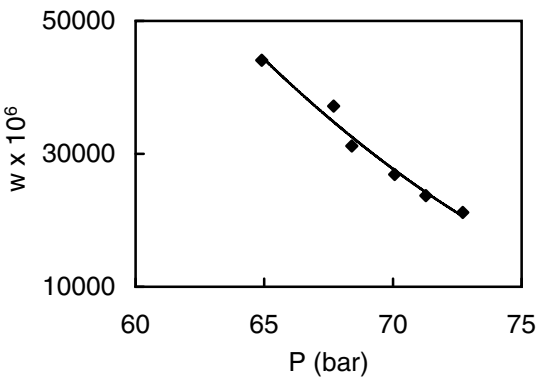
T (K)	P (bar)	y x 10^6
313	95	4.8
	103	15.5
	130	53.5
	147	63.0
	198	89.9
	249	98.5



Synonyms: *m*-Benzoylhydratropic acid; 2-(3-Benzoylphenyl)propionic acid
Source: Weinstein, R. D.; Muske, K. R.; Moriarty, J.; Schmidt, E. K. *J. Chem. Eng. Data* (2004), 49(3), 547-552.

Krytox dithiol[1)] **[K-4]**

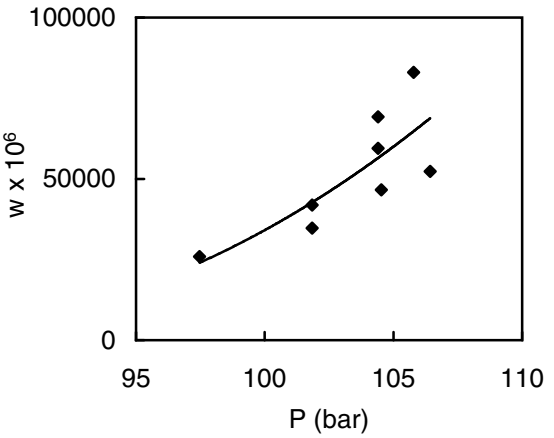
T (K)	P (bar)	w x 10^6
298.15	64.9	44100
	67.7	37200
	68.4	31200
	70.1	26900
	71.3	23700
	72.7	21200



1: Prepared from DuPont's Krytox FSL functional oil, consisting of oligomers of hexafluoropropylene oxide capped with carboxylic acid group, via reaction with thionyl chloride, followed by reaction with 2,3-dithio-1-propanol.
Source: Yazdi, A. ; Beckman, E. *J. Mat. Res. Soc. Symp. Proc.* (1994), 344, 211-216.

Krytox picolyl amine[1)] **[K-5]**

T (K)	P (bar)	w x 10^6
298.15	97.5	25900
	101.8	34700
	101.8	41900
	104.4	59500
	104.4	69200
	104.5	46600
	105.8	83000
	106.4	52300



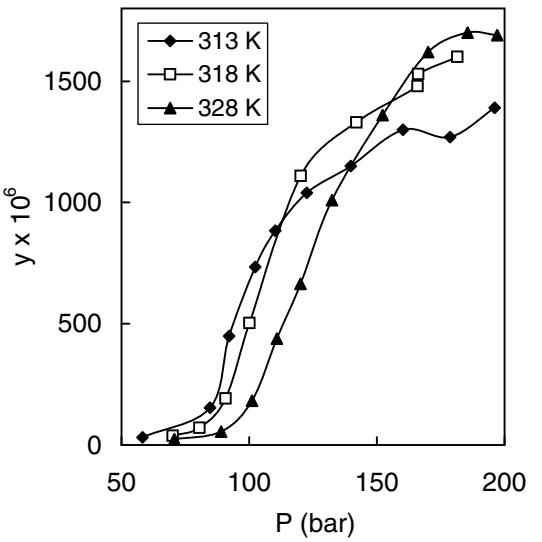
1: Prepared from DuPont's Krytox FSL functional oil, consisting of oligomers of hexafluoropropylene oxide capped with carboxylic acid group, via reaction with thionyl chloride, followed by reaction with picolyl amine.

Source: Yazdi, A. ; Beckman, E. J. *Mat. Res. Soc. Symp. Proc.* (1994), 344, 211-216.

12 Solubility Data L

Lactic acid ($C_3H_6O_3$; MW=90.08) **[L-1]**

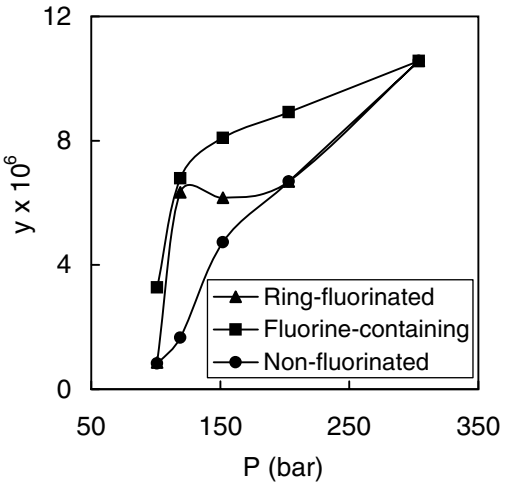
T (K)	P (bar)	y x 10^6
313	58	32
	85	153
	92	449
	102	734
	110	883
	123	1040
	140	1150
	160	1300
	179	1270
	196	1390
318	70	38
	81	71
	91	192
	100	503
	120	1110
	142	1330
	166	1480
	166	1530
	182	1600
328	71	24
	89	55
	101	183
	111	439
	120	664
	132	1010
	152	1360
	170	1620
	186	1700
	197	1690



Synonym: 2-Hydroxypropanoic acid
Source: Gregorowicz, *J. Fluid Phase Equil.* (1999), 166(1), 39-46.

Lariat ether carboxylic acid **[L-2]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
Ring-fluorinated lariat ether carboxylic acid[2)]			
323.15	101	7.9	0.86
	119	84.0	6.34
	152	99.0	6.16
	203	120.0	6.69
	304	210.0	10.57
Fluorine-containing lariat ether carboxylic acid[3)]			
323.15	101	30.0	3.28
	119	90.0	6.79
	152	130.0	8.09
	203	160.0	8.92
	304	210.0	10.57
Non-fluorinated lariat ether carboxylic acid[4)]			
323.15	101	7.6	0.83
	119	22.0	1.66
	152	76.0	4.73
	203	120.0	6.69
	304	210.0	10.57

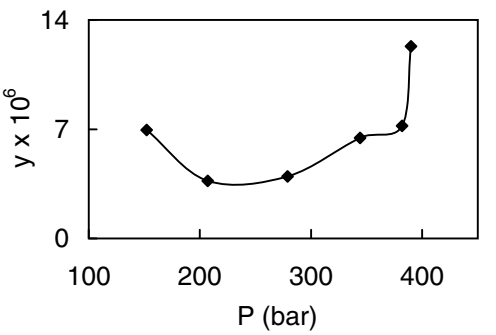


1: Calculated from M.
2: *sym*-3(6),3'(6')-Difluorodibenzo-16-crown-5-oxyacetic acid ($C_{21}H_{22}F_2O_8$; MW=440.40).
3: *sym*-[3,5-Di(trifluoromethyl)phenyl]dibenzo-16-crown-5-oxyacetic acid ($C_{29}H_{26}F_6O_8$; MW=616.51).
4: *sym*-Dibenzo-16-crown-5-oxyacetic acid ($C_{21}H_{24}O_8$; MW=404.42).

Source: Elshani, S.; Du, H.; Laintz, K. E.; Natale, N. R.; Wai, C. M.; Elkarim, N. S. A.; Bartsch, R. A. *Tetrahedron* (2000), 56(27), 4651-4657.

Lasalocid sodium salt ($C_{34}H_{53}NaO_8$; FW=612.78) **[L-3]**

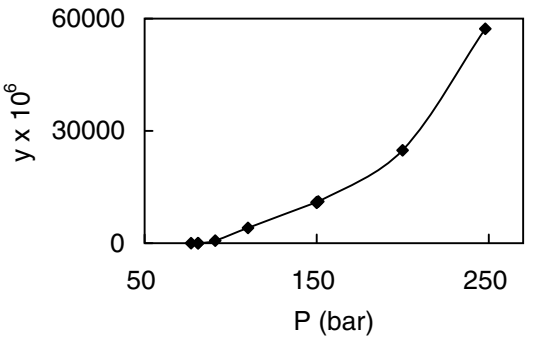
T (K)	P (bar)	Methanol (wt%)	y x 10^6
353.15	152	1	6.95
	207	1	3.68
	279	1	3.98
	344	1	6.44
	382	1	7.22
	390	1	12.30



Source: Maxwell, R.; Hampson, J.; Cygnarowicz-Provost, M. *J. Supercrit. Fluids* (1992), 5(1), 31-37.

Lauric acid ($C_{12}H_{24}O_2$; MW=200.32) **[L-4]**

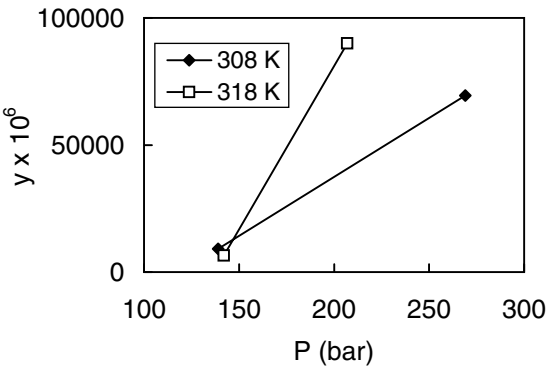
T (K)	P (bar)	y x 10^6
313	77	0.4
	81	23.6
	81	6.0
	91	678.0
	110	4060.0
	150	11000.0
	150	10800.0
	151	11100.0
	200	24800.0
	248	57300.0



Synonym: Dodecanoic acid
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.

Lauric acid ($C_{12}H_{24}O_2$; MW = 200.32) **[L-5]**

T (K)	P (bar)	W (g/kg CO_2)	y[1)] x 10^6
308	139	42	9100
	269	340	69500
318	142	30	6500
	207	450	90000



1: Calculated from W.
Synonym: Dodecanoic acid
Source: Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-1076.

Lead bis(diisopropyldithiocarbamate) ($C_{14}H_{28}N_2PbS_4$; FW=559.83) **[L-6]**

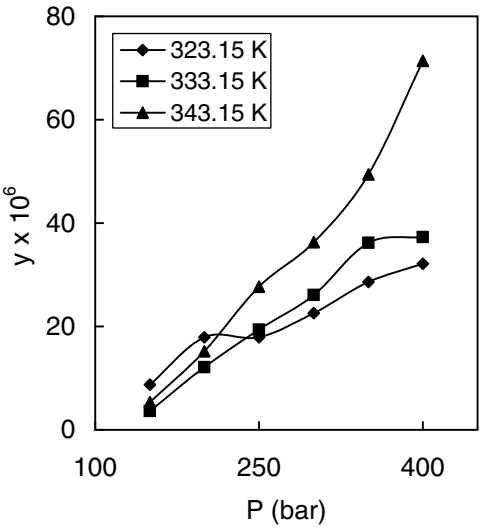
T (K)	P (bar)	M x 10^5 (mol/L)	y[1)] x 10^6
323.15	150	14.0	8.8
	200	32.0	17.9
	250	34.1	17.9
	300	44.8	22.6
	350	58.5	28.6
	400	67.5	32.1

333.15	150	5.0	3.6
	200	20.0	12.1
	250	34.7	19.4
	300	49.3	26.1
	350	71.1	36.2
	400	75.5	37.3
343.15	150	6.2	5.3
	200	22.8	15.2
	250	46.6	27.7
	300	65.2	36.3
	350	92.9	49.4
	400	139.2	71.4

1: Calculated from M.

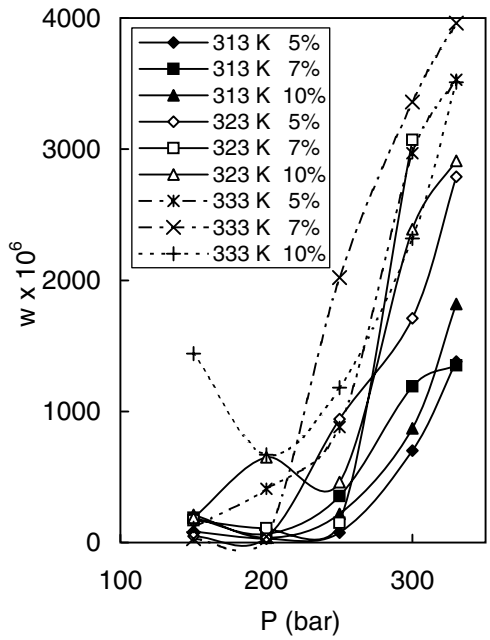
Synonym: Bis(diisopropyldithiocarbamato)lead

Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: Supercritical Fluids as Solvents and Reaction Media, Brunner, G. (ed.), Elsevier B. V., Amsterdam, Netherlands (2004), 323-340. (*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)



Lecithin S20[1)] **[L-7]**

T(K)	P(bar)	Ethanol[2)] (wt%)	W[3)] (g/kg CO_2)	w[4)] x 10^6
313	150	5	0.09	86
	200	5	0.03	29
	250	5	0.08	76
	300	5	0.73	700
	330	5	1.45	1380
	150	7	0.20	190
	200	7	0.07	65
	250	7	0.38	355
	300	7	1.27	1190
	330	7	1.45	1350
	150	10	0.23	210
	200	10	0.04	36
	250	10	0.24	218
	300	10	0.96	872
	330	10	2.00	1820
323	150	5	0.05	48
	200	5	0.04	38
	250	5	0.99	940
	300	5	1.80	1710
	330	5	2.94	2790
	150	7	0.18	170
	200	7	0.12	110
	250	7	0.16	150
	300	7	3.29	3070

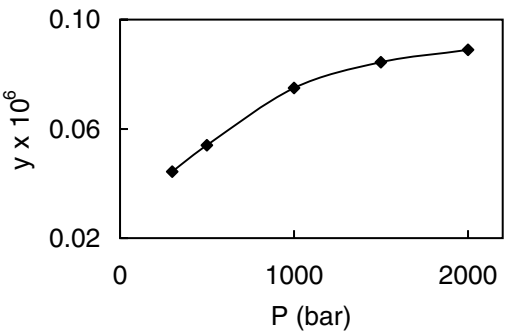


	150	10	0.21	190
	200	10	0.71	650
	250	10	0.51	460
	300	10	2.64	2390
	330	10	3.21	2910
333	150	5	0.13	120
	200	5	0.43	410
	250	5	0.93	880
	300	5	3.13	2970
	330	5	3.72	3530
	150	7	0.03	28
	200	7	0.05	47
	250	7	2.16	2020
	300	7	3.61	3360
	330	7	4.25	3960
	150	10	1.59	1440
	200	10	0.74	670
	250	10	1.30	1180
	300	10	2.56	2320
	330	10	3.87	3510

1: Product of Lipoid KG, Germany, that contains phosphatidylethanolamine (20-23%), phosphatidylinositol (10-14%), and phosphatidylethanolamine (13-16%).
2: Cosolvent in CO_2.
3: The total amount of phospholipids (phosphatidylcholine, phosphatidylinositol and phosphatidylethanolamine).
4: Calculated from W.
Source: Badens, E.; Magnan, C.; Charbit, G. *Biotech. Bioeng.* (2000), 72(2), 194-204.

L-Leucine ($C_6H_{13}NO_2$; MW=131.17) **[L-8]**

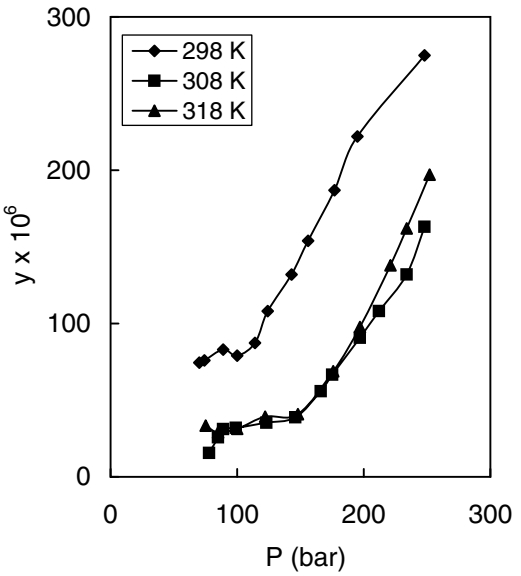
T (K)	P[1] (bar)	S[1] (µg/Nl[2])	y[3] x 10^6
313.15	300	0.26	0.044
	500	0.32	0.054
	1000	0.44	0.075
	1500	0.50	0.084
	2000	0.52	0.089



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: (*S*)-2-Amino-4-methylpentanoic acid; 4-Methyl-L-norvaline
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

Lidocaine ($C_{14}H_{22}N_2O$; MW=234.34) **[L-9]**

T (K)	P (bar)	y x 10^6
298	70	74.4
	74	75.9
	89	83.0
	100	79.0
	114	87.4
	124	108.0
	143	132.0
	156	154.0
	177	187.0
	195	222.0
	248	275.0
308	78	15.5
	85	25.7
	89	31.1
	99	32.0
	123	35.3
	146	38.8
	166	55.9
	175	66.7
	197	90.7
	212	108.0
	234	132.0
	248	163.0
318	75	33.3
	85	29.1
	100	31.4
	122	39.2
	148	40.9
	176	68.8
	197	97.8
	221	138.0
	234	162.0
	252	197.0

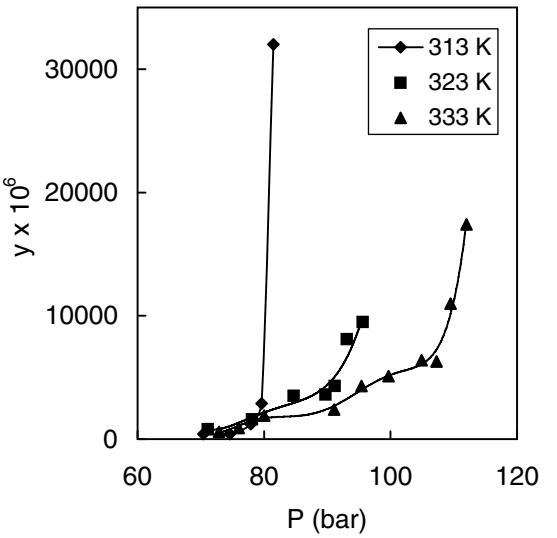


Synonyms: 2-(Diethylamino)-2',6'-acetoxylidide; 2 (Diethylamino)-*N*-(2,6-dimethylphenyl)acetamide

Source: Weinstein, R. D.; Muske, K. R.; Moriarty, J.; Schmidt, E. K. *J. Chem. Eng. Data* (2004), 49(3), 547-552.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-10]**

T (K)	P (bar)	y x 10^6
313	70.4	400
	74.6	400
	77.9	1200
	79.6	2900
	81.5	32000
323	71.1	800
	78.1	1600
	84.7	3500
	89.7	3600
	91.2	4300
	93.1	8100
	95.6	9500
333	72.9	600
	76.0	900
	80.0	1900
	91.1	2400
	95.4	4300
	99.7	5100
	104.9	6400
	107.3	6300
	109.5	11000
	112.0	17400

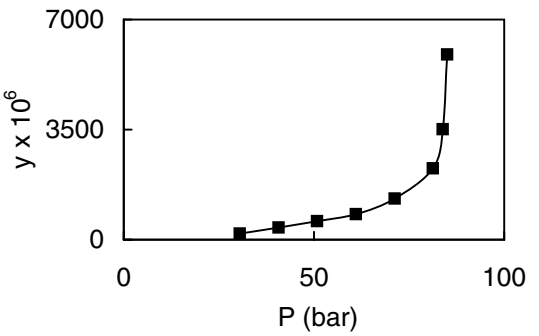


Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Akgun, M.; Akgun, N. A.; Dincer, S. *J. Supercrit. Fluids* (1999), 15, 117-125.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-11]**

T (K)	P (bar)	w x 10^6	$y^{1)}$ x 10^6
315	30.5	600	194
	40.7	1200	388
	50.8	1800	582
	61.0	2500	809
	71.2	4000	1300
	81.3	7000	2270
	83.9	10800	3510
	85.0	18000	5890

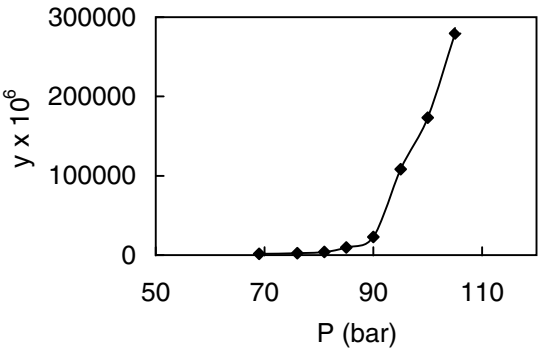
1: Calculated from w.



Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Benvenuti, F.; Gironi, F. *J. Chem. Eng. Data* (2001), 46(4), 795-799.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-12]**

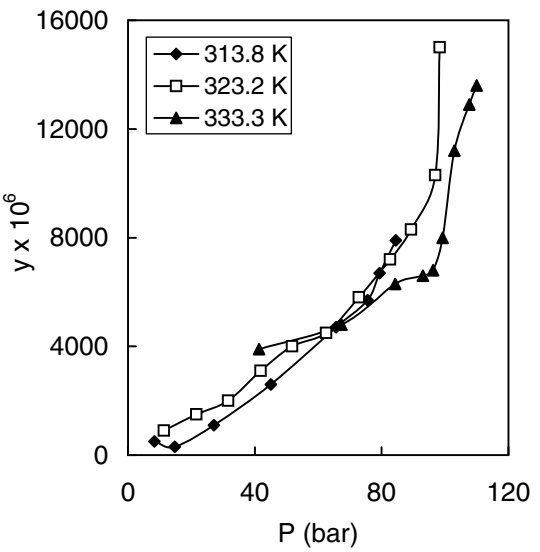
T (K)	P (bar)	y x 10^6
318.2	69	1700
	76	2410
	81	3940
	85	9530
	90	22920
	95	108300
	100	173200
	105	279700



Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Berna, A.; Chafer, A.; Monton, J. B. *J. Chem. Eng. Data*(2000), 45(5), 724-727.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-13]**

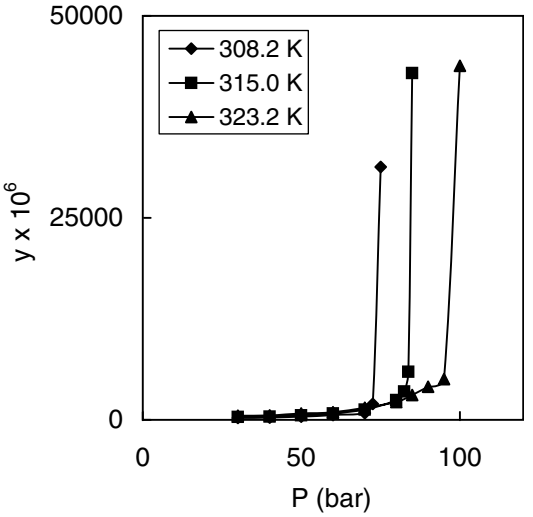
T (K)	P (bar)	y x 10^6
313.8	8.3	500
	14.7	300
	27.1	1100
	45.1	2600
	65.6	4700
	75.6	5700
	79.4	6700
	84.5	7900
323.2	11.3	900
	21.6	1500
	31.6	2000
	41.8	3100
	51.8	4000
	62.5	4500
	72.8	5800
	82.7	7200
	89.3	8300
	96.9	10300
	98.3	15000
333.3	41.3	3900
	67.3	4800
	84.3	6300
	93.0	6600
	96.2	6800
	99.2	8000
	102.9	11200
	107.7	12900
	110.0	13600



Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Chang, C.-M. J.; Chen, C.-C. *Fluid Phase Equil.* (1999), 163, 119-126.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-14]**

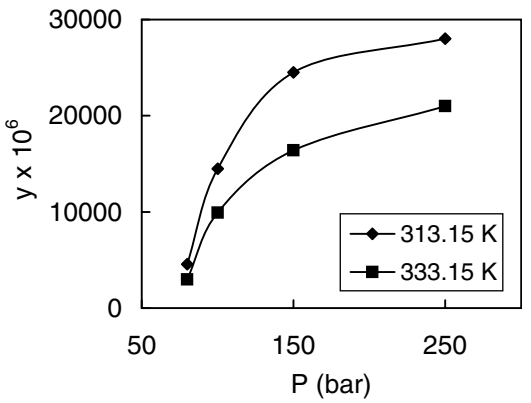
T (K)	P (bar)	y x 10^6
308.2	30	220
	40	290
	50	390
	60	610
	70	830
	73	1970
	75	31300
315.0	30	350
	40	390
	50	570
	60	790
	70	1270
	80	2460
	83	3490
	84	5930
	85	42900
323.2	30	530
	40	570
	50	790
	60	930
	70	1510
	80	2220
	85	3090
	90	4090
	95	5020
	100	43800



Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Di Giacomo, G.; Brandani, V.; Del Re, G.; Mucciante, V. *Fluid Phase Equil.* (1989), 52. 405-411.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-15]**

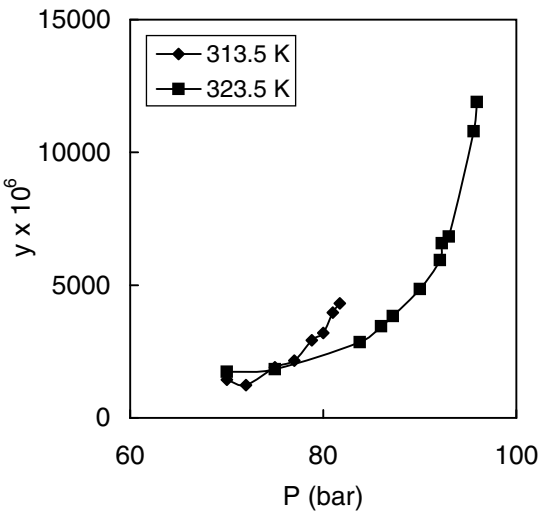
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.026	4550
	100	0.084	14500
	150	0.143	24500
	250	0.164	28000
333.15	80	0.017	2980
	100	0.057	9910
	150	0.095	16400
	250	0.122	21000



1: Obtained by digitizing the graph in the original article.
2: Solubility is based on 1liter of CO_2 at 293.15K and 1 atm.
3: Calculated from S.
Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Francisco, J. C.; Sivik, B. *J. Supercrit. Fluids* (2002), 23(1), 11-19.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-16]**

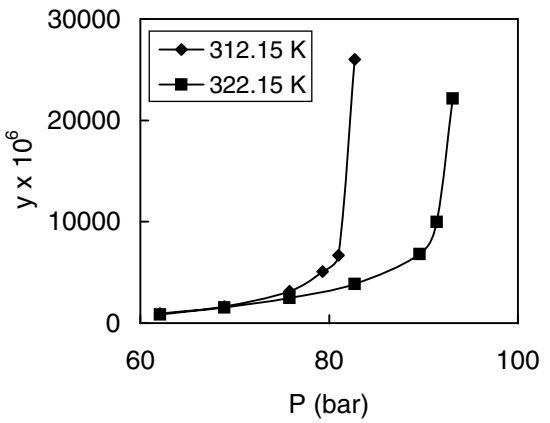
T (K)	P (bar)	y x 10^6
313.15	70.0	1440
	72.0	1230
	75.0	1900
	77.0	2160
	78.8	2920
	80.0	3200
	81.0	3960
	81.7	4310
323.15	70.0	1740
	75.0	1830
	83.8	2850
	86.0	3450
	87.2	3830
	90.0	4850
	92.1	5940
	92.3	6580
	93.0	6830
	95.6	10800
	95.9	11900



Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Sovova, H.; Zarevucka, M.; Vacek, M.; Stransky, K. *J. Supercrit. Fluids* (2001), 20(1), 15-28.

L-Limonene ($C_{10}H_{16}$; MW=136.23) **[L-17]**

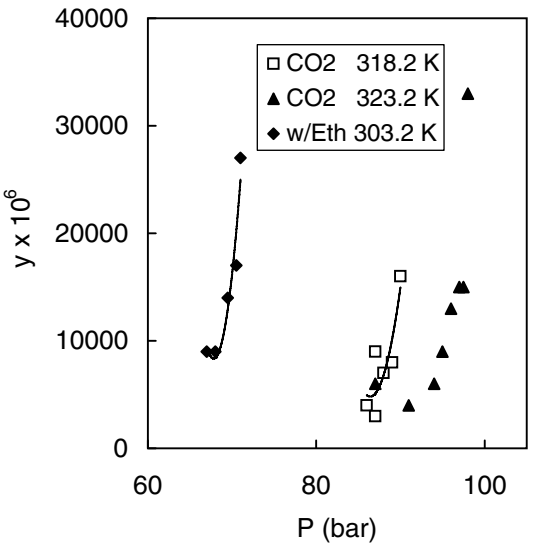
T (K)	P (bar)	y x 10^6
312.15	62.1	929
	68.9	1630
	75.8	3140
	79.3	5090
	81.0	6686
	82.7	26000
322.15	62.1	839
	68.9	1551
	75.8	2473
	82.7	3857
	89.6	6806
	91.4	9971
	93.1	22160



Synonyms: (4*S*)-4-Isopropenyl-1-methyl-1-cyclohexene; (*S*)-(–)-*p*-Mentha-1,8-diene
Source: Kim, K. H.; Hong, J. *Fluid Phase Equil.* (1999), 164(1), 107-115.

Limonene ($C_{10}H_{16}$; MW=136.23) **[L-18]**

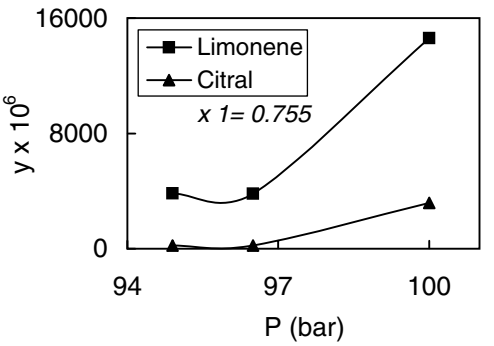
T (K)	P (bar)	Ethane[1)] (mol %)	$y_1 \times 10^6$
318.2	86.0	0.0	4000
	87.0	0.0	3000
	87.0	0.0	9000
	88.0	0.0	7000
	89.0	0.0	8000
	90.0	0.0	16000
323.2	87.0	0.0	6000
	91.0	0.0	4000
	94.0	0.0	6000
	95.0	0.0	9000
	96.0	0.0	13000
	97.0	0.0	15000
	97.5	0.0	15000
	98.0	0.0	33000
303.2	67.0	23.2	9000
	68.0	23.2	9000
	69.5	23.2	14000
	70.5	23.2	17000
	71.0	23.2	27000



1: Cosolvent in CO_2.
Synonyms: 4-Isopropenyl-1-methyl-1-cyclohexene; *p*-Mentha-1,8-diene
Source: Matos, H. A.; de Azevedo, E. G.; Simoes, P. C.; Carrondo, M. T.; da Ponte, N. M. *Fluid Phase Equil.* (1989), 52, 357-364.

Limonene (1) + Citral ($C_{10}H_{16}O$; MW=152.23) **(2) Mixture** **[L-19]**

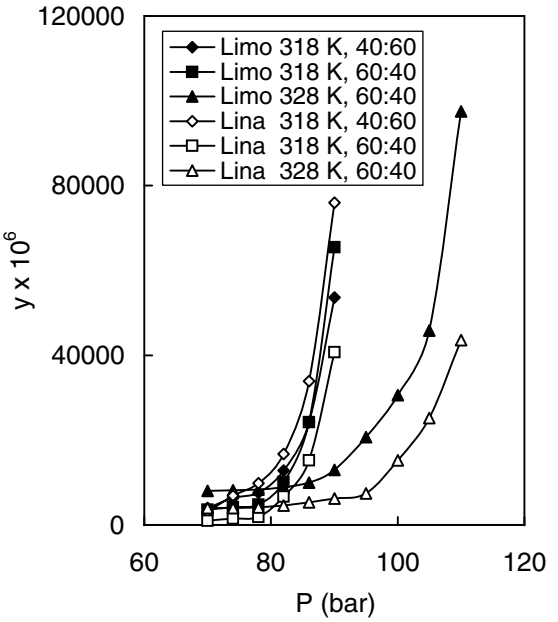
T (K)	P (bar)	x_1[1)]	$y_1 \times 10^6$	$y_2 \times 10^6$
323.2	94.9	0.775	3850	230
	95.0	0.972	4560	50
	96.5	0.776	3810	230
	100.0	0.028	130	1220
	100.0	0.779	14600	3170



1: Mole fraction of limonene in the liquid phase (solvent-free basis).
Synonym *of (2)*: 3,7-Dimethyl-2,6-octadienal
Source: Di Giacomo, G.; Brandani, V.; Del Re, G.; Mucciante, V. *Fluid Phase Equil.* (1989), 52. 405-411.

Limonene (1) + Linalool (2) Mixture[1)] **[L-20]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
Limonene(40 wt%) + Linalool(60 wt%)			
318.15	70	4000	3100
	74	6400	6900
	78	7600	9800
	82	12800	16700
	86	24200	33900
	90	53600	76000
Limonene(60 wt%) + Linalool(40 wt%)			
318.15	70	3600	1000
	74	4200	1500
	78	4800	1900
	82	10100	6700
	86	24200	15200
	90	65500	40700
328.15	70	8000	4000
	74	8200	4000
	78	8300	4100
	82	8900	4600
	86	10000	5300
	90	13000	6200
	95	20700	7400
	100	30600	15200
	105	45800	25200
	110	97500	43600

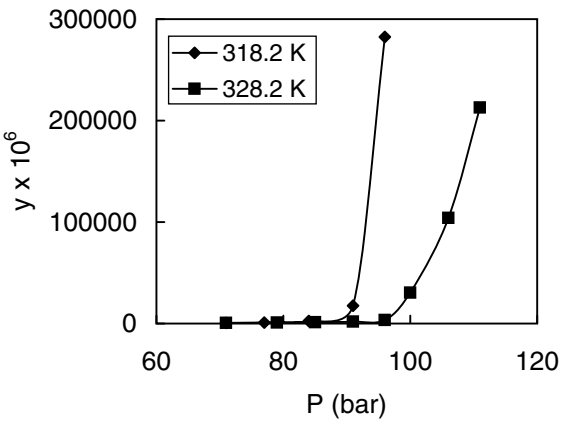


1: Solubility of each component was measured from the mixture.

Source: Chafer, A.; Berna, A.; Monton, J. B.; Mulet, A. *J. Chem. Eng. Data* (2001), 46(5), 1145-1148.

Linalool ($C_{10}H_{18}O$; MW=154.25) **[L-21]**

T (K)	P (bar)	$y \times 10^6$
318.2	71	680
	77	1050
	84	2530
	91	17400
	96	282600
328.2	71	690
	79	800
	85	1390
	91	1990
	96	3390
	100	30390
	106	104200
	111	212700

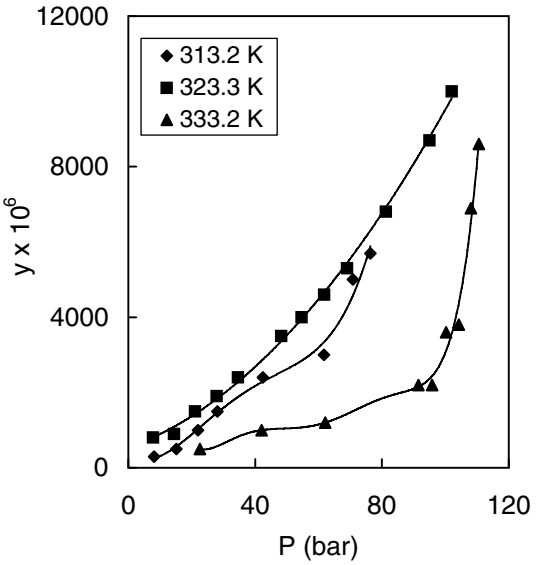


Synonym: 3,7-Dimethyl-1,6-octadien-3-ol

Source: Berna, A.; Chafer, A.; Monton, J. B. *J. Chem. Eng. Data* (2000), 45(5), 724-727.

Linalool ($C_{10}H_{18}O$; MW=154.25) **[L-22]**

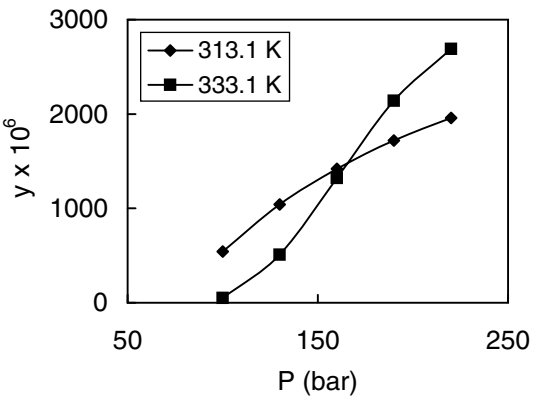
T (K)	P (bar)	y x 10^6
313.2	8.1	300
	15.2	500
	22.0	1000
	28.1	1500
	42.4	2400
	61.7	3000
	70.8	5000
	76.4	5700
323.3	7.8	800
	14.4	900
	21.1	1500
	27.9	1900
	34.6	2400
	48.3	3500
	54.7	4000
	61.8	4600
	69.0	5300
	81.3	6800
	95.0	8700
	102.0	10000
333.2	22.6	500
	42.0	1000
	62.1	1200
	91.5	2200
	95.8	2200
	100.2	3600
	104.2	3800
	108.1	6900
	110.6	8600



Synonym: 3,7-Dimethyl-1,6-octadien-3-ol
Source: Chang, C.-M. J.; Chen, C.-C. *Fluid Phase Equil.* (1999), 163, 119-126.

Lindane ($C_6H_6Cl_6$; MW=290.83) **[L-23]**

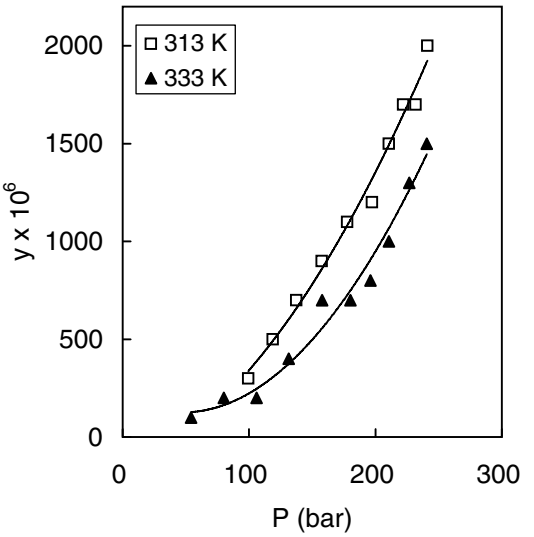
T (K)	P (bar)	y x 10^6
313.1	100	544
	130	1040
	160	1420
	190	1720
	220	1960
333.1	100	51
	130	510
	160	1320
	190	2140
	220	2690



Synonyms: γ-BHC; γ-1,2,3,4,5,6-Hexachlorocyclohexane
Source: Macnaughton, S. J.; Kikic, I.; Rovedo, G.; Foster, N. R.; Alessi, P. *J. Chem. Eng. Data* (1995), 40(3), 593-597.

Linoleic acid ($C_{18}H_{32}O_2$; MW= 280.45) **[L-24]**

T (K)	P(bar)	y x 10^6
313	99.4	300
	118.8	500
	137.3	700
	157.5	900
	177.7	1100
	197.4	1200
	210.7	1500
	222.0	1700
	231.8	1700
	241.0	2000
333	54.2	100
	80.0	200
	105.9	200
	131.4	400
	157.8	700
	180.2	700
	196.0	800
	210.6	1000
	226.8	1300
	240.6	1500

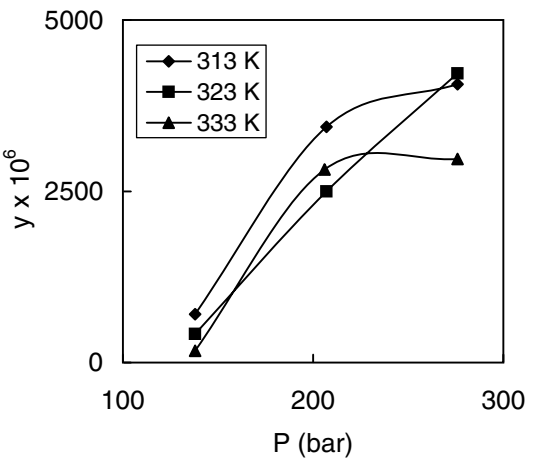


Synonym: (*Z*,*Z*)-9,12-Octadecadienoic acid
Source: Chen, C.-C.; Chang, C.-M. J.; Yang, P.-W. *Fluid Phase Equilibria* (2000), 175(1-2), 107-115.

Linoleic acid ($C_{18}H_{32}O_2$; MW= 280.45) **[L-25]**

T (K)	P (bar)	W (g/kg CO_2)	y[1)] x 10^6
313	138	4.5	705
	207	22.0	3440
	276	26.0	4060
323	138	2.7	420
	207	16.0	2500
	276	27.0	4220
333	138	1.1	173
	206	18.0	2820
	276	19.0	2970

1: Calculated from W.

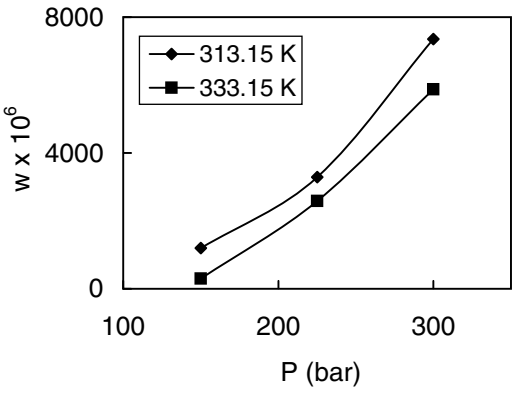


Synonym: (*Z*,*Z*)-9,12-Octadecadienoic acid
Source: Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-76. (*Another source*: Nikolov, Z.; Maheshwari, P.; Hardwick, J.; Murphy, P.; Johnson, L. *Dev. Food Sci.* (1992), 29, 595-616).

Lipids[1)] **[L-26]**

T (K)	P (bar)	W[2)](g/kg CO_2)	w[3)] x 10^6
313.15	150	1.2	1200
	225	3.3	3290
	300	7.4	7350
333.15	150	0.3	300
	225	2.6	2590
	300	5.9	5870

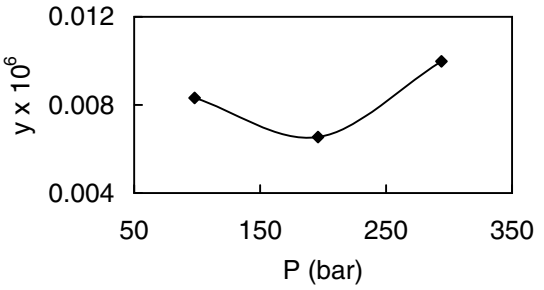
1: Lipids that were extracted from frying oil (hydrogenated soybean oil).
2: Mass solubility in CO_2 (solute-free basis).
3: Calculated from W.
Source: Yoon, J.; Han, B.-S.; Kang, Y.- C.; Kim, K. H.; Jung, M. Y.; Kwon, Y. A. *Food Chem.* (2000), 71(2), 275-279.



Lithium acetylacetonate ($C_5H_7LiO_2$; FW=106.05) **[L-27]**

T (K)	P[1)] (bar)	S[1)] (mg/L)	y[2)] x 10^6
333	98	0.0056	0.00831
	196	0.0113	0.00653
	294	0.0199	0.00998

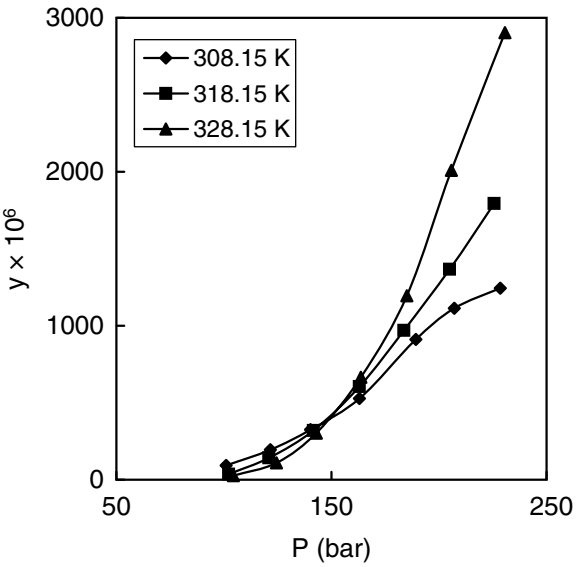
1: Obtained by digitizing the graph in the original article.
2. Calculated from S.
Synonyms: Bis(2,4-pentanedionato) lithium; Li(acac)
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



13 Solubility Data M

Mandelic acid ($C_8H_8O_3$; MW=152.15) **[M-1]**

T (K)	P (bar)	y × 10^6
308.15	101.0	93
	121.6	195
	140.3	326
	163.0	528
	189.2	912
	207.1	1114
	228.5	1243
318.15	102.3	36
	120.9	141
	141.6	320
	163.0	604
	183.7	970
	205.0	1366
	225.7	1794
328.15	104.4	27
	124.4	109
	143.0	303
	163.7	666
	185.1	1194
	205.7	2010
	230.6	2904



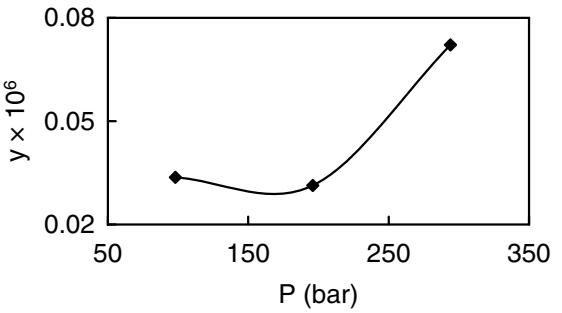
Synonyms: α-Hydroxybenzeneacetic acid; 2-Hydroxy-2-phenylacetic acid

Source: Cheng, K.-W.; Tang, M.; Chen, Y.-P. *Fluid Phase Equil.* (2002), 201(1), 79-96.

Manganese bis(acetylacetonate) dihydrate ($C_{10}H_{14}MnO_4 \cdot 2HO_2$; FW=289.19[1)]) **[M-2]**

T (K)	P[2)] (bar)	S[2)] (mg/L)	y[3)] × 10^6
333	98	0.062	0.0337
	196	0.148	0.0313
	294	0.392	0.0721

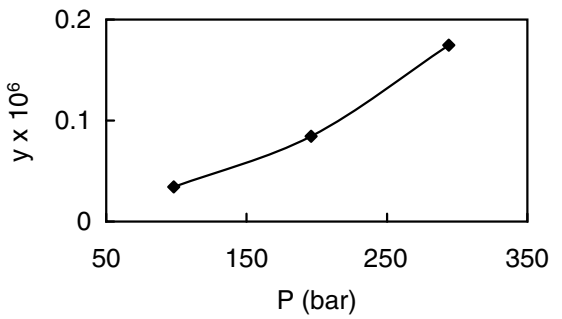
1: The mass of dihydrate is included.
2: Obtained by digitizing the graph in the original article.
3: Calculated from S.
Synonyms: Bis(2,4-pentanedionato) manganese dihydrate; $Mn(acac)_2 \cdot 2H_2O$
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Manganese tris(acetylacetonate) ($C_{15}H_{21}MnO_6$; FW=352.27) **[M-3]**

T (K)	P[1)] (bar)	S[1)] (mg/L)	y[2)] × 10^6
333	98	0.077	0.034
	196	0.493	0.084
	294	1.170	0.175

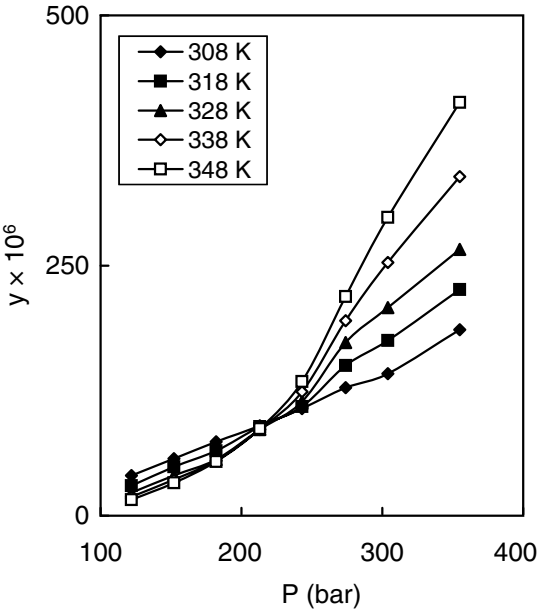
1: Obtained by digitizing the graph in the original article.
2. Calculated from S.
Synonyms: $Mn(acac)_3$; Tris(2,4-pentanedionato) manganese
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Medroxyprogesterone acetate ($C_{24}H_{34}O_4$; MW=386.52) **[M-4]**

T (K)	P (bar)	y × 10^6
308	122	40
	152	57
	182	74
	213	90
	243	107
	274	128
	304	142
	355	186
318	122	30
	152	49
	182	65
	213	89
	243	109

	274	150
	304	175
	355	226
328	122	23
	152	40
	182	56
	213	86
	243	114
	274	173
	304	208
	355	266
338	122	19
	152	36
	182	55
	213	86
	243	124
	274	195
	304	253
	355	339
348	122	16
	152	33
	182	54
	213	87
	243	134
	274	219
	304	298
	355	413

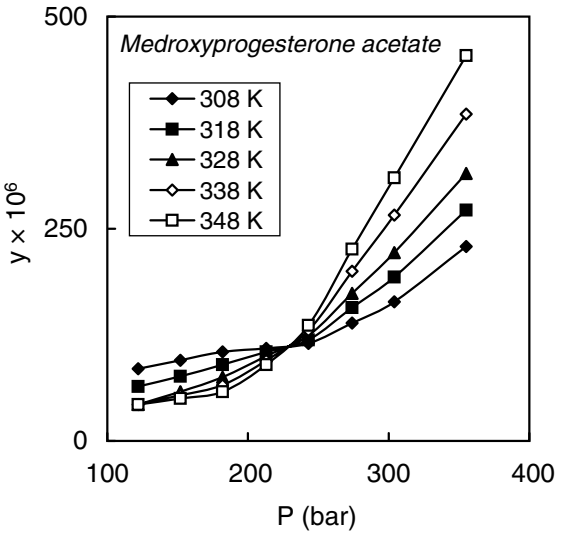


Synonym: 17α -Acetoxy-6α -methylprogesterone

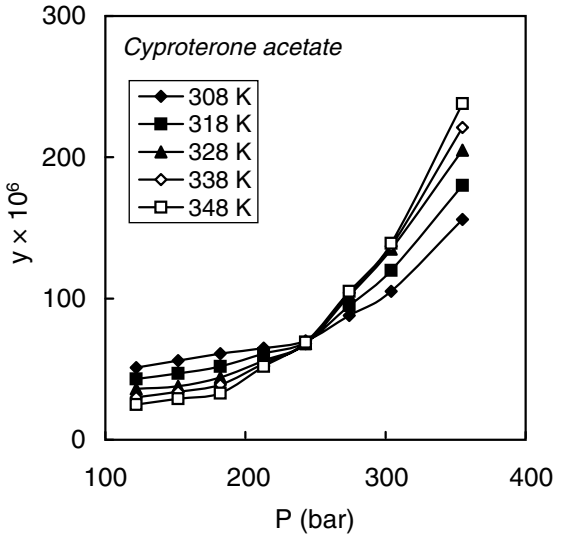
Source: Asghari-Khiavi, M.; Yamini, Y.; Farajzadeh, M. A. *J. Supercrit. Fluids* (2004), 30(2), 111-117.

Medroxyprogesterone acetate (1) + Cyproterone acetate (2) Mixture[1)] **[M-5]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	122	85	51
	152	95	56
	182	105	61
	213	109	65
	243	115	70
	274	139	88
	304	164	105
	355	229	156
318	122	64	43
	152	76	47
	182	90	52
	213	105	61
	243	119	69
	274	157	95
	304	193	120
	355	272	180



328	122	43	36
	152	58	38
	182	75	44
	213	100	56
	243	124	68
	274	174	102
	304	222	135
	355	315	205
338	122	43	30
	152	54	34
	182	66	39
	213	95	54
	243	130	68
	274	200	104
	304	266	137
	355	385	221
348	122	43	25
	152	50	29
	182	58	33
	213	90	52
	243	136	69
	274	226	105
	304	310	139
	355	454	238

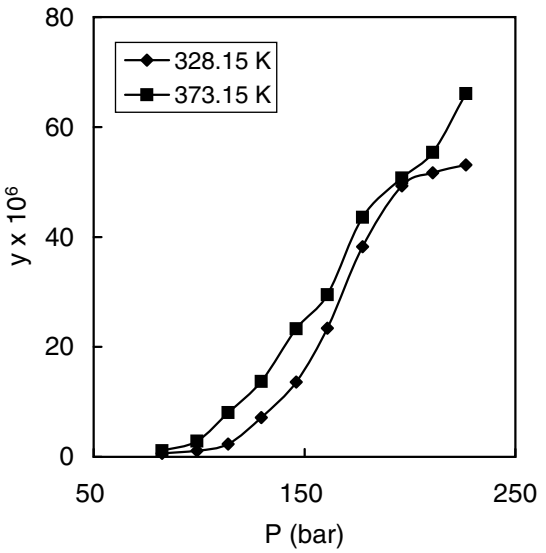


1: Solubility was measured from an equimolar mixture of 1 and 2.

Source: Asghari-Khiavi, M.; Yamini, Y.; Farajzadeh, M. A. *J. Supercrit. Fluids* (2004), 30(2), 111-117.

Megestrol acetate ($C_{24}H_{32}O_4$; MW=384.51) **[M-6]**

T (K)	P (bar)	y x 10^6
328.15	82.4	0.64
	99.0	1.09
	113.8	2.32
	129.4	7.16
	146.1	13.6
	160.8	23.4
	177.5	38.2
	196.1	49.3
	210.8	51.7
	226.5	53.1
373.15	82.4	1.09
	99.0	2.84
	113.8	8.06
	129.4	13.7
	146.1	23.3
	160.8	29.5
	177.5	43.6

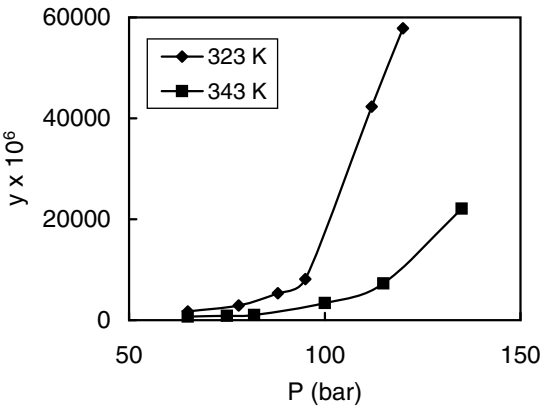


196.1	50.7
210.8	55.4
226.5	66.1

Synonym: 17α-Acetoxy-6-dehydro-6-methylprogesterone
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Menthol ($C_{10}H_{20}O$; MW=156.27) **[M-7]**

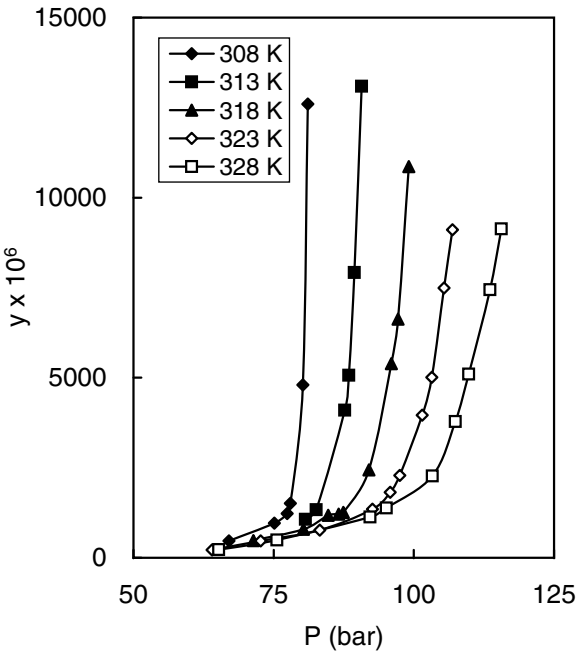
T (K)	P (bar)	y x 10^6
323	65	1720
	78	2890
	88	5331
	95	8127
	112	42310
	120	57830
343	65	720
	75	880
	82	1020
	100	3400
	115	7290
	135	22080



Synonym: 5-Methyl-2-(1-methylethyl) cyclohexanol
Source: Mukhopadhyay, M.; De, S. K. *J. Chem. Eng. Data* (1995), 40(4), 909-913.

Menthol ($C_{10}H_{20}O$; MW=156.27) **[M-8]**

T (K)	P (bar)	y x 10^6
308.15	67.0	470
	75.1	960
	77.4	1230
	78.0	1510
	80.2	4800
	81.1	12600
313.15	80.7	1070
	82.6	1330
	87.7	4100
	88.4	5070
	89.4	7920
	90.7	13090
318.15	71.4	480
	80.3	790
	84.7	1180
	86.6	1210
	87.4	1260
	92.0	2440
	96.0	5390
	97.2	6630
	99.1	10860

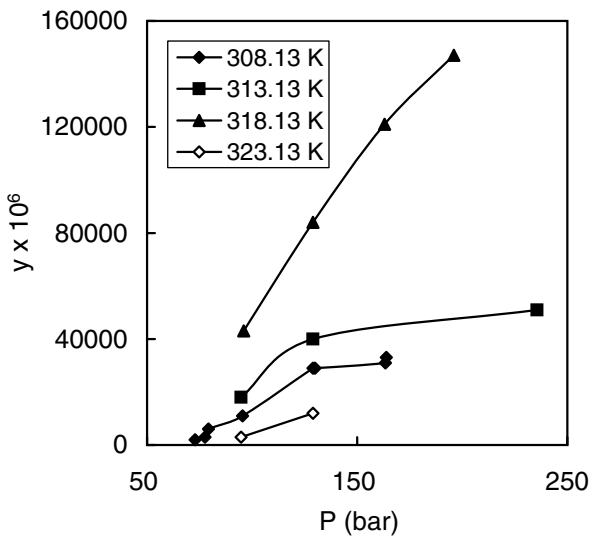


323.15	64.0	220
	72.7	470
	83.2	770
	92.6	1350
	95.8	1820
	97.5	2290
	101.5	3960
	103.2	5010
	105.4	7490
	106.9	9110
328.15	65.2	230
	75.6	490
	92.2	1130
	95.1	1380
	103.3	2270
	107.4	3780
	109.8	5100
	113.6	7440
	115.6	9130

Synonym: 5-Methyl-2-(1-methylethyl)cyclohexanol
Source: Sovova, H.; Jez, J. *J. Chem. Eng. Data* (1994), 39(4), 840-841.

Menthol ($C_{10}H_{20}O$; MW=156.27) **[M-9]**

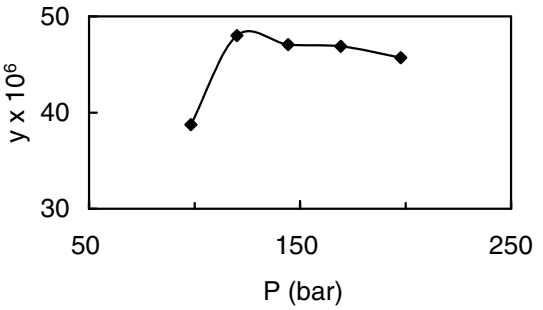
T (K)	P (bar)	y x 10^6
308.13	72.9	2000
	77.6	3000
	79.2	6000
	95.4	11000
	128.9	29000
	129.9	29000
	163.5	31000
	163.9	33000
313.13	94.8	18000
	129.0	40000
	235.6	51000
318.13	96.0	43000
	129.0	84000
	163.0	121000
	196.0	147000
323.13	94.8	3000
	128.9	12000



Synonym: 5-Methyl-2-(1-methylethyl)cyclohexanol
Source: Thakur, R., Ph.D. Dissertation, Auburn University, Auburn, Alabama, 2006.

2-Mercaptopyrimidine ($C_4H_4N_2S$; MW=112.15) **[M-10]**

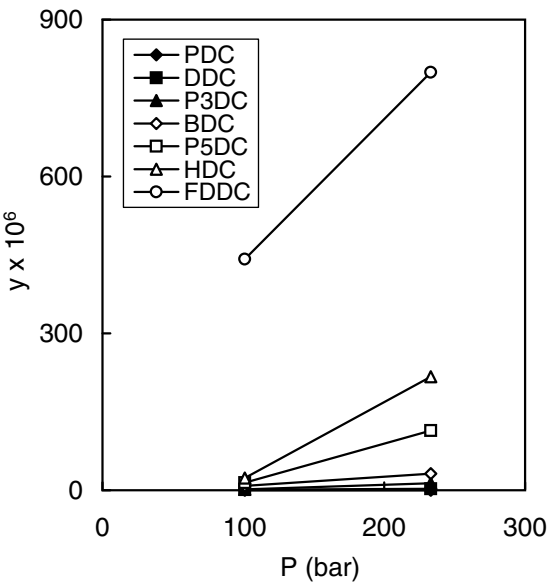
T (K)	P (bar)	y x 10^6
308.15	98.3	38.73
	120.0	48.01
	144.3	47.08
	169.3	46.87
	197.7	45.70



Synonyms: 2-Pyrimidinethione; Pyrimidine-2-thiol
Source: Nakatani, T.; Tohdo, T.; Ohgaki, K.; Katayama, T. *J. Chem. Eng. Data* (1991), 36(3), 314-316.

Mercury dithiocarbamate Complexes **[M-11]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
Mercury pyrrolidinedithiocarbamate (PDC)			
($C_{10}H_{16}HgN_2S_4$; FW=493.08)			
333.15	101	0.35	0.05
	233	3.40	0.19
Mercury bis(diethyldithiocarbamate) (DDC)			
($C_{10}H_{20}HgN_2S_4$; FW=497.11)			
333.15	101	6.8	1.00
	233	53.0	3.03
Mercury bis(dipropyldithiocarbamate) (P3DC)			
($C_{14}H_{28}HgN_2S_4$; FW=553.22)			
333.15	101	12	1.77
	233	230	13.10
Mercury bis(dibutyldithiocarbamate) (BDC)			
($C_{18}H_{36}HgN_2S_4$; FW=609.33)			
333.15	101	56	8.25
	233	560	32.00
Mercury bis(dipentyldithiocarbamate) (P5DC)			
($C_{22}H_{44}HgN_2S_4$; FW=665.43)			
333.15	101	100	14.70
	233	2000	114.00
Mercury bis(dihexyldithiocarbamate) (HDC)			
($C_{26}H_{52}HgN_2S_4$; FW=721.54)			
333.15	101	160	23.60
	233	3800	217.00
Mercury bis[bis(trifluoroethyl)dithiocarbamate] (FDDC)			
($C_{10}H_8F_{12}HgN_2S_4$; FW=713.00)			
333.15	101	3000	442.00
	233	14000	799.00



1: Calculated from M.
Source: Wai, C. M.; Wang, S.; Yu, J.-J. *Anal. Chem.* (1996), 68(19), 3516-3519.

Metal diethyldithiocarbamate Complexes **[M-12]**

Compounds	Formula	T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
Sodium bis(trifluoroethyl)dithiocarbamate	$C_5H_4F_6NNaS_2$	323.15	101.3	470.0	50.87
Sodium diethyldithiocarbamate	$C_5H_{10}NNaS_2$	323.15	101.3	150.0	16.24
Copper bis[bis(trifluoroethyl)dithiocarbamate]	$C_8H_{10}CuF_{12}N_2S_4$	323.15	101.3	910.0	98.48
Copper bis(diethyldithiocarbamate)	$C_{10}H_{20}CuN_2S_4$	323.15	101.3	1.1	0.12
Nickel bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}N_2NiS_4$	323.15	101.3	720.0	77.92
Nickel bis(diethyldithiocarbamate)	$C_{10}H_{20}N_2NiS_4$	323.15	101.3	0.9	0.09
Cobalt tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}CoF_{18}N_3S_6$	323.15	101.3	800.0	86.58
Cobalt tris(diethyldithiocarbamate)	$C_{15}H_{30}CoN_3S_6$	323.15	101.3	2.4	0.26
Bismuth tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}BiF_{18}N_3S_6$	323.15	101.3	0.1	0.01
			152.0	730.0	45.43
Bismuth tris(diethyldithiocarbamate)	$C_{15}H_{30}BiN_3S_6$	323.15	101.3	1.3	0.14
			152.0	9.0	0.56

1: Calculated from M.
Source: Laintz, K. E.; Wai, C. M.; Yonker, C. R.; Smith, R. D. *J. Supercrit. Fluids*(1991), 4(3), 194-198.

Metal β-diketone and Metal dithiocarbamate Complexes **[M-13]**

Compounds	Formula	T (K)	P (bar)	M x 10^4 (mol/L)	$y^{1)}$ x 10^6
Bismuth tris(diethyldithiocarbamate)	$C_{15}H_{30}BiN_3S_6$	333.15	101.3	0.09	1.330
Bismuth tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}F_{18}BiN_3S_6$	333.15	101.3	7.30	108
Cobalt tris(diethyldithiocarbamate)	$C_{15}H_{30}CoN_3S_6$	333.15	101.3	0.024	0.354
Cobalt tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}F_{18}CoN_3S_6$	333.15	101.3	8.0	118
Chromium tris(acetylacetonate)	$C_{15}H_{21}CrO_6$	333.15	202.7	20.0	121
			405.3	35.0	173
Chromium tris(hexafluoroacetylacetonate)	$C_{15}H_3CrF_{18}O_6$	333.15	202.7	>800	> 4840
			405.3	>820	> 4040
Copper bis(diethyldithiocarbamate)	$C_{10}H_{20}CoN_2S_4$	333.15	101.3	0.011	0.162
Copper bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}CoN_2S_4$	333.15	101.3	9.1	134
Copper bis(hexafluoroacetylacetonate)	$C_{10}H_2CoF_{12}O_4$	333.15	202.7	870	5260
			405.3	850	4190
Mercury bis(diethyldithiocarbamate)	$C_{10}H_{20}HgN_2S_4$	333.15	152.0	0.082	0.590
Mercury bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}HgN_2S_4$	333.15	152.0	50.0	53.1
Sodium diethyldithiocarbamate	$C_5H_{10}NNaS_2$	333.15	101.3	1.5	22.1
Sodium bis(trifluoroethyl)dithiocarbamate	$C_5H_4F_6NNaS_2$	333.15	101.3	4.7	69.4
Nickel bis(diethyldithiocarbamate)	$C_{10}H_{20}N_2NiS_4$	333.15	101.3	0.0085	0.125
Nickel bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}N_2NiS_4$	333.15	101.3	7.2	106
Nickel bis(hexafluoroacetylacetonate)	$C_{10}H_2F_{12}NiO_4$	333.15	202.7	80.0	484
			405.3	99.0	488

1: Calculated from M.
Source: Ashraf-Khorassani, M.; Combs, M. T.; Taylor, L. T. *Talanta*(1997), 44(5), 755-763.

Metal dithiocarbamate Complexes **[M-14]**

Name of Complexes (Formula)	FW	T (K)	P (bar)	M x 10^5 (mol/L)	$y^{1)}$ x 10^6
Rhodium tris(diethyldithiocarbamate) ($C_{15}H_{30}N_3RhS_6$)	547.69	353.15	300	4.61	2.71
Rhodium tris(diisopropyldithiocarbamate) ($C_{21}H_{42}N_3RhS_6$)	631.85	353.15	300	5.00	2.94
Rhodium tris(dibutyldithiocarbamate) ($C_{27}H_{54}N_3RhS_6$)	716.01	353.15	300	15.30	9.01
Rhodium tris(diisobutyldithiocarbamate) ($C_{27}H_{54}N_3RhS_6$)	716.01	353.15	300	201.00	118.30
Rhodium tris(dihexyldithiocarbamate) ($C_{39}H_{78}N_3RhS_6$)	884.33	353.15	300	88.70	52.20
Rhodium tris(dioctyldithiocarbamate) ($C_{51}H_{102}N_3RhS_6$)	1052.7	353.15	300	55.80	32.90
Palladium bis(diethyldithiocarbamate) ($C_{10}H_{20}N_2PdS_4$)	402.92	353.15	300	0.47	0.277
Palladium bis(diisopropyldithiocarbamate) ($C_{14}H_{28}N_2PdS_4$)	459.03	353.15	300	1.20	0.707
Palladium bis(dibutyldithiocarbamate) ($C_{18}H_{36}N_2PdS_4$)	515.14	353.15	300	15.00	8.830
Palladium bis(diisobutyldithiocarbamate) ($C_{18}H_{36}N_2PdS_4$)	515.14	353.15	300	41.00	24.100
Palladium bis(dipentyldithiocarbamate) ($C_{22}H_{44}N_2PdS_4$)	571.24	353.15	300	7.00	4.120
Palladium bis(dioctyldithiocarbamate) ($C_{34}H_{68}N_2PdS_4$)	739.57	353.15	300	1.60	0.942

1: Calculated from M.
Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: Supercritical Fluids as Solvents and Reaction Media, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340. (Numerical data obtained from the authors.)

Metal trifluoroethyldithiocarbamates **[M-15]**

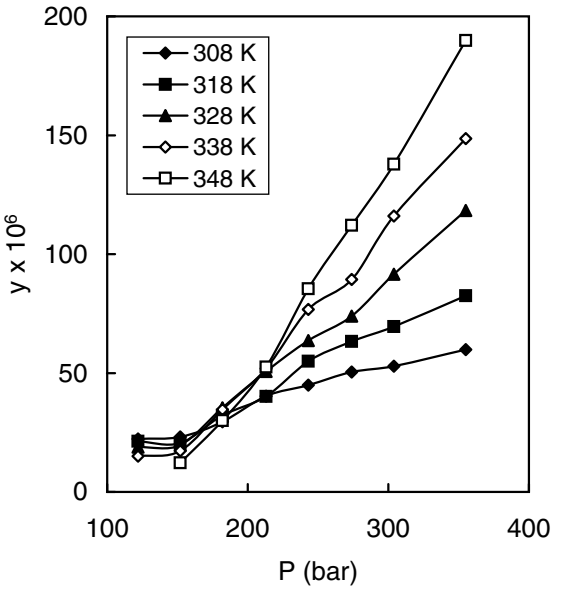
Compounds	Formula	T (K)	P (bar)	M x 10^4 (mol/L)	$y^{1)}$ x 10^6
Arsenic tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}AsF_{18}N_3S_6$	323.15	101.325	53.0	573
Mercury bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}HgN_2S_4$	323.15	101.325	4.2	45
Cobalt tris[bis(trifluoroethyl)dithiocarbamate]	$C_{15}H_{12}F_{18}CoN_3S_6$	323.15	101.325	8.0	87
Copper bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}CoN_2S_4$	323.15	101.325	8.2	89
Nickel bis[bis(trifluoroethyl)dithiocarbamate]	$C_{10}H_8F_{12}N_2NiS_4$	323.15	101.325	7.2	78

1: Calculated from M.
Source: Wai, C. M.; Brauer, R. D.; Liu, Y.; Lopez-Avila, V.; Beckert, W. F. *Proceedings of ACS Meeting* (1993), 33(1), 363-366.

Methimazole ($C_4H_6N_2S$; MW=114.17) **[M-16]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.04	22.3
	152	0.05	23.1
	182	0.06	29.5
	213	0.09	40.3
	243	0.10	44.9
	274	0.12	50.4
	304	0.13	52.9
	355	0.14	59.9

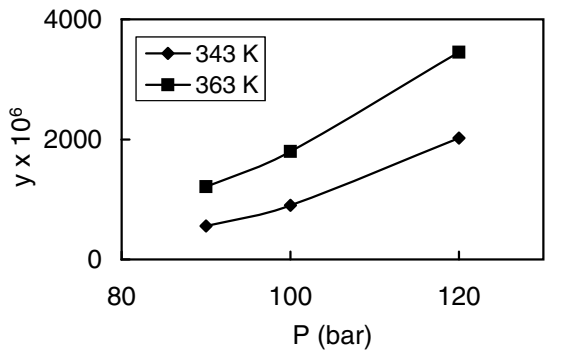
318	122	0.04	21.3
	152	0.04	20.6
	182	0.07	32.2
	213	0.09	40.2
	243	0.12	55.0
	274	0.14	63.3
	304	0.16	69.5
	355	0.20	82.5
328	122	0.02	18.9
	152	0.03	19.7
	182	0.07	35.4
	213	0.10	50.7
	243	0.13	63.7
	274	0.16	73.9
	304	0.20	91.6
	355	0.27	118.4
338	122	0.01	15.1
	152	0.03	17.3
	182	0.09	34.7
	213	0.10	51.9
	243	0.15	76.7
	274	0.18	89.3
	304	0.24	116.0
	355	0.33	148.6
348	152	0.02	12.2
	182	0.04	30.0
	213	0.09	52.5
	243	0.16	85.4
	274	0.22	112.1
	304	0.28	137.8
	355	0.40	189.9



Synonyms: 1-Methylimidazole-2-thiol; 1-Methyl-4-imidazoline-2-thione
Source: Asghari-Khiavi, M.; Yamini, Y. *J. Chem. Eng. Data* (2003), 48(1), 61-65.
(The same data were reported in: Yamini, Y.; Arab, J.; Asghari-Khiavi, M. *Pharm. Bio. Anal.* (2003), 32(1), 181-187).

3-Methoxybenzamide ($C_8H_9O_2N$; MW=151.16) **[M-17]**

T (K)	P (bar)	y x 10^6
343	90	560
	100	902
	120	2021
363	90	1210
	100	1800
	120	3450

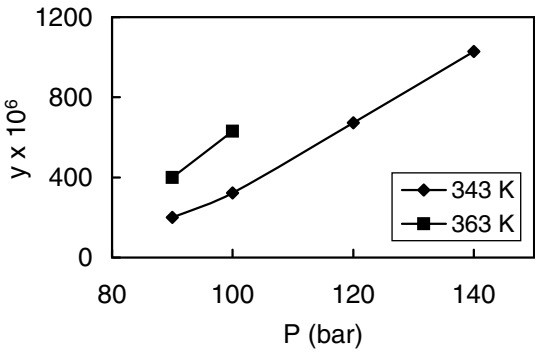


Synonym: *m*-Anisamide
Source: Bristow, S.; Shekunov, B. Y.; York, P. *Ind. Eng. Chem. Res.* (2001), 40(7), 1732-1739.

4-Methoxybenzamide ($C_8H_9O_2N$; MW=151.16) **[M-18]**

T (K)	P (bar)	y[1)] x 10^6
343	90	200
	100	323
	120	673
	140	1028
363	90	399
	100	630

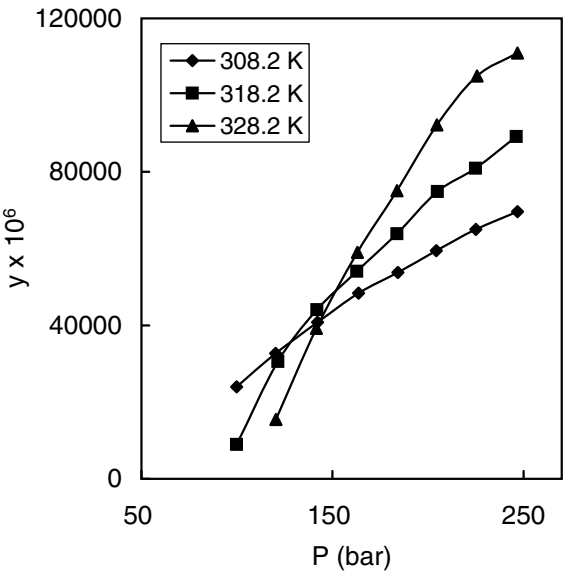
Synonym: *p* -Anisamide
Source: Bristow, S.; Shekunov, B. Y.; York, P. *Ind. Eng. Chem. Res.* (2001), 40(7), 1732-1739.



2-Methoxybenzoic acid ($C_8H_8O_3$; MW=152.15) **[M-19]**

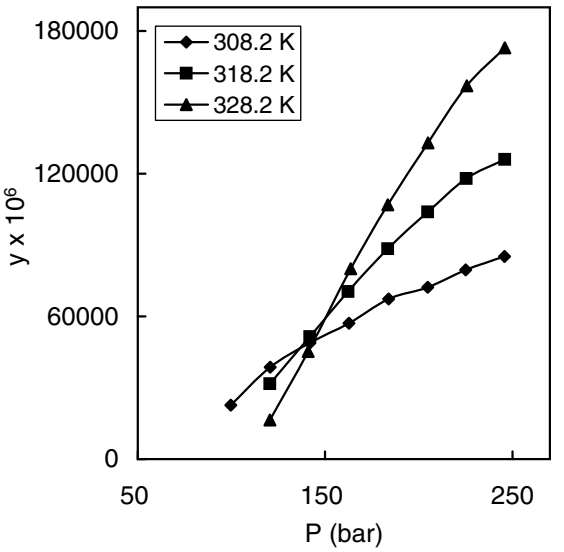
T (K)	P (bar)	y x 10^6
308.2	99.8	24000
	120.3	32700
	142.1	40800
	163.6	48400
	184.3	53800
	204.3	59500
	225.0	65000
	246.9	69600
318.2	99.8	8940
	121.5	30600
	141.9	44100
	162.8	54100
	183.7	63900
	205.0	74900
	224.9	80900
	246.3	89200
328.2	120.4	15500
	141.5	39200
	163.1	59000
	183.7	75100
	204.6	92200
	225.6	105000
	246.9	111000

Synonym: *o* -Anisic acid
Source: Chen, J. W.; Tsai, F. N. *Fluid Phase Equil.* (1995), 107(2), 189-200.



3-Methoxybenzoic acid ($C_8H_8O_3$; MW=152.15) **[M-20]**

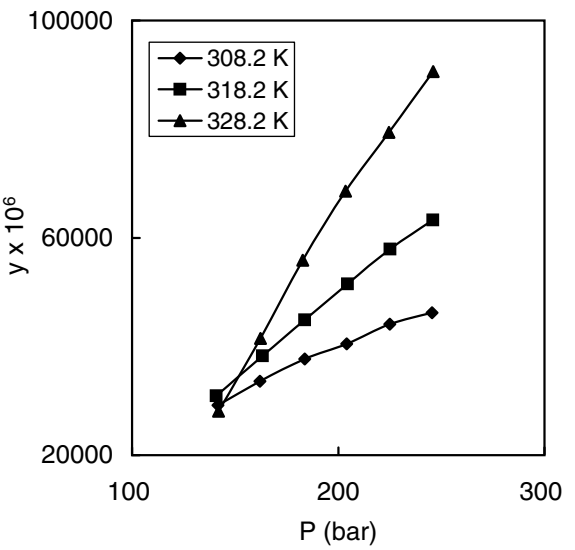
T (K)	P (bar)	y x 10^6
308.2	99.6	22700
	120.7	38700
	141.8	48800
	162.8	57100
	183.9	67300
	204.8	72200
	225.0	79600
	245.7	85200
318.2	120.5	31700
	141.9	51500
	162.3	70500
	183.5	88400
	204.8	104000
	225.4	118000
	245.9	126000
328.2	120.5	16500
	141.0	45300
	163.7	80000
	183.4	107000
	204.9	133000
	225.7	157000
	245.9	173000



Synonym: *m*-Anisic acid
Source: Chen, J. W.; Tsai, F. N. *Fluid Phase Equil.* (1995), 107(2), 189-200.

4-Methoxybenzoic acid ($C_8H_8O_3$; MW=152.15) **[M-21]**

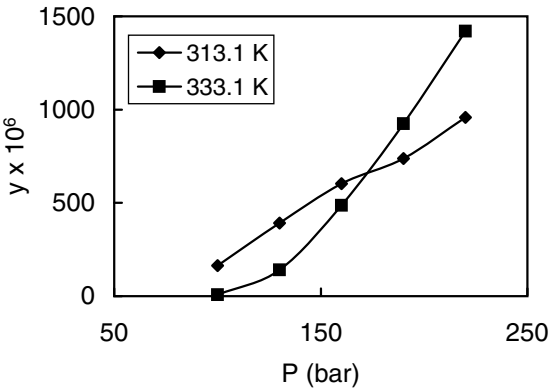
T (K)	P (bar)	y x 10^6
308.2	141.6	29200
	162.0	33600
	183.7	37700
	204.1	40500
	225.0	44100
	245.4	46200
318.2	140.8	30900
	163.3	38300
	183.7	44900
	204.5	51500
	225.1	57900
	245.9	63300
328.2	142.0	28100
	162.3	41500
	182.8	55900
	203.5	68600
	224.5	79400
	246.0	90600



Synonym: *p*-Anisic acid
Source: Chen, J. W.; Tsai, F. N. *Fluid Phase Equil.* (1995), 107(2), 189-200.

Methoxychlor ($C_{16}H_{15}Cl_3O_2$; MW=345.65) **[M-22]**

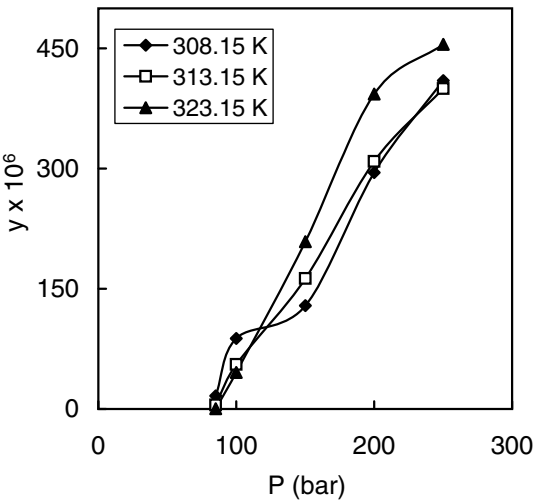
T (K)	P (bar)	y x 10^6
313.1	100	164
	130	392
	160	603
	190	737
	220	958
333.1	100	7
	130	141
	160	487
	190	925
	220	1420



Synonyms: DMDT; 1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane
Source: Macnaughton, S. J.; Kikic, I.; Rovedo, G.; Foster, N. R.; Alessi, P. *J. Chem. Eng. Data*(1995), 40(3), 593-597.

7-Methoxycoumarin ($C_{10}H_8O_3$; MW=176.17) **[M-23]**

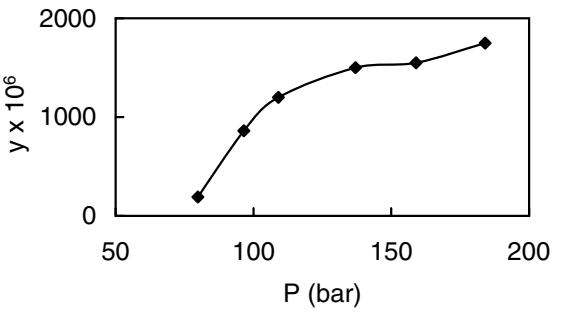
T (K)	P (bar)	y x 10^6
308.15	85	16.5
	100	88.0
	150	129.0
	200	295.0
	250	410.0
313.15	85	5.1
	100	55.7
	150	163.0
	200	309.0
	250	400.0
323.15	85	0.5
	100	45.7
	150	209.0
	200	393.0
	250	455.0



Synonyms: 7-Methoxy-2H-1-benzopyran-2-one; Methylumbelliferone
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

5-Methoxyindole (C_9H_9NO; MW=147.17) **[M-24]**

T (K)	P (bar)	y x 10^6
308.15	79.8	191
	96.5	861
	109.0	1200
	137.0	1500
	159.0	1550
	184.0	1750

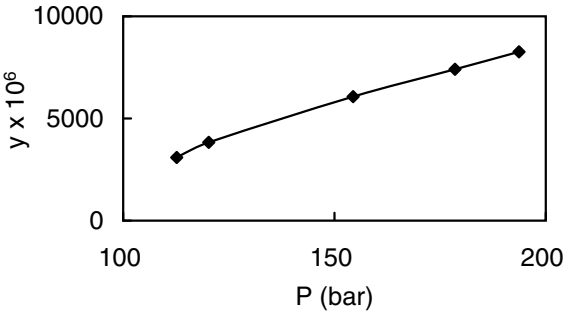


Synonym: 5-Methoxy-1*H*-indole
Source: Sako, S.; Shibata, K.; Ohgaki, K.; Katayama, T. *J. Supercrit. Fluids* (1989), 2(1), 3-8.

2-Methoxynapthalene ($C_{11}H_{10}O$; MW=158.20) **[M-25]**

T (K)	P[1)] (bar)	y[1)] x 10^6
308.15	113	3090
	120	3830
	154	6070
	178	7410
	194	8260

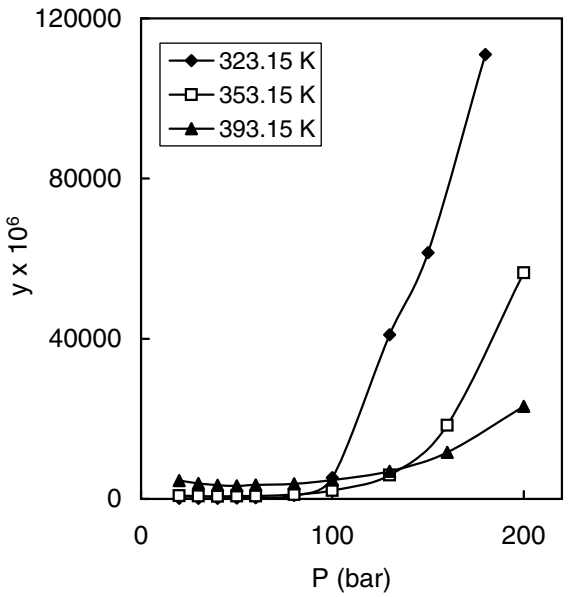
1: Obtained by digitizing the graph in the original article.



Synonym: Methyl-2-naphthyl ether
Source: Nakatani, T.; Ohgaki, K.; Katayama, T. *Ind. Eng. Chem. Res.* (1991), 30(6), 1362-1366.

2-Methoxyphenol ($C_7H_8O_2$; MW=124.14) **[M-26]**

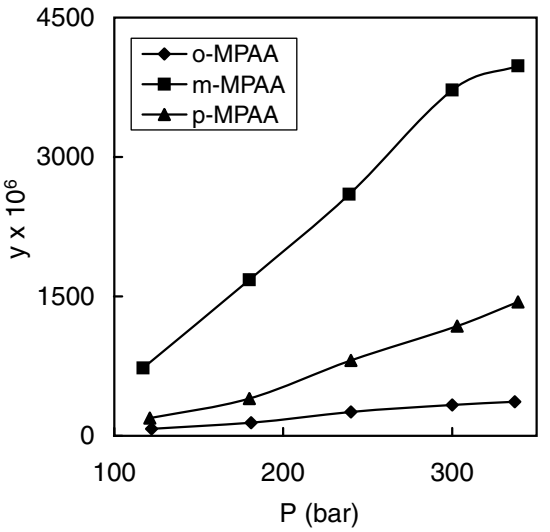
T (K)	P (bar)	y x 10^6
323.15	20	125
	30	115
	40	159
	50	205
	60	311
	80	838
	100	5330
	130	41000
	150	61500
	180	111000
353.15	20	799
	30	718
	40	676
	50	735
	60	762
	80	1120
	100	2090
	130	5950
	160	18400
	200	56500
393.15	20	4550
	30	3850
	40	3380
	50	3300
	60	3470
	80	3810
	100	4760
	130	6890
	160	11600
	200	23100



Synonym: 2-Hydroxyanisole
Source: Lee, M.-J.; Kou, C.-F.; Cheng, J.-W.; Lin, H.-M. *Fluid Phase Equil.* (1999), 162(1-2), 211-224.

_o_-, _m_- & _p_- Methoxyphenylacetic acid ($C_9H_{10}O_3$; MW=166.17) **[M-27]**

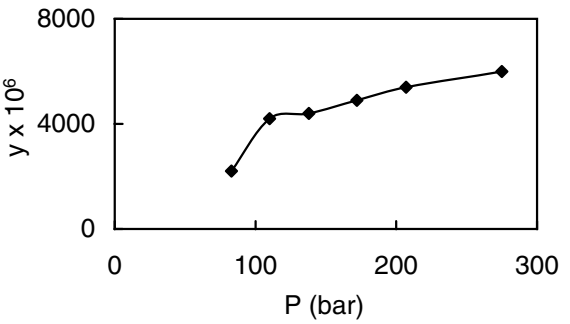
T (K)	P (bar)	y x 10^6
	o-MPAA[1)]	
308.2	122	76
	181	142
	240	258
	300	333
	337	367
	m-MPAA[1)]	
308.2	117	730
	180	1680
	239	2600
	300	3720
	339	3980
	p-MPAA[1)]	
308.2	121	190
	180	400
	240	810
	303	1180
	339	1440



1: MPAA = Methoxyphenylacetic acid.
Source: Lee, H. K.; Kim, C. H.; Kim, S.; Choi, C. S.
J. Chem. Eng. Data (1994), 39(1), 163-165.

5-Methoxy-1-tetralone ($C_{11}H_{12}O_2$; MW=176.21) **[M-28]**

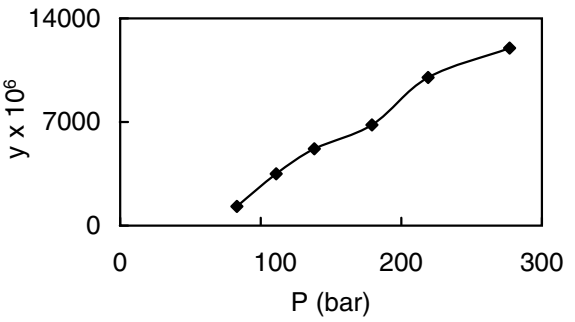
T (K)	P (bar)	y x 10^6
308	83.0	2200
	110.0	4200
	138.0	4400
	172.0	4900
	207.0	5400
	275.0	6000



Synonym: 3,4-Dihydro-5-methoxy-1(2*H*)-naphthalenone
Source: Chang, H.; Morrell, D. G.
J. Chem. Eng. Data (1985), 30(1), 74-78.

6-Methoxy-1-tetralone ($C_{11}H_{12}O_2$; MW=176.21) **[M-29]**

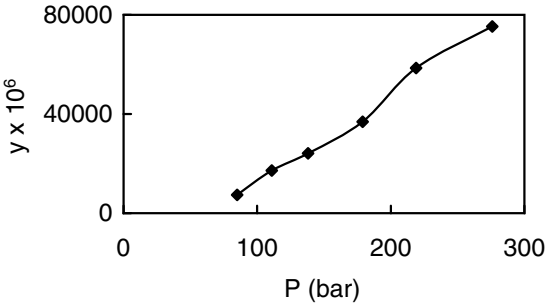
T (K)	P (bar)	y x 10^6
308	83.0	1300
	111.0	3500
	138.0	5200
	179.0	6800
	219.0	10000
	277.0	12000



Synonym: 3,4-Dihydro-6-methoxy-1(2*H*)-naphthalenone
Source: Chang, H.; Morrell, D. G.
J. Chem. Eng. Data (1985), 30(1), 74-78.

7-Methoxy-1-tetralone ($C_{11}H_{12}O_2$; MW=176.21) **[M-30]**

T (K)	P (bar)	y x 10^6
308	85.0	7400
	111.0	17200
	138.0	24100
	179.0	36900
	219.0	58500
	276.0	75300

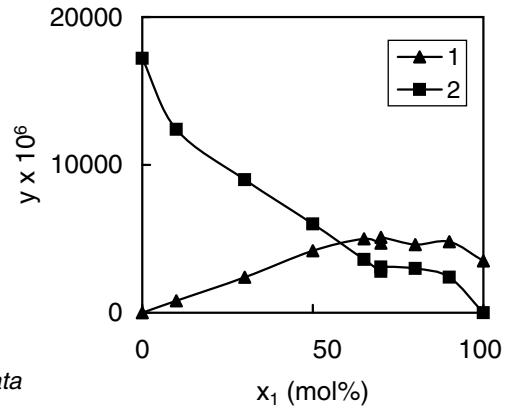


Synonym: 3,4-Dihydro-7-methoxy-1(2*H*)-naphthalenone

Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.

6-Methoxy-1-tetralone (1) + 7-Methoxy-1-tetralone (2) Mixture **[M-31]**

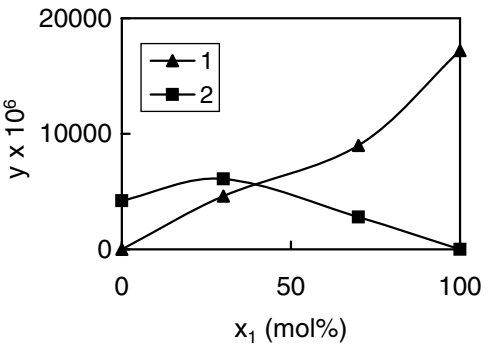
T (K)	P (bar)	x_1 (mol%)	y_1 x 10^6	y_2 x 10^6
308	110	0	0	17200
		10	800	12400
		30	2400	9000
		50	4200	6000
		65	5000	3600
		70	4700	2800
		70	5100	3100
		80	4600	3000
		90	4800	2400
		100	3500	0



Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.

7-Methoxy-1-tetralone (1) + 5-Methoxy-1-tetralone (2) Mixture **[M-32]**

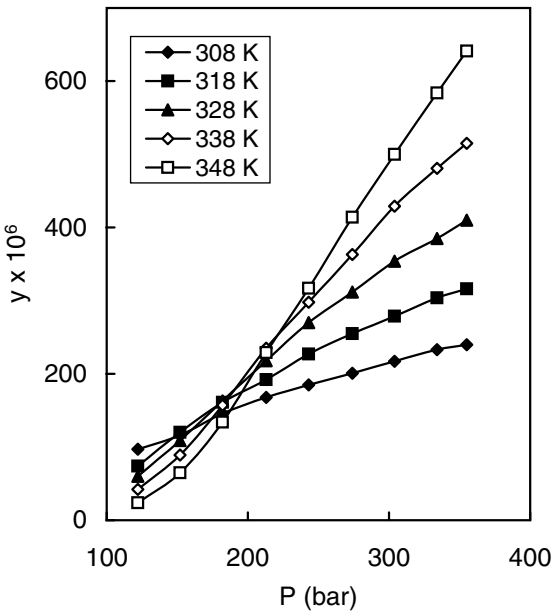
T(K)	P(bar)	x_1 (mol%)	y_1 x 10^6	y_2 x 10^6
308	110	0	0	4200
		30	4600	6100
		70	9000	2800
		100	17200	0



Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.

2-Methylanthracene ($C_{15}H_{12}$; MW=192.26) **[M-33]**

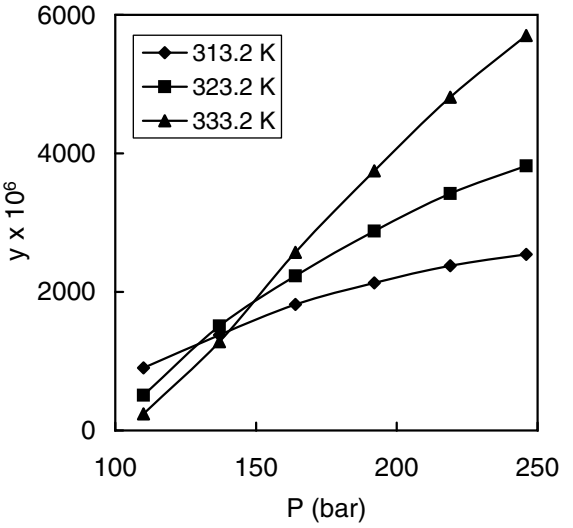
T (K)	P (bar)	y x 10^6
308	122	97
	152	116
	182	146
	213	168
	243	185
	274	201
	304	217
	334	233
	355	240
318	122	74
	152	120
	182	161
	213	192
	243	227
	274	255
	304	279
	334	304
	355	316
328	122	60
	152	109
	182	163
	213	218
	243	270
	274	312
	304	354
	334	385
	355	410
338	122	42
	152	89
	182	157
	213	235
	243	298
	274	363
	304	429
	334	481
	355	515
348	122	24
	152	65
	182	134
	213	229
	243	317
	274	414
	304	500
	334	584
	355	641



Source: Yamini, Y.; Bahramifar, N.; Hassan, J. *J. Chem. Eng. Data* (2002), 47(2), 329-332.

2-Methylbenzoic acid ($C_8H_8O_2$; MW=136.16) **[M-34]**

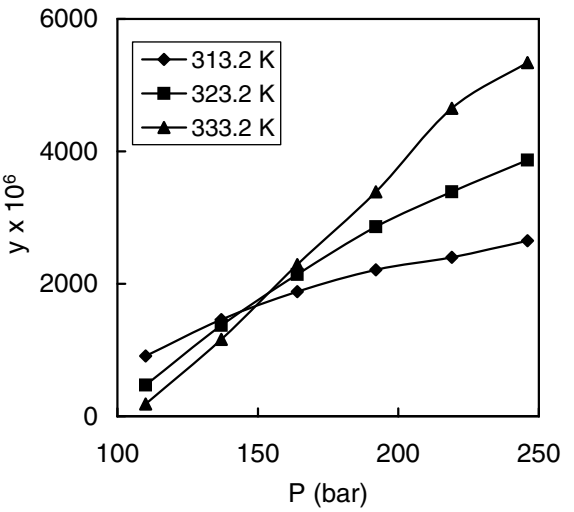
T (K)	P (bar)	y x 10^6
313.2	110	902
	137	1380
	164	1820
	192	2130
	219	2380
	246	2540
323.2	110	510
	137	1510
	164	2230
	192	2880
	219	3420
	246	3820
333.2	110	240
	137	1280
	164	2570
	192	3750
	219	4810
	246	5700



Source: Tsai, K.-L.; Tsai, F.-N. *J. Chem. Eng. Data* (1995), 40(1), 264-266.

3-Methylbenzoic acid ($C_8H_8O_2$; MW=136.16) **[M-35]**

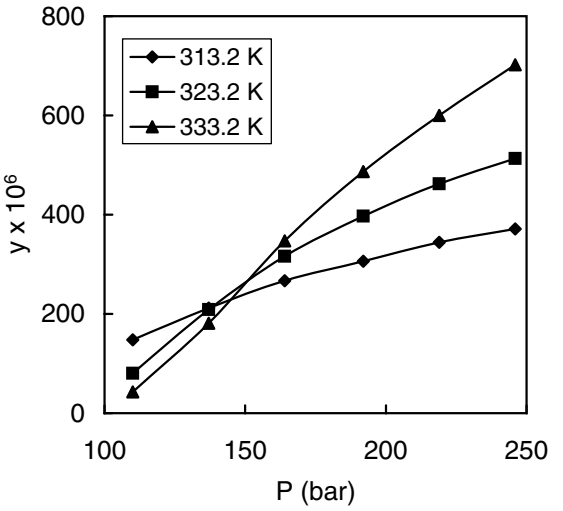
T (K)	P (bar)	y x 10^6
313.2	110	910
	137	1460
	164	1880
	192	2210
	219	2400
	246	2650
323.2	110	470
	137	1370
	164	2140
	192	2860
	219	3390
	246	3870
333.2	110	184
	137	1160
	164	2290
	192	3390
	219	4650
	246	5340



Source: Tsai, K.-L.; Tsai, F.-N. *J. Chem. Eng. Data* (1995), 40(1), 264-266.

4-Methylbenzoic acid ($C_8H_8O_2$; MW=136.16) **[M-36]**

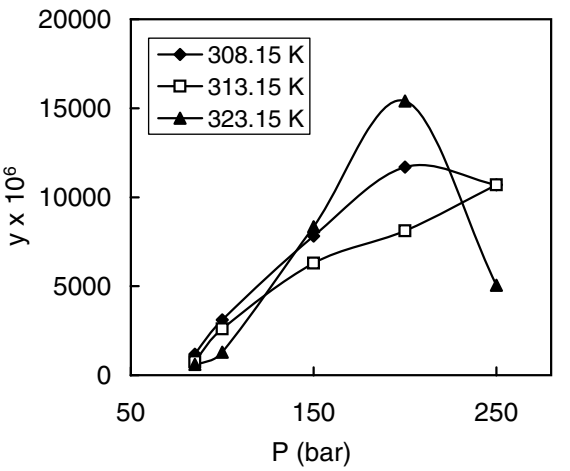
T (K)	P (bar)	y x 10^6
313.2	110	148
	137	212
	164	267
	192	306
	219	344
	246	371
323.2	110	80
	137	209
	164	316
	192	397
	219	462
	246	513
333.2	110	43
	137	181
	164	347
	192	487
	219	600
	246	702



Source: Tsai, K.-L.; Tsai, F.-N. *J. Chem. Eng. Data* (1995), 40(1), 264-266.

6-Methylcoumarin ($C_{10}H_8O_2$; MW=160.17) **[M-37]**

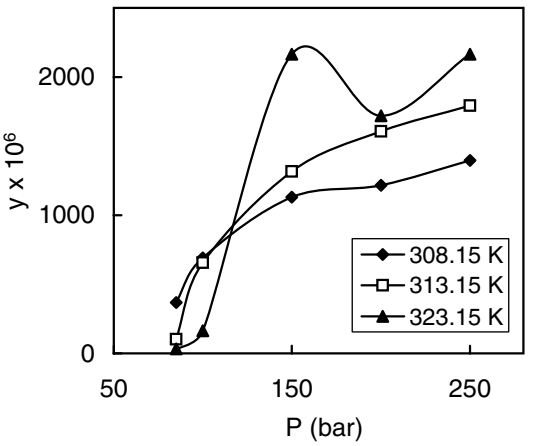
T (K)	P (bar)	y x 10^6
308.15	85	1170
	100	3100
	150	7810
	200	11700
	250	10700
313.15	85	745
	100	2600
	150	6300
	200	8110
	250	10700
323.15	85	600
	100	1290
	150	8340
	200	15400
	250	5060



1: Could not get the verification of the data from the authors.
Synonym: 6-Methyl-2*H*-1-benzopyran-2-one
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

7-Methylcoumarin ($C_{10}H_8O_2$; MW=160.17) **[M-38]**

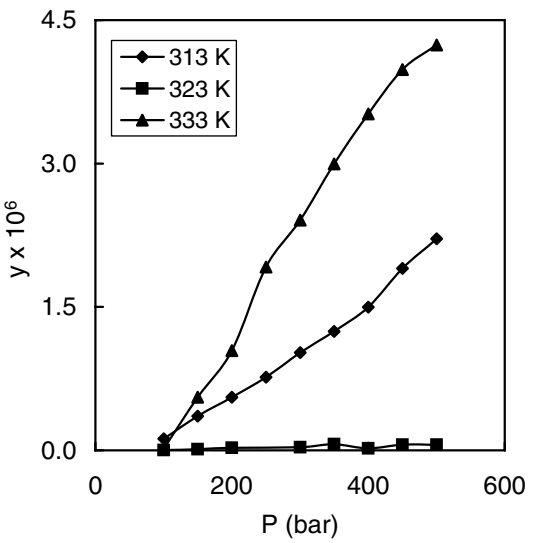
T (K)	P (bar)	y x 10^6
308.15	85	368
	100	691
	150	1131
	200	1217
	250	1396
313.15	85	103
	100	656
	150	1317
	200	1606
	250	1793
323.15	85	33
	100	163
	150	2165
	200	1719
	250	2165



Synonym: 7-Methyl-2*H*-1-benzopyran-2-one
Source: Yoo, K.-P.; Shin, H. Y.; Noh, M. J.; You, S. S. *Korean J. Chem. Eng.* (1997), 14(5), 341-346.

Methyl gallate ($C_8H_8O_5$; MW=184.15) **[M-39]**

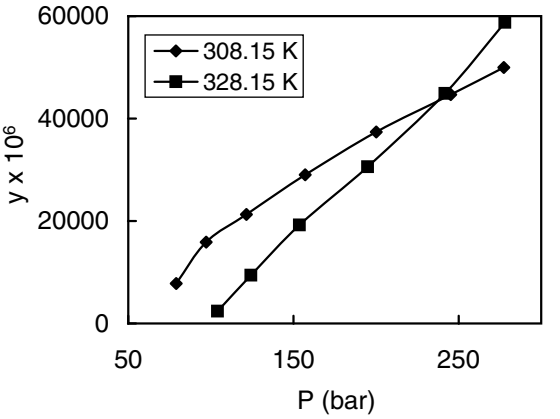
T (K)	P(bar)	y x 10^6
313	100	0.120
	150	0.356
	200	0.557
	250	0.765
	300	1.023
	350	1.243
	400	1.499
	450	1.902
	500	2.213
323	100	0.003
	150	0.012
	200	0.027
	300	0.034
	350	0.065
	400	0.022
	450	0.060
	500	0.060
333	100	0.019
	150	0.557
	200	1.044
	250	1.917
	300	2.409
	350	2.997
	400	3.520
	450	3.982
	500	4.240



Synonyms: 3,4,5-Trihydroxybenzoic acid methyl ester; Gallic acid methyl ester
Source: Murga, R.; Sanz, M. T.; Beltran, S.; Cabezas, J. L. *J. Supercrit. Fluids* (2002), 23(2), 113-121.

1-Methylnaphthalene ($C_{11}H_{10}$; MW=142.20) **[M-40]**

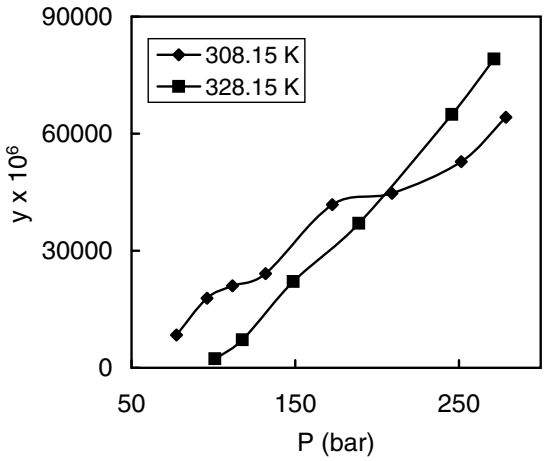
T (K)	P(bar)	y x 10^6
308.15	79.1	7800
	97.1	15900
	121.5	21300
	157.1	29000
	200.2	37400
	245.3	44700
	277.4	50000
328.15	104.0	2400
	124.3	9400
	153.7	19200
	195.0	30600
	241.7	44900
	278.1	58800



Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

2-Methylnaphthalene ($C_{11}H_{10}$; MW=142.20) **[M-41]**

T (K)	P(bar)	y x 10^6
308.15	77.5	8400
	96.1	17800
	111.7	21000
	131.9	24100
	172.7	41800
	209.2	44700
	251.5	52800
	278.8	64200
328.15	101.0	2300
	117.7	7200
	148.8	22100
	188.9	37000
	245.7	64900
	271.5	79100

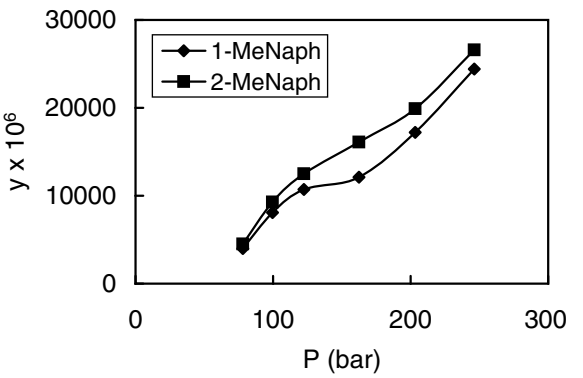


Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

1-Methylnaphthalene (1) & 2-Methylnaphthalene (2) Mixture **[M-42]**

T (K)	P (bar)	y_1 x 10^6	y_2x 10^6
		x_{ov}[1)]= 0.44	
308.15	78.0	4000	4500
	99.5	8100	9300
	122.4	10700	12500
	162.5	12100	16100
	203.3	17200	19900
	246.3	24400	26600

1: Initial (overall) composition of naphthalene in the mixture of solutes 1 and 2 (mole fraction).

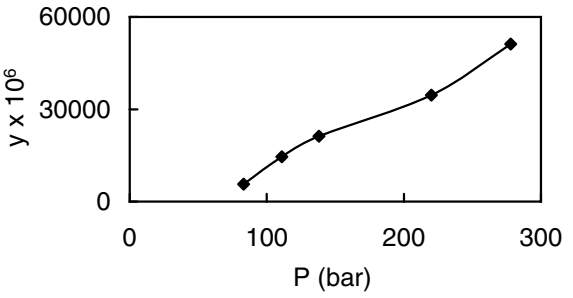


Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

Methyl *o*-nitrobenzoate ($C_8H_7NO_4$; MW=181.15) **[M-43]**

T (K)	P (bar)	y x 10^6
308	83.0	5700
	111.0	14600
	138.0	21200
	220.0	34600
	278.0	51200

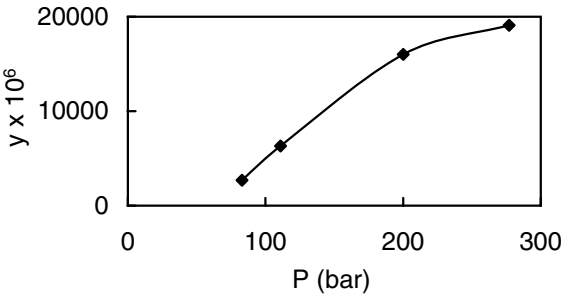
Synonyms: 2-Nitrobenzoic acid methyl ester; Methyl 2-nitrobenzoate
Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.



Methyl *m*-nitrobenzoate ($C_8H_7NO_4$; MW=181.15) **[M-44]**

T (K)	P (bar)	y x 10^6
308	83.0	2700
	111.0	6300
	200.0	16000
	277.0	19100

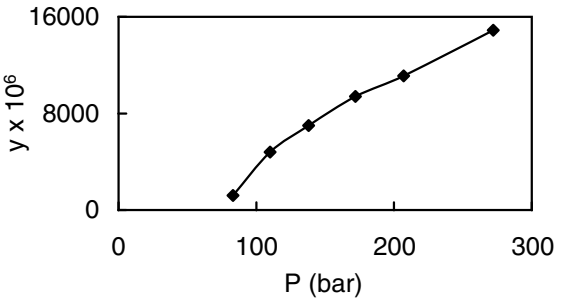
Synonyms: 3-Nitrobenzoic acid methyl ester; Methyl 3-nitrobenzoate
Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.



Methyl *p*-nitrobenzoate ($C_8H_7NO_4$; MW=181.15) **[M-45]**

T (K)	P (bar)	y x 10^6
308	83	1200
	110	4800
	138	7000
	172	9400
	207	11100
	272	14900

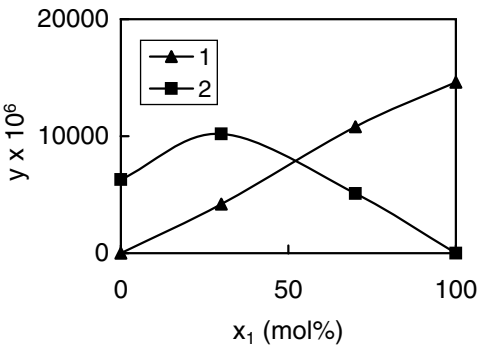
Synonyms: 4-Nitrobenzoic acid methyl ester; Methyl 4-nitrobenzoate
Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.



Methyl *o*-nitrobenzoate (1) + Methyl *m*-nitrobenzoate (2) Mixture **[M-46]**

T (K)	P (bar)	x_1[1)] (mol%)	y_1 x 10^6	y_2 x 10^6
308	110	0	0	6300
		30	4200	10200
		70	10800	5100
		100	14600	0

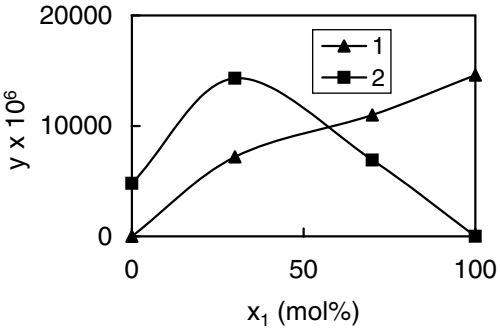
1: Initial composition of Methyl *o*-nitrobenzoate in the mixture of solutes 1 and 2 (CO_2-free).
Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.



Methyl *o*-nitrobenzoate (1) + Methyl *p*-nitrobenzoate (2) Mixture **[M-47]**

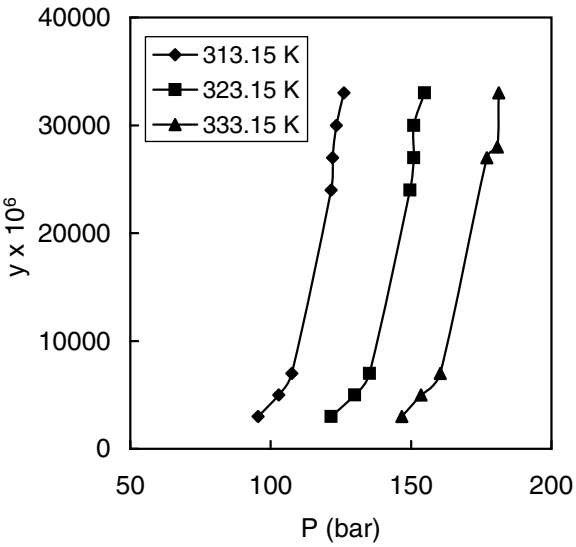
T (K)	P (bar)	x_1 [1)] (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	110	0	0	4800
		30	7200	14300
		70	11000	6900
		100	14600	0

1: Initial composition of Methyl *o*-nitrobenzoate in the mixture of solutes 1 and 2 (CO_2-free).
Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.



Methyl oleate ($C_{21}H_{36}O_2$; MW=296.49) **[M-48]**

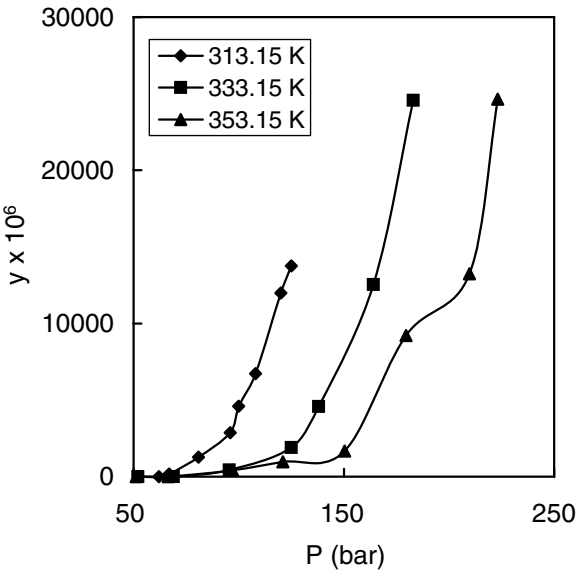
T (K)	P (bar)	y x 10^6
313.15	95.5	3000
	102.9	5000
	107.5	7000
	121.5	24000
	122.0	27000
	123.4	30000
	126.1	33000
323.15	121.5	3000
	129.9	5000
	135.2	7000
	149.6	24000
	151.0	27000
	151.0	30000
	154.8	33000
333.15	146.7	3000
	153.6	5000
	160.4	7000
	177.0	27000
	180.7	28000
	181.2	33000



Synonyms: (*Z*)-9-Octadecenoic acid methyl ester; Oleic acid methyl ester
Source: Crampon, C.; Charbit, G.; Neau, E. *J. Supercrit. Fluids* (1999), 16(1), 11-20.

Methyl oleate ($C_{19}H_{36}O_2$; MW=296.49) **[M-49]**

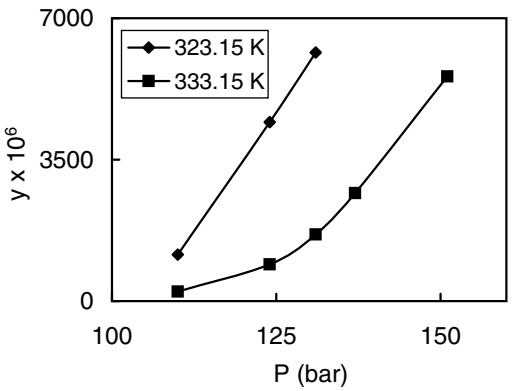
T (K)	P (bar)	y x 10^6
313.15	62.0	0
	66.9	170
	80.9	1270
	96.0	2860
	100.0	4590
	108.0	6730
	120.0	11980
	125.0	13750
333.15	52.1	0
	69.0	0
	95.5	430
	125.0	1900
	138.0	4570
	164.0	12540
	183.0	24570
353.15	51.2	0
	66.5	0
	97.0	420
	121.0	970
	150.3	1680
	179.5	9210
	209.7	13240
	223.2	24640



Synonyms: (*Z*)-9-Octadecenoic acid methyl ester; Oleic acid methyl ester
Source: Fang, T.; Goto, M.; Yun, Z.; Ding, X.-l.; Hirose, T. *J. Supercrit. Fluids* (2004), 30(1), 1-16.

Methyl oleate ($C_{19}H_{36}O_2$; MW=296.49) **[M-50]**

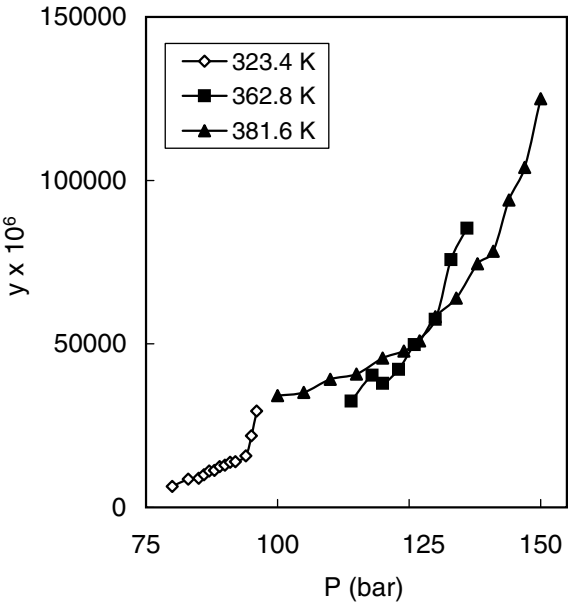
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
323.15	110	7700	1150
	124	29100	4430
	131	40000	6150
333.15	110	1600	238
	124	6100	910
	131	11000	1650
	137	17700	2670
	151	36300	5560



1: Calculated from w.
Synonyms: (*Z*)-9-Octadecenoic acid methyl ester; Oleic acid methyl ester
Source: Nilsson, W. B.; Gauglitz, E. J. Jr.; Hudson, J. K. *J. Am. Oil Chem. Soc.* (1991), 68(2), 87-91.

3-Methyl-3-pentanol ($C_6H_{14}O$; MW=102.17) **[M-51]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
323.4	80	3.3	6410
	83	4.8	8630
	85	5.2	8870
	86	6.0	9960
	87	6.9	11100
	88	7.2	11300
	89	8.2	12500
	90	8.7	12900
	91	9.6	13800
	92	10.0	14000
	94	12.0	15800
	95	17.2	21900
	96	24.1	29500
362.8	114	19.3	32500
	118	25.5	40400
	120	24.5	37900
	123	28.4	42200
	126	35.1	49800
	130	42.8	57500
	133	59.6	75800
	136	70.3	85400
381.6	100	14.8	34200
	105	16.2	35200
	110	19.3	39200
	115	21.3	40800
	120	25.4	45700
	124	27.8	47800
	127	30.7	50900
	130	36.6	58300
	134	42.1	64000
	138	51.6	74500
	141	56.0	78300
	144	70.4	94000
	147	81.4	104000
	150	102.2	125000

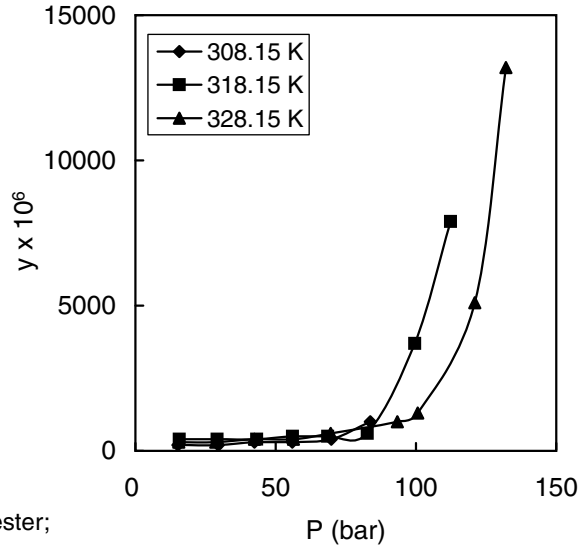


1: Calculated from S.
Synonym: Diethyl methyl carbinol
Source: Friedrich, J.; Schneider, G. M. *J. Chem. Thermodyn.* (1989), 21(3), 307-319.

Methyl salicylate ($C_8H_8O_3$; MW=152.15) **[M-52]**

T (K)	P (bar)	y x 10^6
308.15	15.2	200
	29.5	200
	42.4	300
	55.9	300
	69.8	400
	83.8	1000

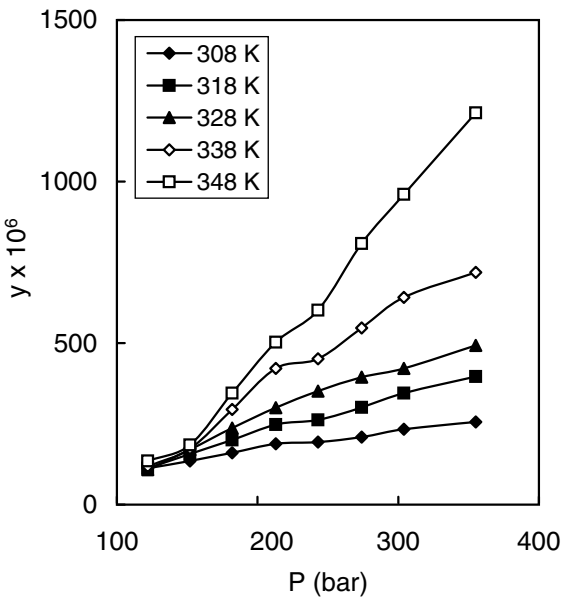
318.15	15.7	400
	29.1	400
	43.2	400
	56.0	500
	68.6	500
	82.7	600
	99.6	3700
	112.4	7900
328.15	15.5	300
	28.6	300
	42.4	400
	56.3	400
	69.6	600
	93.4	1000
	100.6	1300
	121.0	5100
	132.0	13200



Synonyms: 2-Hydroxybenzoic acid methyl ester; Methyl 2-hydroxybenzoate
Source: Cheng, K.-W.; Kuo, S.-J.; Tang, M.; Chen, Y.- P. *J. Supercrit. Fluids* (2000), 18(2), 87-99.

Methylparaben ($C_8H_8O_3$; MW=152.15) **[M-53]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.30	113
	152	0.38	135
	182	0.47	160
	213	0.57	188
	243	0.60	194
	274	0.66	209
	304	0.75	233
	355	0.84	256
318	122	0.26	113
	152	0.40	157
	182	0.55	200
	213	0.70	248
	243	0.77	262
	274	0.91	301
	304	1.07	345
	355	1.26	396
328	122	0.19	108
	152	0.39	170
	182	0.60	237
	213	0.80	300
	243	0.98	351
	274	1.13	395
	304	1.25	422
	355	1.51	493

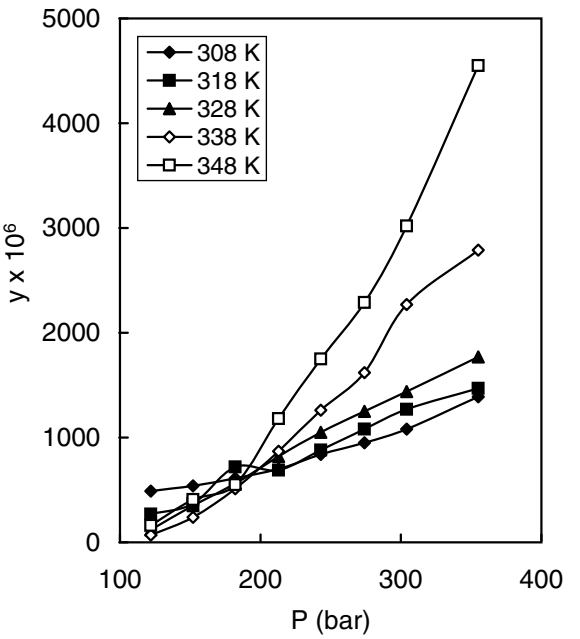


338	122	0.16	118
	152	0.34	173
	182	0.67	295
	213	1.04	422
	243	1.18	451
	274	1.48	547
	304	1.80	641
	355	2.11	719
348	122	0.15	135
	152	0.31	185
	182	0.70	345
	213	1.13	503
	243	1.51	602
	274	2.07	808
	304	2.56	960
	355	3.40	1213

Synonyms: 4-(Carbomethoxy)phenol; Methyl 4-hydroxybenzoate
Source: Asghari-Khiavi, M.; Yamini, Y. *J. Chem. Eng. Data* (2003), 48(1), 61-65.

Metronidazole benzoate ($C_{13}H_{13}N_3O_4$; MW=275.26) **[M-54]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	2.38	490
	152	2.76	540
	182	3.23	610
	213	3.86	700
	243	4.73	840
	274	5.44	950
	304	6.31	1080
	355	8.34	1390
318	122	1.11	270
	152	1.75	370
	182	2.57	720
	213	3.59	690
	243	4.70	880
	274	2.91	1080
	304	7.09	1270
	355	8.44	1470
328	122	0.48	120
	152	1.45	350
	182	2.53	560
	213	3.97	820
	243	5.28	1050
	274	6.49	1250
	304	7.68	1440
	355	9.80	1770
338	122	0.16	70
	152	0.83	240
	182	2.10	510

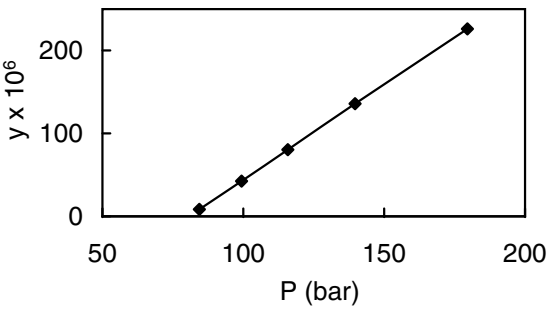


	213	3.86	870
	243	5.93	1260
	274	8.00	1620
	304	11.57	2270
	355	14.87	2790
348	122	0.32	160
	152	1.40	407
	182	2.03	550
	213	4.83	1180
	243	7.68	1750
	274	10.62	2290
	304	14.63	3020
	355	23.17	4550

Synonym: 2-Methyl-5-nitro-1*H*-imidazole-1-ethanol benzoate
Source: Garmroodi, A.; Hassan, J.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(3), 709-712.

Miconazole ($C_{18}H_{14}ClO_4N_2$; MW=416.12) **[M-55]**

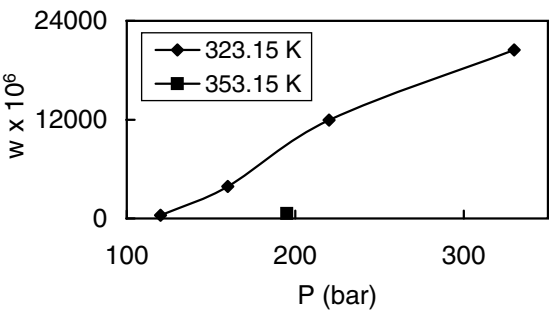
T (K)	P[1)] (bar)	w[1)] x 10^6	y[2)] x 10^6
313	84.4	80	8.5
	99.4	400	42.3
	115.8	760	80.4
	139.7	1280	136.0
	179.5	2130	226.0



1: Obtained by digitizing the graph in the original article.
2: Calculated from w.
Synonym: 1-[2-(2,4-Dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-1*H*-imidazole
Source: Smirnova, I.; Mamic, J.; Arlt, W. *Langmuir* (2003), 19(20), 8521-8525.

Milk fat triglyceride[1)] **[M-56]**

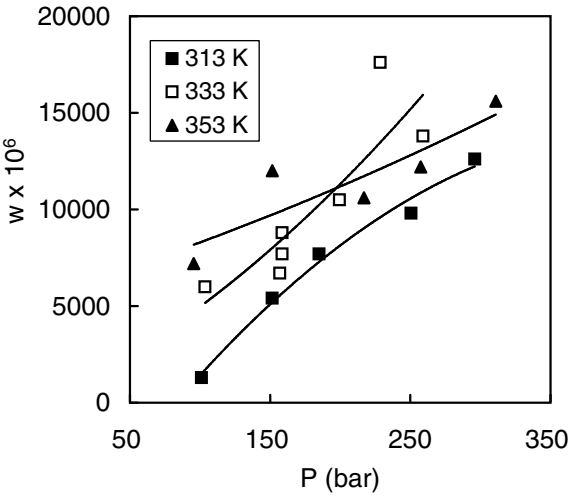
T (K)	P (bar)	w[2)]x 10^6
323.15	120	400
	160	3890
	220	11960
	330	20470
353.15	195	600



1: Commercial butter oil after removal of protein residues.
2: Weight fraction solubility on a solute-free basis.
Source: Arul, J.; Tardif, R.; Boudreau, A.; McGinnis, D. S.; Lencki, R. W. *Food Res. Internat.* (1994), 27(5), 459-467.

Milk thistle seed oil[1)] **[M-57]**

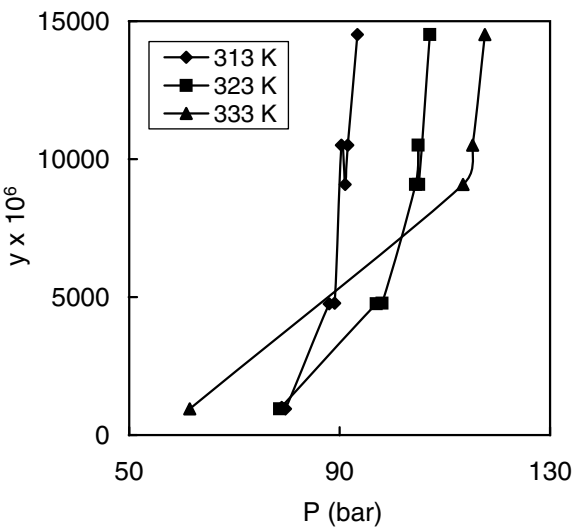
T (K)	P (bar)	w x 10^6
313	101.0	1300
	151.5	5400
	185.0	7700
	250.5	9800
	296.0	12600
333	103.5	6000
	157.0	6700
	158.5	7700
	158.5	8800
	199.5	10500
	228.5	17600
	259.0	13800
353	95.5	7200
	151.5	12000
	217.0	10600
	257.5	12200
	311.0	15600



1: Oil extracted from Milk Thistle (*Silybum marianum*) seeds obtained from Sentjernej, Slovenia.
Source: Skerget, M.; Kotnik, P.; Knez, Z. *J. Supercrit. Fluids* (2003), 26(3), 181-191.

Molybdenumhexacarbonyl (C_6MoO_6; MW=264.00) **[M-58]**

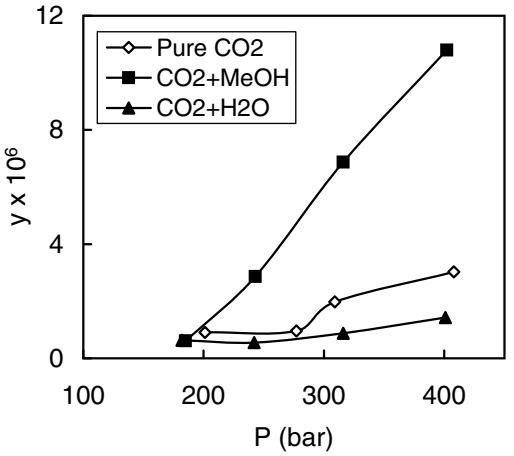
T (K)	P (bar)	y_1 x 10^6
313.45	79	1000
313.55	80	950
313.85	88	4760
313.85	89	4780
313.15	90	10510
314.05	91	9080
313.55	92	10510
313.45	93	14510
323.05	79	950
323.05	97	4760
323.85	98	4780
323.85	104	9080
323.85	105	10510
324.05	105	9080
322.85	107	14510
333.05	61	950
333.55	113	9080
333.25	115	10510
333.35	118	14510



Synonym: Hexacarbonylmolybdenum
Source: Warzinski, R.; Lee, C.; Holder, G. *J. Supercrit. Fluids* (1992), 5(1), 60-71.

Monensin sodium salt ($C_{36}H_{61}NaO_{11}$; FW=692.86) **[M-59]**

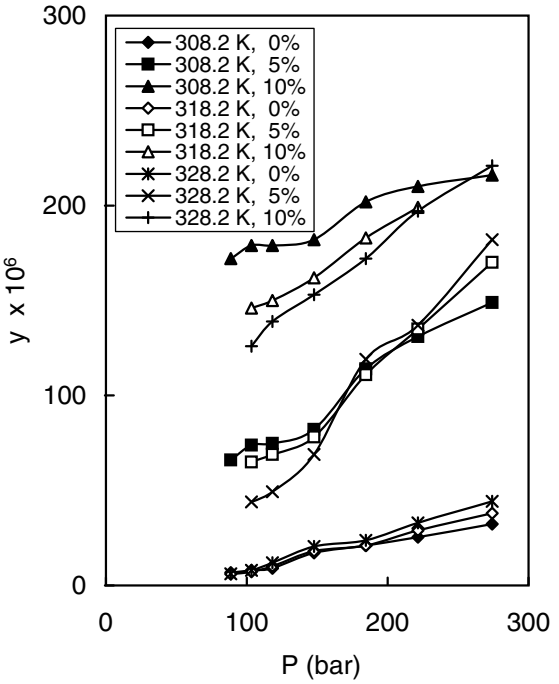
T (K)	P (bar)	Cosolvent[1)] (wt%)	y x 10^6
353.15	201	0	0.904
	277	0	0.957
	309	0	1.977
	408	0	3.029
		Methanol	
	185	1	0.614
	243	1	2.860
	316	1	6.870
	402	1	10.800
		Water	
	182	Saturated	0.635
	242	Saturated	0.555
	316	Saturated	0.877
	401	Saturated	1.430



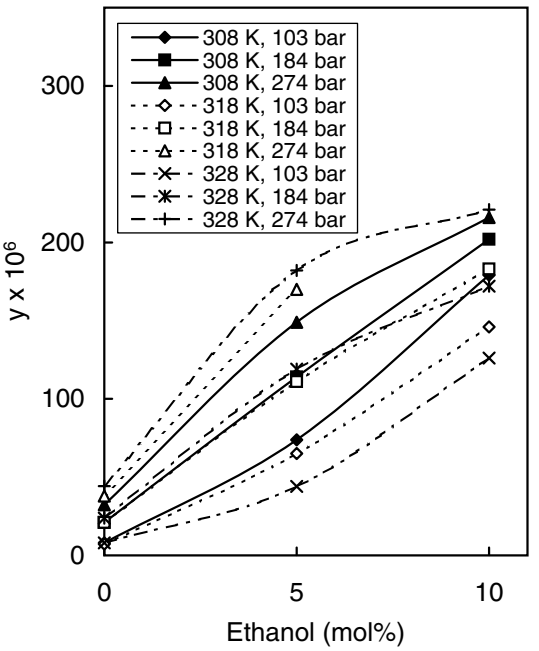
1: Cosolvent in CO_2.
Source: Maxwell, R.; Hampson, J.; Cygnarowicz-Provost, M. *J. Supercrit. Fluids* (1992), 5(1), 31-37.

Monocrotaline[1)] ($C_{16}H_{23}NO_6$; MW=325.36) **[M-60]**

T (K)	P (bar)	Ethanol[2)] (mol%)	y x 10^6
308.15	88.6	0	6.7
	103.4	0	8.0
	118.1	0	9.0
	147.7	0	17.1
	184.6	0	21.0
	221.5	0	25.4
	274.1	0	32.3
	88.6	5	66.0
	103.4	5	73.8
	118.1	5	74.8
	147.7	5	82.1
	184.6	5	114.0
	221.5	5	131.0
	274.1	5	149.0
	88.6	10	172.0
	103.4	10	179.0
	118.1	10	179.0
	147.7	10	182.0
	184.6	10	202.0
	221.5	10	210.0
	274.1	10	216.0
318.15	88.6	0	6.0
	103.4	0	7.2
	118.1	0	10.1
	147.7	0	18.1



	184.6	0	21.0
	221.5	0	28.9
	274.1	0	38.0
	103.45	5	65.0
	118.15	5	69.0
	147.75	5	78.1
	184.65	5	111.0
	221.55	5	135.0
	274.15	5	170.0
	103.4	10	146.0
	118.1	10	150.0
	147.7	10	162.0
	184.6	10	183.0
	221.5	10	199.0
328.15	88.6	0	6.2
	103.4	0	8.0
	118.1	0	11.9
	147.7	0	20.5
	184.6	0	23.8
	221.5	0	33.0
	274.1	0	44.3
	103.4	5	44.0
	118.1	5	49.4
	147.7	5	68.9
	184.6	5	119.0
	221.5	5	137.0
	274.1	5	182.0
	103.4	10	126.0
	118.1	10	139.0
	147.7	10	153.0
	184.6	10	172.0
	221.5	10	197.0
	274.1	10	221.0

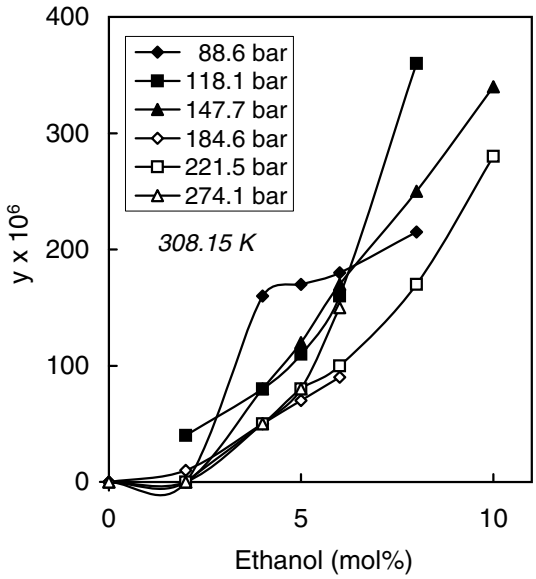


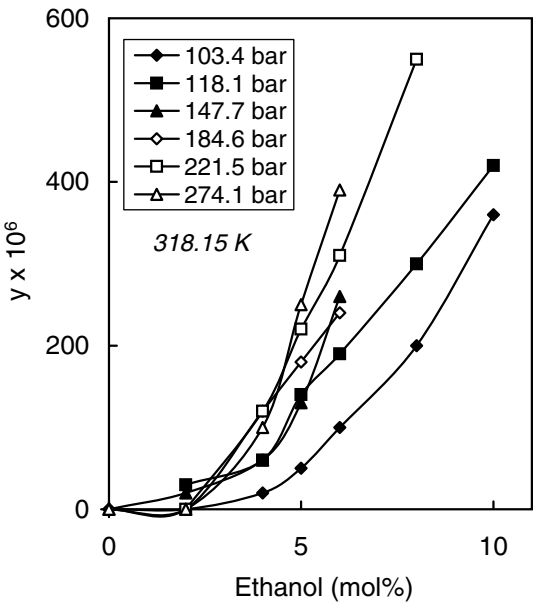
1: A lipid extracted from *Crotalario spectabilis* seeds.
2: Cosolvent in CO_2.
Source: Schaeffer, S. T.; Zalkow, L. H.; Teja, A. S. *Fluid Phase Equil.* (1988), 43(1), 45-56.

Monocrotaline[1)] ($C_{16}H_{23}NO_6$; MW=325.36) **[M-61]**

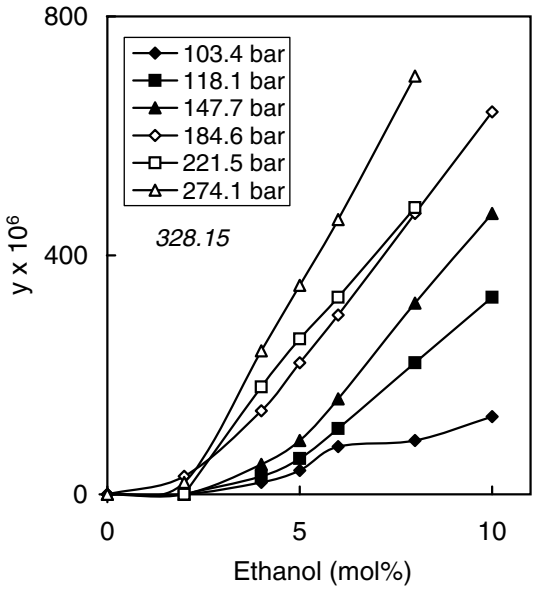
T (K)	P (bar)	Ethanol[2)] (mol%)	y x 10^6
308.15	88.6	0	0
		2	0
		4	160
		5	170
		6	180
		8	215
	118.1	2	40
		4	80
		5	110

		6	160
		8	360
	147.7	0	0
		2	0
		4	80
		5	120
		6	170
		8	250
		10	340
	184.6	0	0
		2	10
		4	50
		5	70
		6	90
	221.5	2	0
		4	50
		5	80
		6	100
		8	170
		10	280
	274.1	0	0
		2	0
		4	50
		5	80
		6	150
318.15	103.4	0	0
		2	0
		4	20
		5	50
		6	100
		8	200
		10	360
	118.1	2	30
		4	60
		5	140
		6	190
		8	300
		10	420
	147.7	0	0
		2	20
		4	60
		5	130
		6	260
	184.6	0	0
		2	0
		4	120
		5	180
		6	240
	221.5	2	0
		4	120
		5	220
		6	310
		8	550





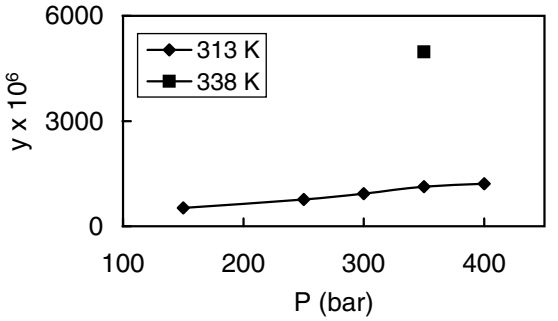
	274.1	0	0
		2	0
		4	100
		5	250
		6	390
328.15	103.4	0	0
		2	0
		4	20
		5	40
		6	80
		8	90
		10	130
	118.1	2	0
		4	30
		5	60
		6	110
		8	220
		10	330
	147.7	0	0
		2	0
		4	50
		5	90
		6	160
		8	320
		10	470
	184.6	0	0
		2	30
		4	140
		5	220
		6	300
		8	470
		10	640
	221.5	2	0
		4	180
		5	260
		6	330
		8	480
	274.1	0	0
		2	20
		4	240
		5	350
		6	460
		8	700



1: A lipid extracted from *Crotalario spectabilis* seeds.
2: Cosolvent in CO_2.
Source: Schaeffer, S. T.; Zalkow, L. H.; Teja, A. S. *Biotech. Bioeng.* (1989), 34(11), 1357-1365.

Monolaurin ($C_{15}H_{30}O_4$; MW=274.40) **[M-62]**

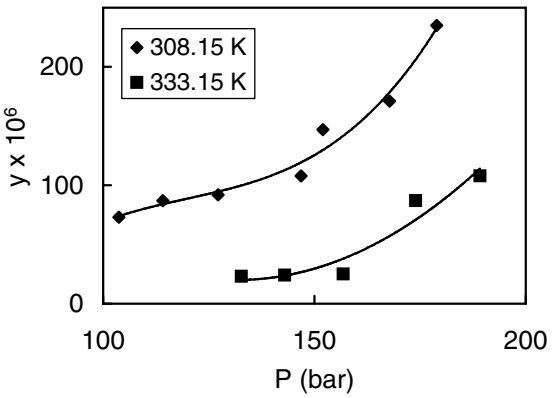
T (K)	P (bar)	y x 10^6
313	150	521
	250	763
	300	932
	350	1129
	400	1211
338	350	4974



Synonyms: Glycerin monolaurate; Glycerol monododecanoate
Source: Ashour, I.; Hammam, H. *J. Supercrit. Fluids* (1993), 6(1), 3-8. (See the graph in Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106).

Monoolein ($C_{21}H_{40}O_4$; MW=356.55) **[M-63]**

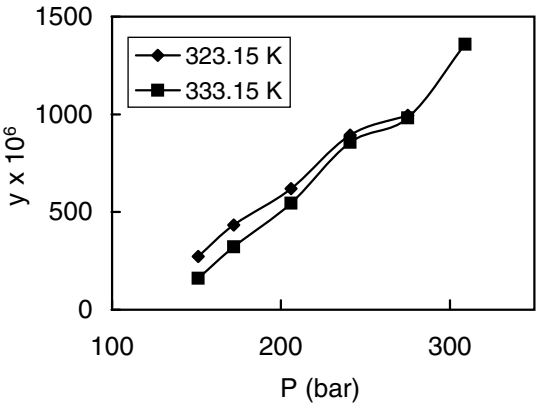
T (K)	P (bar)	y x 10^6
308.15	103.7	73
	114.1	87
	127.2	92
	146.8	108
	152.0	147
	167.8	171
	178.9	235
333.15	132.7	23
	143.0	24
	156.8	25
	174.0	87
	189.2	108



Synonyms: Glycerin monooleate; Glycerol monooleate
Source: King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in: Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp.31-80.

Monoolein ($C_{21}H_{40}O_4$; MW=356.55) **[M-64]**

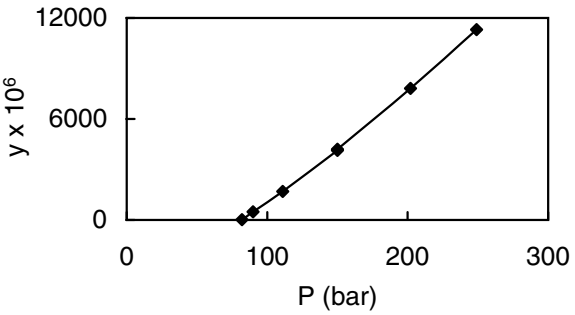
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
323.15	151	2200	272
	172	3500	433
	206	5000	620
	241	7200	894
	275	8000	994
333.15	151	1300	161
	172	2600	322
	206	4400	545
	241	6900	857
	275	7900	982
	309	10900	1358



1: Calculated from w.
Synonyms: Glycerin monooleate; Glycerol monooleate
Source: Nilsson, W. B.; Gauglitz, E. J. Jr.; Hudson, J. K. *J. Am. Oil Chem. Soc.*(1991), 68(2), 87-91.

Myristic acid ($C_{14}H_{28}O_2$; MW=228.37) **[M-65]**

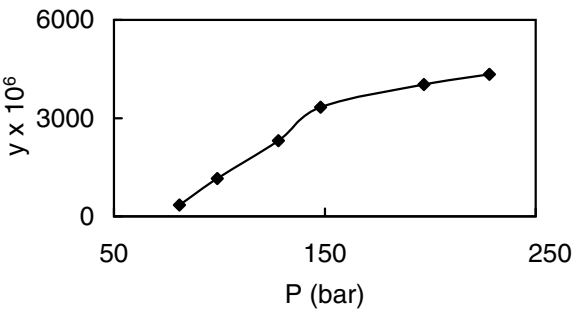
T (K)	P (bar)	y x 10^6
313	82	16
	90	481
	111	1700
	150	4140
	150	4210
	202	7810
	249	11300



Synonym: Tetradecanoic acid
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.

Myristic acid ($C_{14}H_{28}O_2$; MW=228.37) **[M-66]**

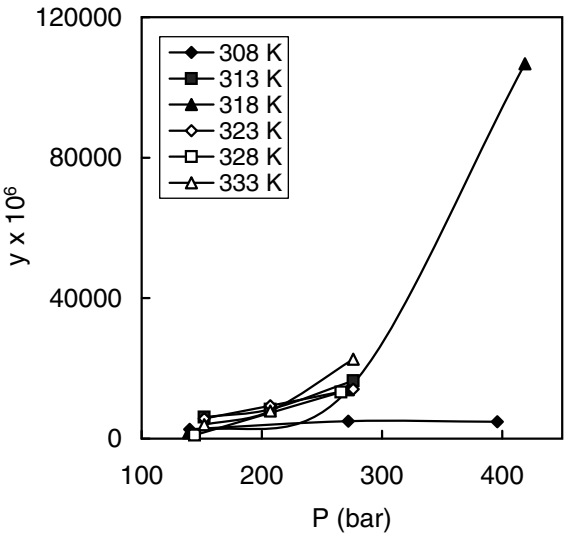
T (K)	P (bar)	y x 10^6
308.15	81	343
	99	1160
	128	2310
	148	3330
	197	4030
	228	4340



Synonym: Tetradecanoic acid
Source: Iwai, Y.; Fukuda, T.; Koga, Y.; Arai, Y. *J. Chem. Eng. Data*(1991), 36(4), 430-432.

Myristic acid ($C_{14}H_{28}O_2$; MW = 228.37) **[M-67]**

T (K)	P (bar)	W (g/kg CO_2)	$y^{1)} \times 10^6$
308	140	14	2690
	272	26	4990
	396	25	4800
313	152	32	6130
	207	44	8400
	276	87	16500
318	139	9	1670
	272	73	13900
	419	620	106700
323	152	30	5750
	207	49	9360
	276	74	14100
328	144	5	960
	266	70	13300
333	152	21	4000
	207	41	7840
	276	120	22600



1: Calculated from W.

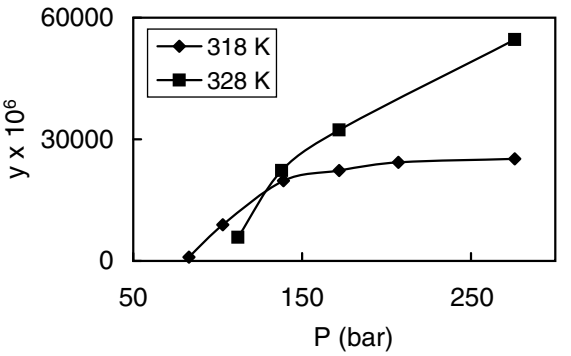
Synonym: Tetradecanoic acid

Source: Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-76. (See the graph in Nikolov, Z.; Maheshwari, P.; Hardwick, J.; Murphy, P.; Johnson, L. *Develop. Food Sci.* (1992), 29, 595-616.)

14 Solubility Data N

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-1]**

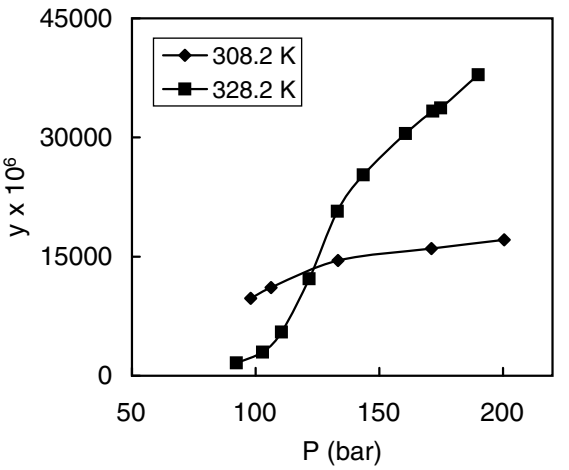
T (K)	P (bar)	y x 10^6
318	83.0	900
	103.0	8900
	139.0	19800
	172.0	22300
	207.0	24300
	276.0	25200
328	112.0	5800
	138.0	22300
	172.0	32300
	276.0	54600



Source: Chang, H.; Morrell, D. G. *J. Chem. Eng. Data* (1985), 30(1), 74-78.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-2]**

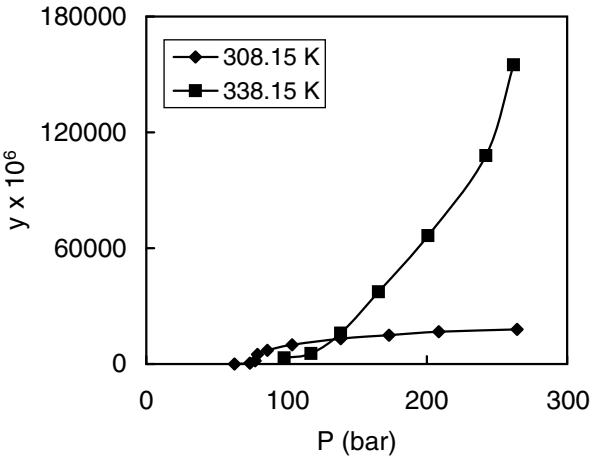
T (K)	P (bar)	y x 10^6
308.2	98.0	9730
	106.2	11100
	133.3	14500
	171.0	16000
	200.5	17100
328.2	92.2	1630
	102.8	2970
	110.5	5500
	121.7	12200
	133.1	20700
	143.5	25300
	160.6	30500
	171.6	33300
	174.8	33700
	190.0	37900



Source: Chen, J. W.; Tsai, F. N. *Fluid Phase Equil.* (1995), 107(2), 189-200.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-3]**

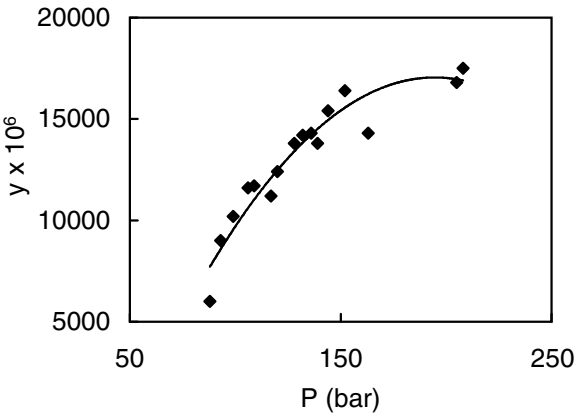
T (K)	P (bar)	y x 10^6
308.15	62.8	0
	73.9	400
	77.5	1600
	79.2	5000
	86.3	7100
	104.0	10000
	138.5	13100
	173.0	15000
	208.5	16700
	264.3	17900
338.15	98.4	3100
	117.4	5500
	138.5	16000
	165.5	37400
	200.9	66500
	242.1	108000
	261.9	155000



Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-4]**

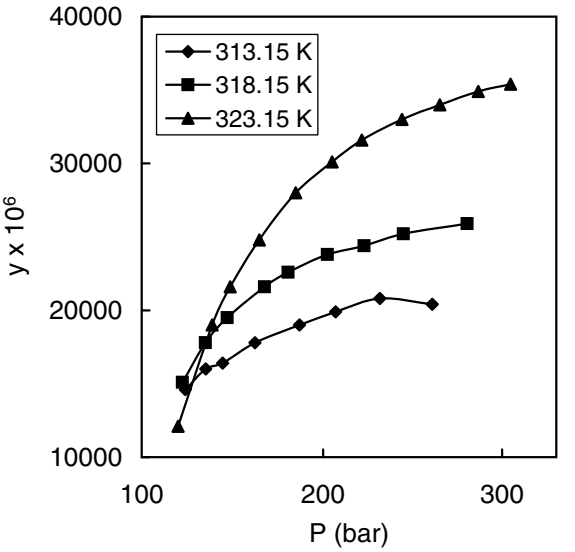
T (K)	P (bar)	y x 10^6
308	88	6000
	93	9000
	99	10200
	106	11600
	109	11700
	117	11200
	120	12400
	128	13800
	132	14200
	136	14300
	139	13800
	144	15400
	152	16400
	163	14300
	205	16800
	208	17500



Source: Diefenbacher, A.; Turk, M. *J. Supercrit. Fluids* (2002), 22(3), 175-184.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-5]**

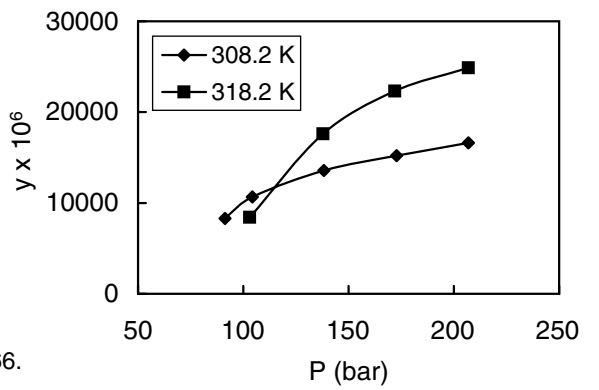
T (K)	P (bar)	M (mol/L)	y x 10^6
313.15	124.2	0.241	14600
	135.6	0.276	16000
	144.9	0.287	16400
	162.8	0.323	17800
	187.6	0.358	19000
	207.6	0.383	19900
	232.1	0.410	20800
	261.3	0.412	20400
318.15	122.5	0.230	15100
	135.3	0.286	17800
	147.5	0.327	19500
	168.2	0.380	21600
	181.3	0.408	22600
	203.0	0.442	23800
	223.4	0.465	24400
	245.1	0.488	25200
	280.6	0.516	25900
323.15	120.1	0.161	12100
	139.2	0.289	19000
	149.0	0.343	21600
	165.2	0.415	24800
	185.4	0.486	28000
	205.6	0.542	30100
	222.0	0.580	31600
	244.5	0.623	33000
	265.4	0.656	34000
	286.6	0.684	34900
	304.7	0.703	35400



Source: Hourri, A.; St-Arnaud, J. M.; Bose, T. K. *Rev. Sci. Instrum.* (1998), 69(7), 2732-2737.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-6]**

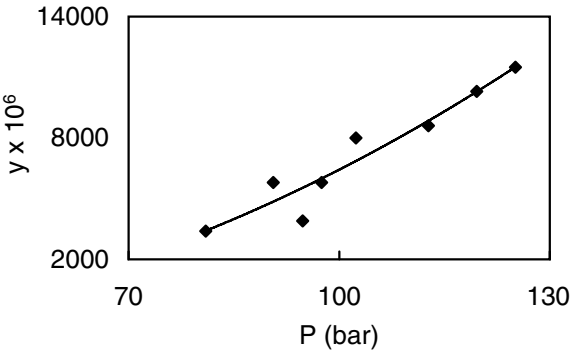
T (K)	P (bar)	y x 10^6
308.2	91.3	8300
	104.3	10660
	138.2	13590
	172.8	15210
	206.9	16610
318.2	103.1	8430
	137.9	17620
	172.0	22330
	206.9	24890



Source: Kaiaga, A.; Trebble, M. *J. Chem. Eng. Data* (1999), 44(5), 1063-1066.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-7]**

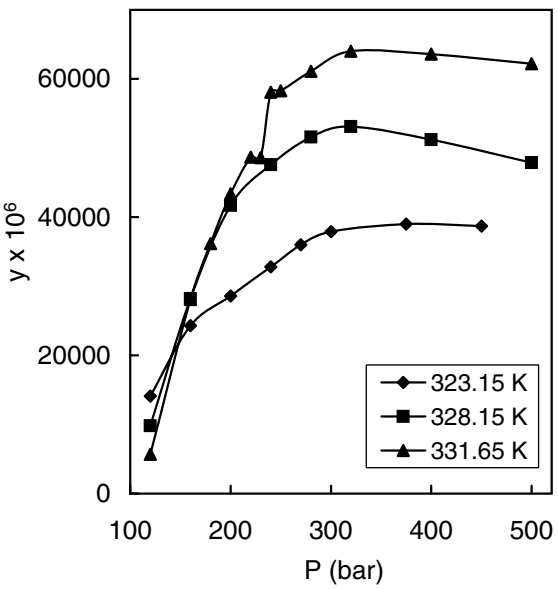
T (K)	P (bar)	y x 10^6
308.15	81.0	3400
	90.6	5800
	94.8	3900
	97.5	5800
	102.4	8000
	112.7	8600
	119.6	10300
	125.1	11500



Source: King, M. B.; Alderson,D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in: Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, R. D., Jr.; Davidson, P. (Eds.) Ann Arbor Science,1983, pp. 31-80.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-8]**

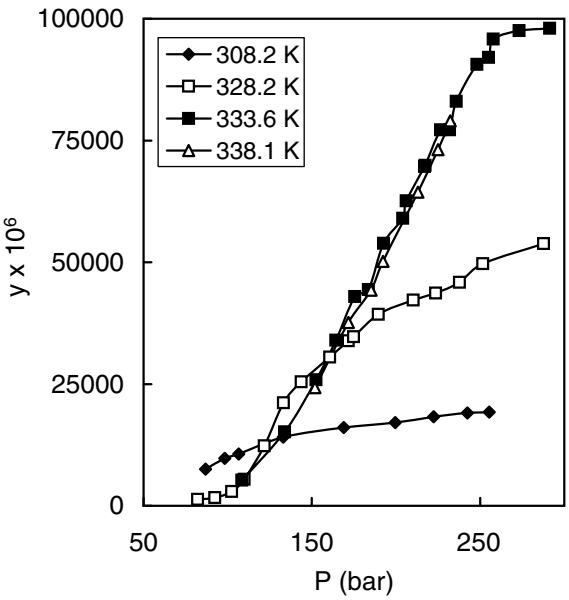
T (K)	P (bar)	y x 10^6
323.15	120	14100
	160	24300
	200	28600
	240	32800
	270	36000
	300	37900
	375	39000
	450	38700
328.15	120	9800
	160	28200
	200	41700
	240	47600
	280	51600
	320	53100
	400	51200
	500	47900
331.65	120	5670
	160	28100
	180	36200
	200	43400
	220	48700
	230	48600
	240	58100
	250	58300
	280	61100
	320	64000
	400	63600
	500	62200



Source: Lamb, D. M.; Barbara, T. M.; Jonas, J. *J. Phys. Chem.* (1986), 90(17), 4210-4215.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-9]**

T (K)	P (bar)	y x 10^6
308.15	86.8	7500
	98.2	9750
	106.5	10660
	133.0	14100
	169.0	16050
	199.5	17090
	222.4	18300
	242.5	19080
	255.3	19220
328.15	82.2	1313
	92.3	1672
	102.3	2920
	109.7	5464
	121.7	12290
	133.2	21140
	143.7	25440
	160.6	30530
	171.6	33870
	174.9	34730
	189.6	39280
	210.4	42240
	223.5	43660
	237.8	45860
	251.6	49690
	287.8	53820
333.55	108.4	5238
	133.9	15160
	152.5	25890
	164.2	34010
	175.6	42960
	183.7	44360
	192.6	53860
	204.0	59030
	206.1	62590
	217.0	69630
	217.4	69900
	226.6	77200
	231.9	77210
	235.9	83060
	248.1	90640
	255.0	92040
	257.8	95830
	273.3	97560
	291.4	98020
338.1	151.8	24270
	171.6	37650
	185.2	44280

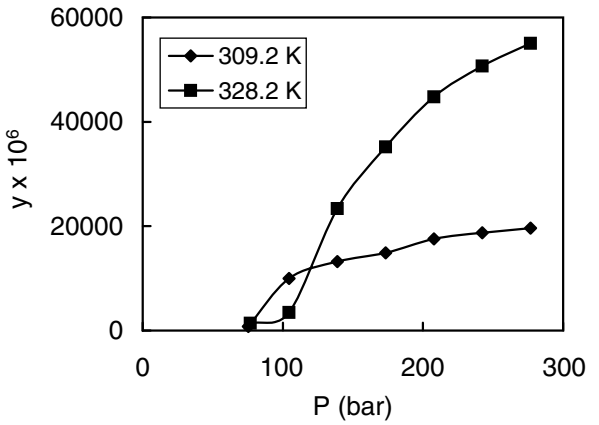


192.3	50150
213.0	64400
225.0	73090
232.2	79020

Source: McHugh, M.; Paulaitis, M. E.
J. Chem. Eng. Data (1980), 25(4), 326-329.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-10]**

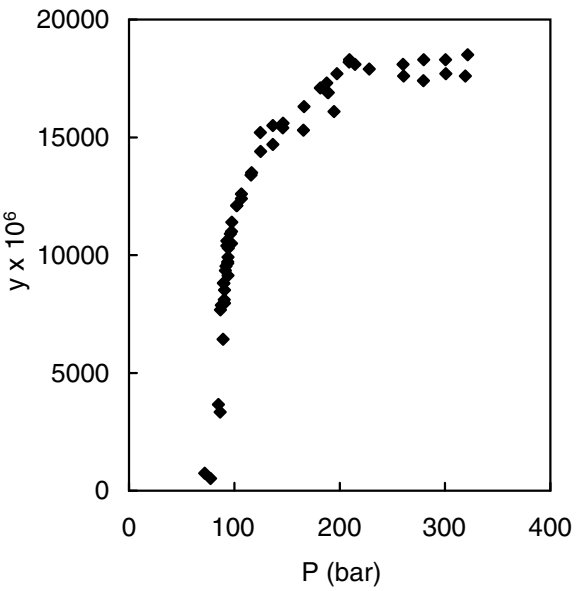
T (K)	P (bar)	y x 10^6
309.15	75.4	804
	104.4	10000
	138.9	13230
	173.4	14890
	207.9	17540
	242.3	18740
	276.8	19610
328.15	76.9	1389
	104.4	3470
	138.9	23340
	173.4	35160
	207.9	44770
	242.3	50670
	276.8	55040



Source: Mitra, S.; Chen, J. W.; Viswanath, D. S.
J. Chem. Eng. Data (1988), 33(1), 35-37.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-11]**

T (K)	P (bar)	y x 10^6
308.15	71.9	740
	77.5	520
	84.8	3660
	86.6	3340
	86.9	7670
	87.6	7870
	89.4	6430
	89.7	8810
	90.0	8800
	90.3	8110
	90.8	8520
	90.8	7960
	91.4	9340
	92.0	9530
	92.9	10400
	92.9	10600
	93.8	9710
	93.8	9660
	94.1	9140
	94.1	9910
	94.4	10300
	96.2	10500
	96.2	10900

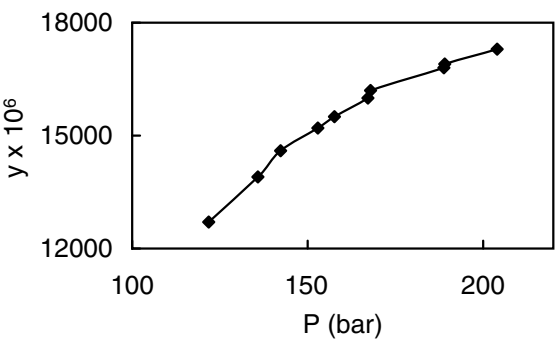


97.4	11000
97.4	10500
97.6	11400
102.3	12100
102.3	12100
106.6	12400
106.6	12600
115.9	13400
116.5	13500
124.8	15200
125.0	14400
136.6	15500
136.6	14700
146.0	15400
146.3	15600
165.6	15300
166.1	16300
181.5	17100
187.8	17300
188.8	16900
189.0	16900
194.6	16100
197.4	17700
209.0	18200
209.2	18300
214.4	18100
228.0	17900
260.1	18100
260.8	17600
279.5	17400
279.7	18300
300.5	18300
300.8	17700
319.3	17600
321.5	18500

Source: Pauchon, V.; Cisse, Z.; Chavret, M.; Jose, J.
J. Supercrit. Fluids (2004), 32(1-3), 115-121.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-12]**

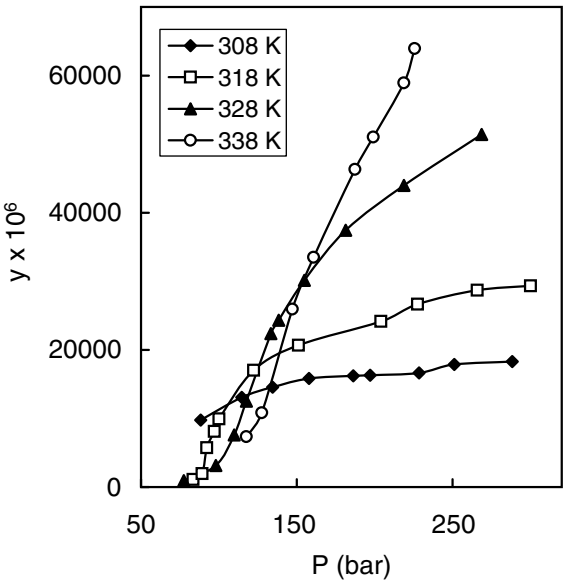
T (K)	P (bar)	y x 10^6
308.15	121.8	12700
	135.8	13900
	142.3	14600
	152.9	15200
	157.6	15500
	167.2	16000
	167.9	16200
	188.8	16800
	189.1	16900
	204.0	17300



Source: Sako, S.; Ogaki, K.; Katayama, T.
J. Supercrit. Fluids (1988), 1(1), 1-6.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-13]**

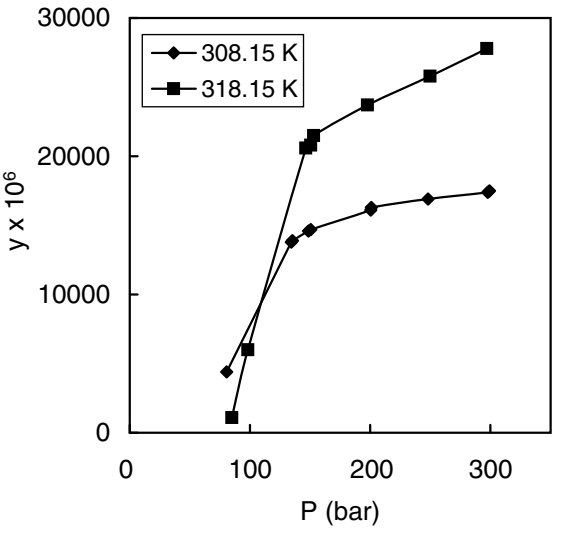
T (K)	P (bar)	y x 10^6
308	88.3	9750
	114.7	13080
	134.4	14570
	157.9	15850
	186.3	16230
	197.1	16320
	228.5	16620
	251.0	17890
	288.3	18290
318	83.4	1110
	89.2	1960
	92.2	5710
	97.1	8090
	100.0	9950
	122.3	17020
	151.0	20690
	204.0	24160
	227.5	26640
	265.8	28680
	300.1	29350
328	77.5	930
	98.1	3140
	109.8	7610
	117.7	12530
	133.4	22360
	138.3	24340
	154.9	30120
	181.4	37420
	218.7	43980
	268.7	51390
338	117.7	7340
	127.5	10820
	147.1	25950
	160.8	33500
	187.3	46310
	199.1	51040
	218.7	58940
	225.6	63940



Source: Sako, T.; Yamane, S.; Negishi, A.; Sato, M. *Sekiyu Gakkaishi* (1994), 37(3), 321-327.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-14]**

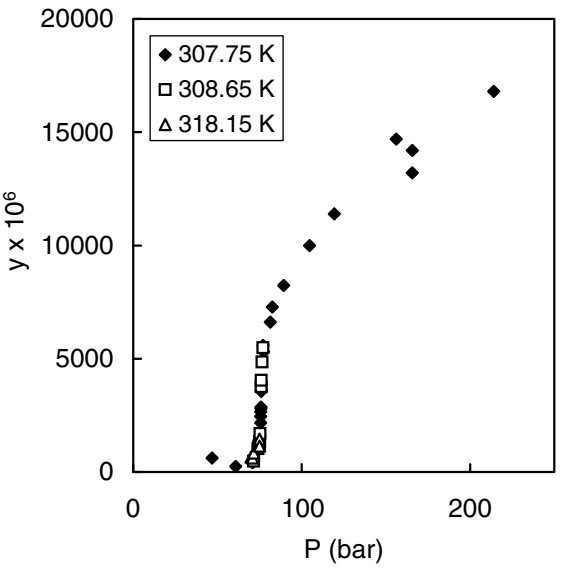
T (K)	P (bar)	y x 10^6
308.15	81	4400
	134	13800
	135	13900
	149	14600
	151	14700
	200	16100
	201	16300
	248	16900
	298	17400
	299	17500
318.15	85	1100
	98	6000
	147	20600
	151	20800
	153	21500
	198	23700
	250	25800
	297	27800



Source: Sauceau, M.; Fages, J.; Letoumeau, J. J.; Richon, D. *Ind. Eng. Chem. Res.* (2000), 39(12), 4609-4614.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-15]**

T (K)	P[1)] (bar)	w[2)] (wt%)	y[3)] x 10^6
307.75	46.8	0.18	620
	60.8	0.07	240
	70.8	0.12	410
	71.6	0.14	480
	74.9	0.30	1030
	75.6	0.63	2170
	75.7	0.71	2450
	75.7	0.77	2660
	75.8	0.83	2870
	75.8	0.81	2800
	76.0	1.03	3560
	76.0	1.05	3630
	76.0	1.05	3630
	77.1	1.61	5590
	77.4	1.53	5310
	81.4	1.90	6610
	82.5	2.09	7280
	89.3	2.36	8230
	104.7	2.86	10000
	119.3	3.24	11400
	156.1	4.16	14700
	165.7	3.74	13200
	165.7	4.03	14200
	214.0	4.72	16800

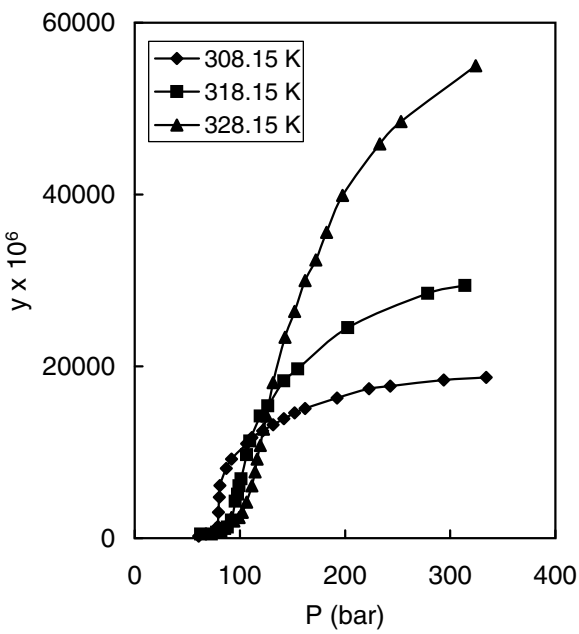


308.65	71.6	0.14	480
	74.1	0.30	1030
	74.6	0.33	1140
	74.9	0.34	1170
	75.2	0.39	1340
	75.4	0.49	1690
	76.0	1.09	3770
	76.1	1.17	4050
	76.5	1.40	4850
	77.1	1.58	5480
318.15	70.0	0.19	650
	70.9	0.18	620
	71.6	0.24	830
	74.9	0.42	1450
	75.0	0.33	1140

1: Calculated from temperature and density in the source table.
2: Measured in a glass vial with a volume of 1.5 cm^3.
The data in italics were measured in a small column
with a volume of 23.3 cm^3.
3: Calculated from w.
Source: Tsekhanskaya, Yu. V.; Iomtev, M. B.;
Mushkina, E. V. *Z. Fiz. Khim.* (1962), 36, 2187-2193.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-16]**

T (K)	P (bar)	y x 10^6
308.15	60.8	240
	76.0	750
	77.0	870
	78.0	1070
	79.0	1370
	79.5	3010
	80.5	4760
	81.0	6110
	87.1	8110
	92.2	9200
	106.4	11000
	111.4	11700
	121.6	12500
	131.7	13200
	141.8	13900
	152.0	14600
	162.1	15100
	192.5	16300
	222.9	17400
	243.1	17700
	293.8	18400
	334.3	18700

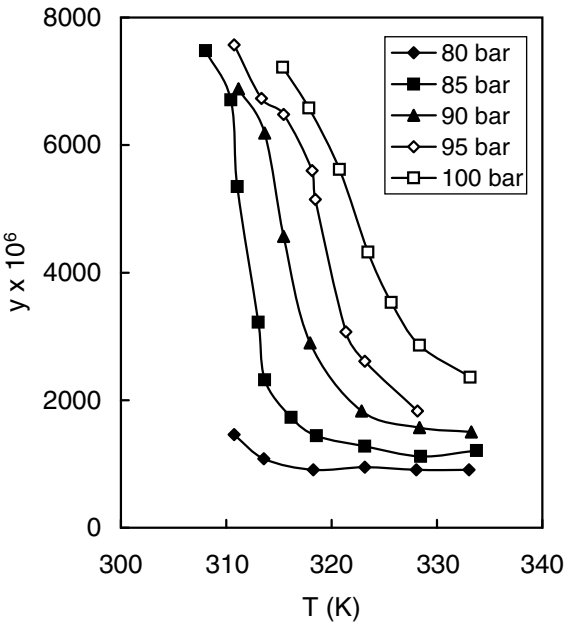


318.15	62.8	470
	72.9	480
	78.0	670
	82.1	780
	85.6	1100
	88.1	1300
	92.2	2100
	95.7	4300
	97.8	5100
	99.3	6100
	101.3	6900
	106.4	9700
	109.4	11300
	119.5	14200
	126.6	15400
	141.8	18300
	155.0	19700
	202.6	24500
	278.6	28500
	314.0	29400
328.15	77.0	1100
	92.2	2400
	94.2	2000
	99.3	2400
	102.3	3000
	106.4	4200
	111.4	6100
	114.5	7700
	116.5	9200
	119.5	10800
	122.6	12700
	125.6	14200
	131.7	18100
	142.8	23400
	152.0	26400
	162.1	30000
	172.2	32400
	182.3	35600
	197.5	39900
	233.0	45900
	253.3	48500
	324.2	55000

Source: Tsekhanskaya, Yu. V.; Iomtev, M. B.; Mushkina, E. V. *Z. Fiz. Khim.* (1964), 38(9), 2166-2171.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-17]**

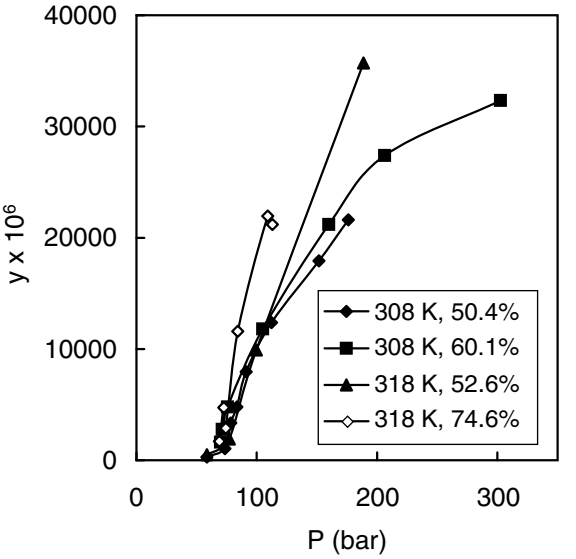
P (bar)	T (K)	y x 10^6
80.0	310.75	1460
	313.55	1080
	318.25	910
	323.15	950
	328.05	910
	333.05	910
85.0	308.05	7480
	310.45	6710
	311.05	5350
	313.05	3220
	313.65	2320
	316.15	1730
	318.55	1440
	323.15	1280
	328.45	1120
	333.75	1210
90.0	311.15	6880
	313.65	6190
	315.45	4570
	317.95	2900
	322.85	1830
	328.35	1570
	333.25	1500
95.0	310.75	7570
	313.35	6730
	315.45	6480
	318.15	5600
	318.45	5150
	321.35	3070
	323.15	2610
	328.15	1830
100.0	315.35	7220
	317.85	6580
	320.75	5620
	323.45	4320
	325.65	3530
	328.35	2860
	333.15	2360



Source: Zhao, S.; Wang, R.; Yang, G. *J. Supercrit. Fluids* (1995), 8(1), 15-19.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-18]**

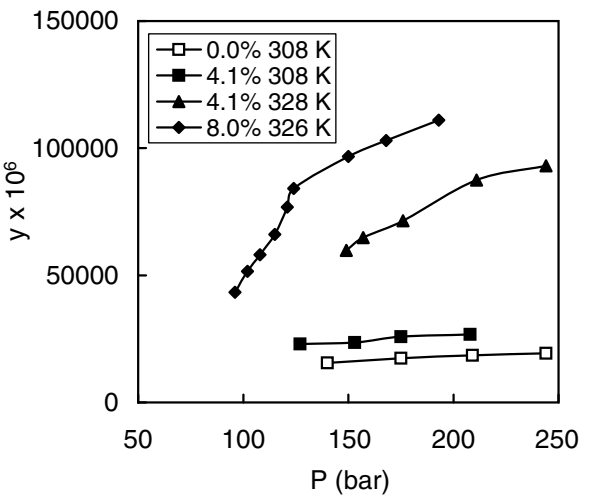
T(K)	P(bar)	Ethane[1)] (mol%)	y x 10^6
308	58.7	50.4	280
	73.4	50.4	1050
	78.4	50.4	3340
	83.4	50.4	4800
	91.1	50.4	7960
	112.1	50.4	12370
	151.7	50.4	17920
	176.1	50.4	21620
	69.9	60.1	1620
	71.4	60.1	2760
	75.7	60.1	4800
	104.9	60.1	11800
	159.9	60.1	21200
	206.2	60.1	27400
	302.5	60.1	32340
318	58.7	52.6	500
	77.1	52.6	1900
	99.6	52.6	9910
	188.7	52.6	35700
	69.0	74.6	1710
	72.5	74.6	4730
	74.4	74.6	2890
	84.3	74.6	11580
	109.0	74.6	21960
	113.1	74.6	21180



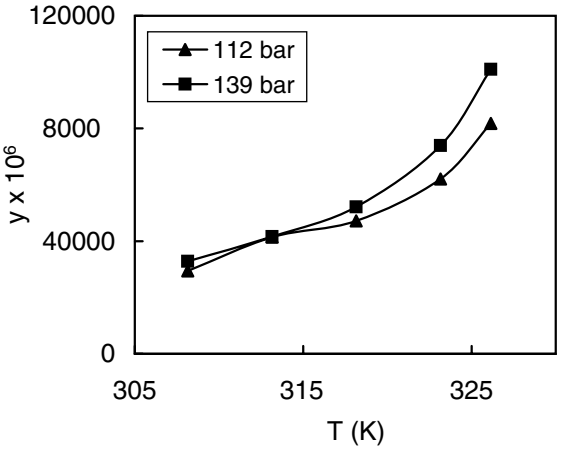
1: Cosolvent in CO_2 on a solute-free basis.
Source: Hollar, W. E., Jr.; Ehrlich, P. *J. Chem. Eng. Data* (1990), 35(3), 271-275.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-19]**

T (K)	P (bar)	*n*-Pentane[1)] (mol%)	y x 10^6
308.15	140	0.0	15500
	175	0.0	17400
	209	0.0	18500
	244	0.0	19300
	127	4.1	23000
	153	4.1	23600
	175	4.1	25800
	208	4.1	26800
328.15	149	4.1	59800
	157	4.1	64800
	176	4.1	71500
	211	4.1	87500
	244	4.1	93100



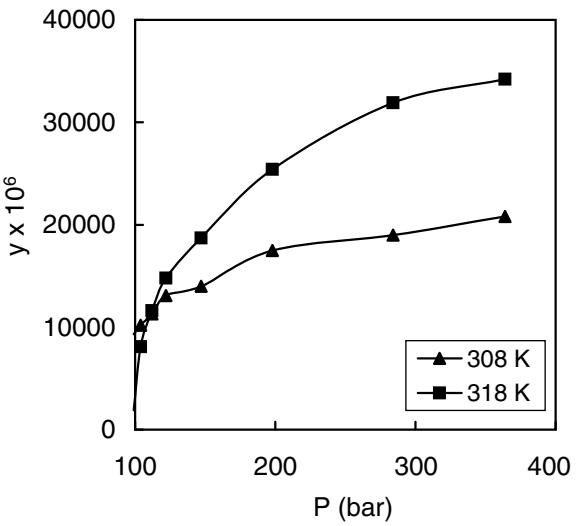
326.15	96	8.0	43300
	102	8.0	51600
	108	8.0	58100
	115	8.0	66100
	121	8.0	76800
	124	8.0	84200
	150	8.0	96700
	168	8.0	103000
	193	8.0	111000
308.15	112	8.5	29400
313.15	112	8.5	41400
318.15	112	8.5	47200
323.15	112	8.5	62100
326.15	112	8.5	81800
308.15	139	8.5	32800
313.15	139	8.5	41600
318.15	139	8.5	52100
323.15	139	8.5	73900
326.15	139	8.5	101000



1: Cosolvent in CO_2 on a solute-free basis.
Source: Lemert, R. M.; Johnston, K. P. *Fluid Phase Equil.* (1990), 59(1), 31-55.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-20]**

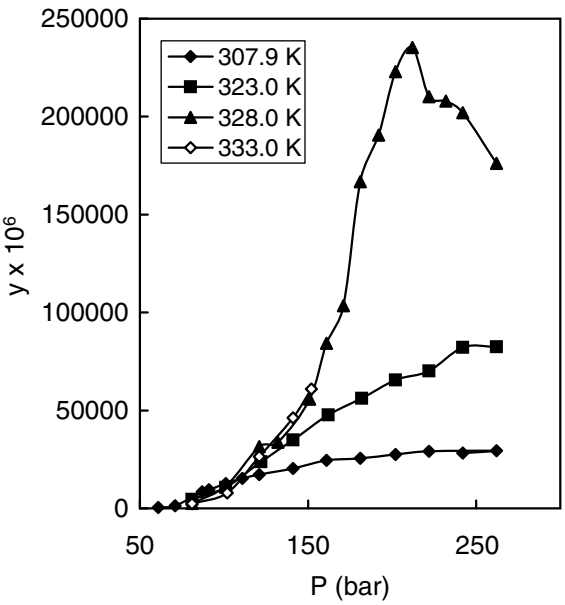
T (K)	P (bar)	Ethane[1)] (mol%)	y x 10^6
308.15	99.0	6.2	9300
	104.0	6.2	10200
	112.0	6.2	11300
	122.0	6.2	13100
	147.0	6.2	14000
	198.0	6.2	17500
	284.0	6.2	19000
	364.0	6.2	20800
318.15	99.0	6.2	1900
	104.0	6.2	8100
	112.0	6.2	11600
	122.0	6.2	14800
	147.0	6.2	18700
	198.0	6.2	25400
	284.0	6.2	31900
	364.0	6.2	34200



1: Cosolvent in CO_2.
Source: Schmitt, W. J.; Reid, R. C. *Fluid Phase Equil.* (1986), 32(1), 77-99.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-21]**

T (K)	P (bar)	Ethane[1] (mol %)	y[2] x 10^6
307.9	60.9	56.9	420
	71.0	57.4	1290
	87.0	59.1	8530
	91.0	57.6	9560
	101.0	55.6	12600
	111.0	57.4	15300
	121.0	56.4	17200
	141.0	55.3	20400
	161.0	54.8	24500
	181.0	59.6	25500
	202.0	54.9	27500
	222.0	59.7	29200
	262.0	59.0	29500
	242.0	59.1	28300
323.0	81.0	57.8	4550
	101.0	57.8	10740
	122.0	57.7	23800
	141.0	57.4	35000
	162.0	63.8	47640
	182.0	63.8	56240
	202.0	63.9	65500
	222.0	64.2	70100
	242.0	62.3	82200
	262.0	62.5	82520
328.0	81.0	63.8	2570
	101.0	63.5	11500
	121.0	62.8	31500
	132.0	57.0	33700
	151.0	57.0	55700
	161.0	59.6	84300
	171.0	55.5	10350
	181.0	59.7	166800
	192.0	52.4	19050
	202.0	60.4	222900
	212.0	57.0	235300
	222.0	60.8	210100
	232.0	56.8	207900
	242.0	60.9	202000
	262.0	63.1	176200
333.0	81.0	61.9	2410
	102.0	61.2	7840
	121.0	61.2	26400
	141.0	61.7	46200
	152.0	61.1	61000

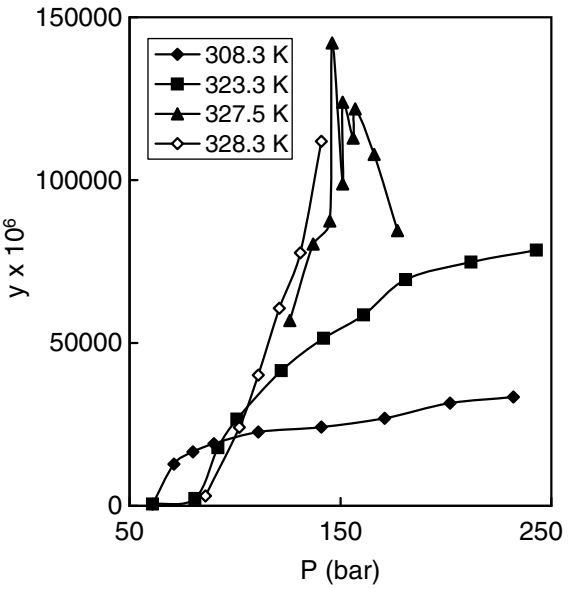


1: Cosolvent in CO_2 on a solute-free basis.

Source: Smith, G. R.; Wormald, C. J. *Fluid Phase Equil.* (1990), 57(1-2), 205-222.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-22]**

T (K)	P (bar)	Propane[1)] (mol %)	y x 10^6
308.3	60.9	15.6	520
	71.0	15.6	12800
	80.0	15.2	16600
	90.0	15.2	19100
	111.0	15.2	22700
	141.0	15.2	24200
	171.0	15.0	26900
	202.0	15.6	31500
	232.0	15.5	33400
323.3	60.9	14.9	510
	81.0	14.9	2230
	92.0	16.1	17800
	101.0	15.0	26600
	122.0	15.0	41500
	142.0	14.8	51400
	161.0	15.4	58600
	181.0	16.0	69400
	212.0	16.0	74800
	243.0	16.4	78500
327.5	126.0	15.0	56900
	137.0	14.8	80400
	145.0	15.0	87500
	146.0	15.0	142100
	151.0	14.0	98800
	151.0	15.4	123900
	156.0	15.4	112900
	157.0	15.0	121900
	166.0	14.8	107900
	177.0	15.2	84500
328.3	86.0	15.2	3050
	102.0	15.2	24100
	111.0	15.2	40100
	121.0	15.2	60700
	131.0	15.3	77700
	141.0	15.2	111900



1. Cosolvent in CO_2 on a solute-free basis.

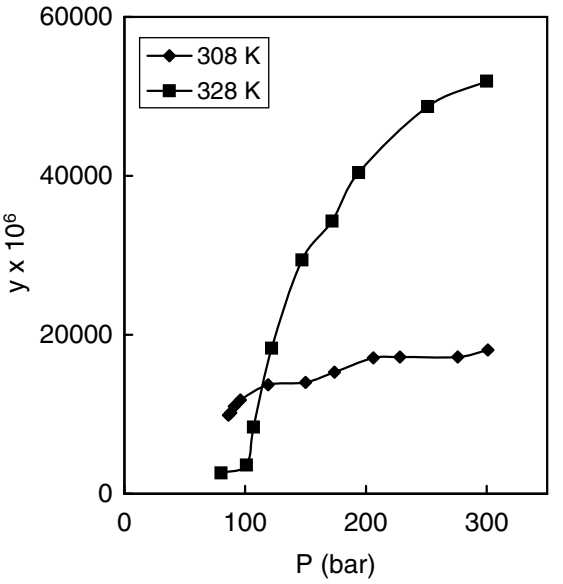
Source: Smith, G. R.; Wormald, C. J. *Fluid Phase Equil.* (1990), 57(1-2), 205-222.

Naphthalene ($C_{10}H_8$; MW=128.17) **[N-23]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
308	86	15	9900
	88	15	10200
	91	17	11000
	96	19	11800
	119	24	13700
	150	26	14000
	174	30	15300
	206	35	17100
	228	35	17200
	276	37	17200
	301	39	18100
328	80	1	2600
	101	3	3600
	107	8	8400
	122	22	18300
	147	45	29400
	172	57	34300
	194	72	40400
	251	95	48700
	300	106	51900

1: Calculated from M.

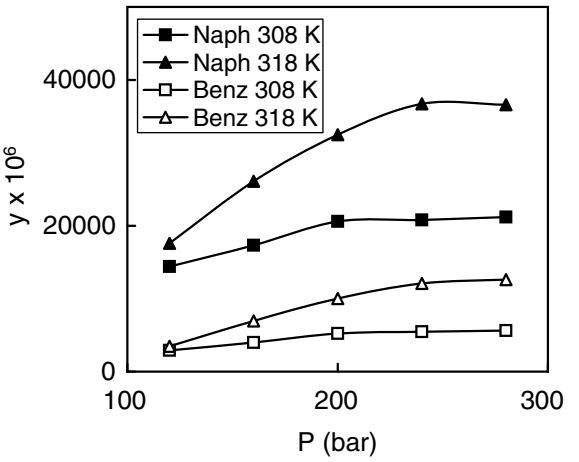
Source: Wagner, K.-D.; Dahmen, N.; Dinjus, E., *J. Chem. Eng. Data* (2000), 45(4), 672-677.



Naphthalene (1) + Benzoic acid (2) Mixture **[N-24]**

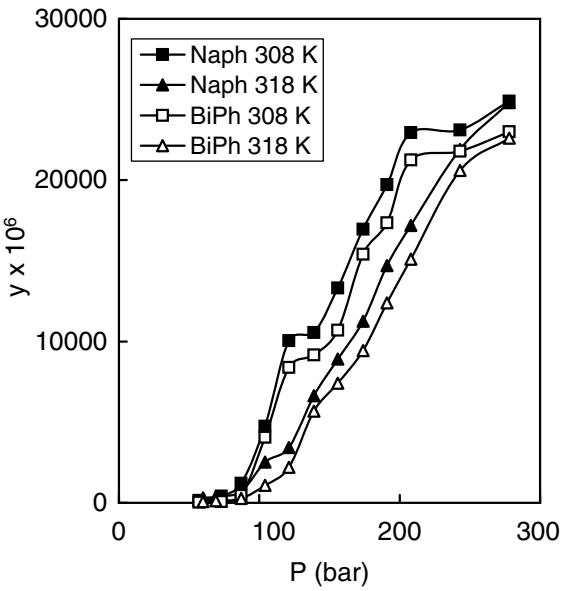
T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
308	120	14400	2930
	160	17300	4010
	200	20600	5220
	240	20800	5460
	280	21200	5610
318	120	17600	3490
	160	26100	6960
	200	32500	10000
	240	36700	12100
	280	36600	12600

Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.



Naphthalene (1) + Biphenyl (2) Mixture[1)] **[N-25]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	57	140	30
	73	410	80
	87	1210	460
	104	4740	4060
	121	10050	8390
	139	10550	9160
	156	13320	10690
	174	16950	15400
	191	19710	17350
	208	22950	21250
	243	23100	21800
	278	24900	23000
318	60	310	80
	69	380	120
	87	710	270
	104	2520	1080
	121	3430	2200
	139	6640	5690
	156	8910	7420
	174	11250	9430
	191	14700	12400
	208	17200	15100
	243	21900	20600
	278	24800	22600

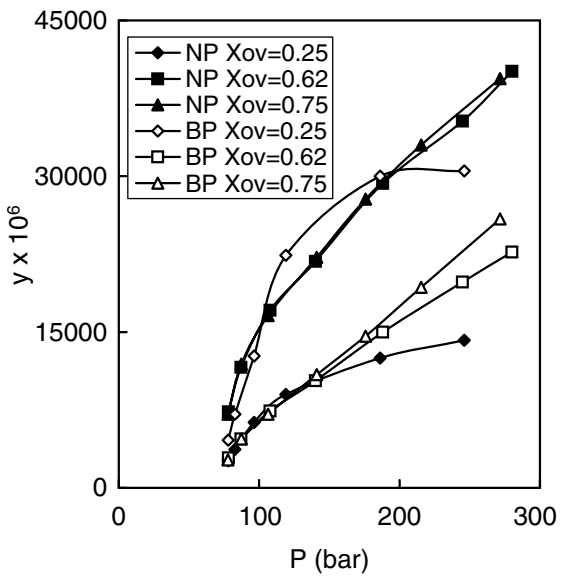


1: Initial composition of the mixture of 1 and 2 = 45:55 (mol%).

Source: Gopal, J. S.; Holder, G. D.; Kosal, E. *Ind. Eng. Chem. Proc. Des. Dev.* (1985), 24(3), 697-701.

Naphthalene (1) + Biphenyl (2) Mixture **[N-26]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2^{2)} \times 10^6$
		$x_{ov}^{1)} = 0.25$	
308.15	77.9	2600	4600
	82.7	3700	7100
	96.4	6300	12700
	119.1	9000	22400
	186.1	12500	30000
	246.1	14200	30500
		$x_{ov}^{1)} = 0.62$	
	78.2	7300	2900
	87.0	11600	4700
	107.9	17100	7400
	140.2	21800	10300
	188.1	29300	15000
	244.9	35300	19800
	280.1	40100	22700



x_{ov}[1)]= 0.75		
77.7	7100	2700
87.3	11900	4700
106.4	16600	7100
140.9	22200	10900
175.8	27800	14600
215.4	33000	19300
271.7	39400	25900

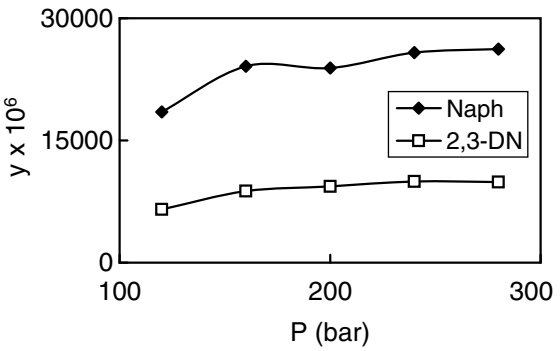
1: Initial (overall) composition of naphthalene (mole fraction).
2: The authors confirmed the large biphenyl data at x_{ov}= 0.25.

Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.

Naphthalene (1) + 2,3-Dimethylnaphthalene (2) Mixture **[N-27]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
308	120	18500	6520
	160	24100	8800
	200	23900	9340
	240	25800	9950
	280	26200	9900

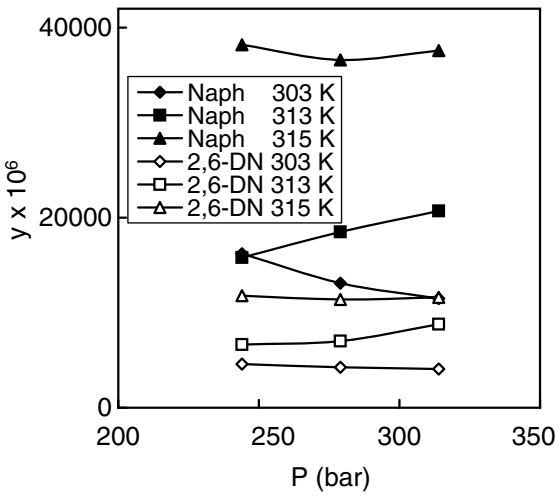
Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.



Naphthalene (1) + 2,6-Dimethylnaphthalene (2) Mixture **[N-28]**

T (K)	P (bar)	y_1 x 10^6	y_2x 10^6
303.15	244	16200	4590
	279	13100	4270
	314	11500	4060
308.15	244	15200	5410
	279	15600	5510
	314	15000	5390
313.15	244	15800	6640
	279	18500	7020
	314	20700	8780
315.15	244	38200	11800
	279	36600	11400
	314	37600	11600
317.15	314	53400	17000

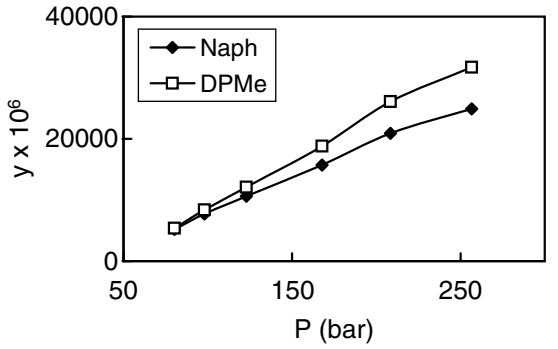
Source: Lemert, R. M.; Johnston, K. P. *Fluid Phase Equil.* (1990), 59(1), 31-55.



Naphthalene (1) + Diphenylmethane (2) Mixture **[N-29]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
	x_{ov} [1)] = 0.44		
308.15	80.3	5200	5400
	98.1	7700	8400
	122.9	10600	12100
	167.8	15700	18800
	208.5	20900	26100
	256.7	24900	31700

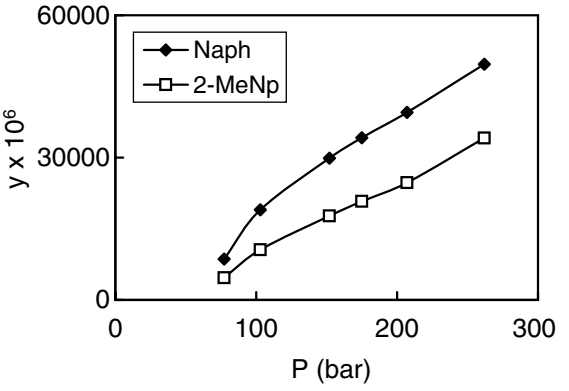
1: Initial (overall) composition of naphthalene (mole fraction).
Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.



Naphthalene (1) + 2-Methylnaphthalene (2) Mixture **[N-30]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
	x_{ov} [1)] = 0.62		
308.15	77.3	8600	4700
	103.0	19000	10600
	152.0	29900	17700
	175.0	34200	20800
	207.0	39500	24700
	261.9	49700	34100

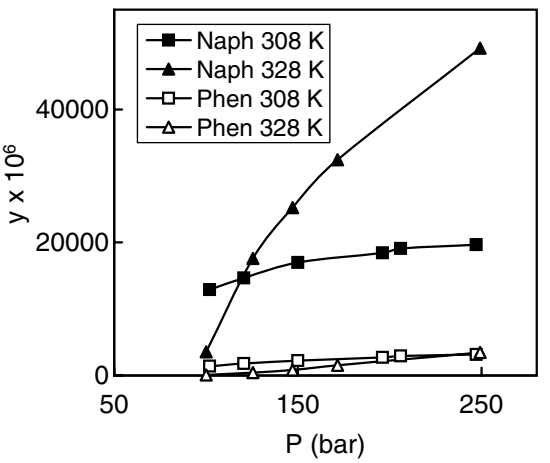
1: Initial (overall) composition of naphthalene (mole fraction).
Source: Chung, S. T.; Shing, K. S. *Fluid Phase Equil.* (1992), 81, 321-341.



Naphthalene (1) + Phenanthrene (2) Mixture **[N-31]**

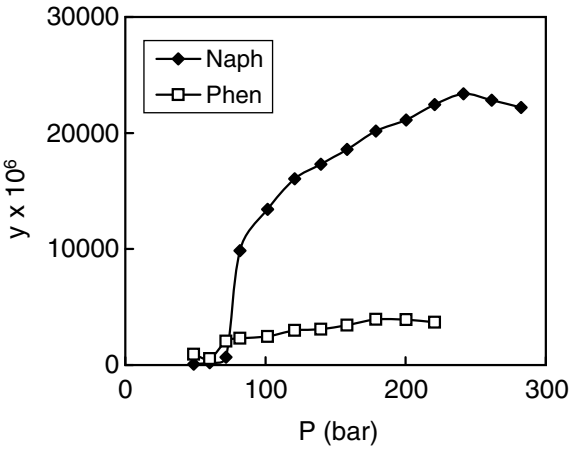
T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	102.0	12900	1390
	120.6	14670	1780
	150.0	17000	2220
	196.1	18450	2706
	205.9	19100	2928
	247.1	19670	3161
328	100.0	3550	100
	125.5	17600	448
	147.1	25240	842
	171.6	32420	1522
	249.1	49200	3459

Source: Sako, T.; Yamane, S.; Negishi, A.; Sato, M. *Sekiyu Gakkaishi* (1994), 37(3), 321-327.



Naphthalene (1) + Phenanthrene (2) mixture **[N-32]**

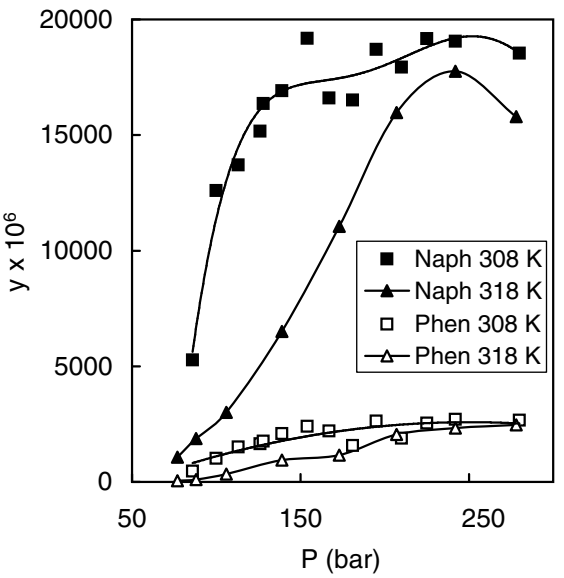
T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.2	48.7	81	ND
	60.2	194	ND
	71.8	688	ND
	81.7	9861	935
	101.6	13411	543
	120.9	16050	2059
	139.6	17320	2302
	158.1	18580	2469
	178.7	20170	2990
	200.4	21130	3096
	220.7	22440	3425
	241.3	23370	3931
	261.4	22820	3908
	282.3	22210	3683



ND : Not detectable.
Source: Liu, G.-T.; Nagahama, K. *J. Supercrit. Fluids* (1996), 9(3), 152-160.

Naphthalene (1) + Phenanthrene (2) Mixture[1)] **[N-33]**

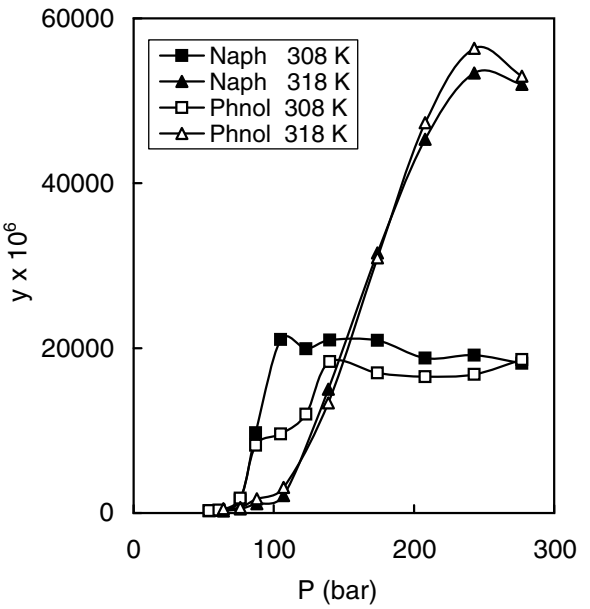
T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	86	5280	462
	100	12600	1021
	113	13710	1516
	126	15170	1647
	128	16360	1763
	139	16920	2089
	154	19180	2410
	167	16600	2205
	181	16510	1570
	195	18700	2628
	210	17940	1894
	225	19170	2540
	242	19050	2707
	280	18540	2674
318	77	1070	48
	88	1870	103
	106	3010	344
	139	6510	944
	173	11050	1158
	207	15970	2048
	242	17760	2333
	278	15800	2461



1: Initial composition of the mixture of 1 and 2 = 40:60 (mol%).
Source: Gopal, J. S.; Holder, G. D.; Kosal, E. *Ind. Eng. Chem. Proc. Des. Dev.* (1985), 24(3), 697-701.

Naphthalene (1) + Phenol (2) Mixture[1)] **[N-34]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	54	230	290
	61	270	360
	76	1590	1800
	87	9730	8230
	105	21030	9580
	123	19930	12000
	140	20970	18350
	174	20940	17000
	208	18800	16550
	243	19150	16810
	277	18150	18600
318	64	260	530
	76	500	680
	88	1120	1720
	107	2100	3100
	139	15020	13360
	174	31550	30940
	208	45340	47340
	243	53370	56360
	277	52000	53000

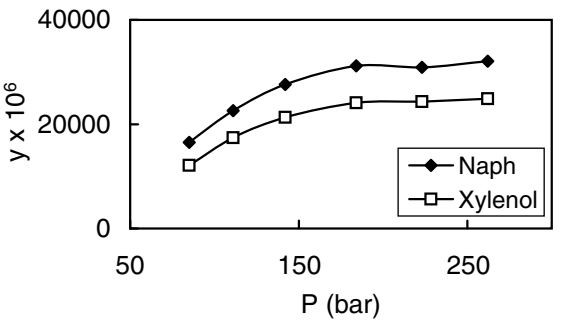


1: Initial composition of the mixture of the solutes 1 and 2 = 60:40 (mol%).

Source: Gopal, J. S.; Holder, G. D.; Kosal, E. *Ind. Eng. Chem. Proc. Des. Dev.* (1985), 24(3), 697-701.

Naphthalene (1) + 2,5-Xylenol (2) Mixture **[N-35]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.15	85	16500	12100
	111	22600	17400
	142	27600	21300
	184	31200	24100
	223	30900	24300
	262	32100	24900

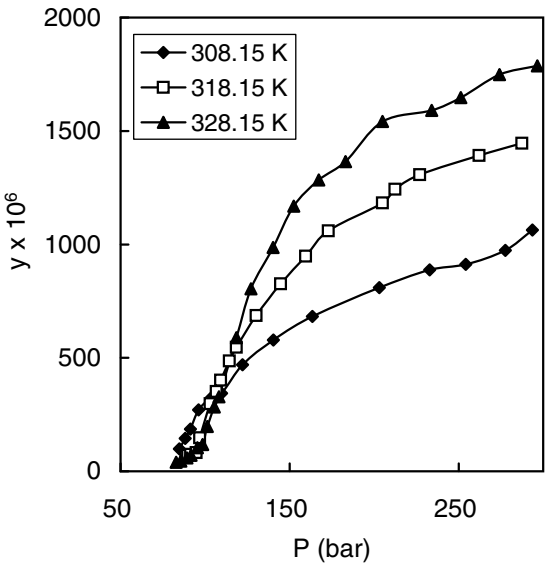


Source: Mori, Y.; Shimizu, T.; Iwai, Y.; Arai, Y. *J. Chem. Eng. Data* (1992), 37(3), 317-19.

α-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-36]**

T (K)	P (bar)	y x 10^6
308.15	84.7	99
	88.2	145
	91.3	187
	96.1	271
	103.5	324

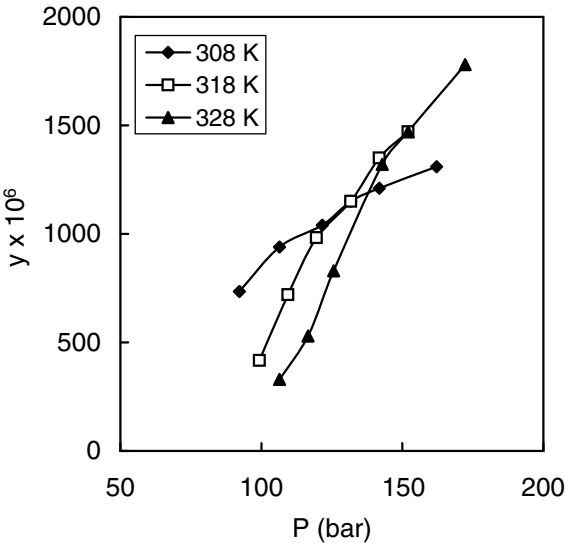
	109.7	344
	122.2	470
	140.4	579
	163.4	683
	203.1	09
	232.8	888
	254.2	912
	277.6	973
	293.6	1063
318.15	88.7	66
	89.7	71
	91.5	74
	94.8	82
	96.9	148
	103.0	298
	106.6	352
	109.2	401
	114.4	486
	118.5	547
	130.3	687
	144.7	826
	159.5	948
	173.0	1059
	205.0	1183
	212.3	1244
	227.0	1307
	262.2	1391
	287.4	1446
328.15	82.8	40
	85.6	45
	89.3	59
	91.7	71
	95.4	103
	98.5	118
	101.3	198
	105.4	284
	108.2	328
	118.5	588
	127.1	804
	140.2	987
	152.4	1168
	167.3	1284
	183.1	1364
	205.0	1542
	234.0	1591
	251.3	1647
	274.2	1749
	296.5	1788



Synonyms: 1-Naphthalenol; 1-Naphthol
Source: Coutsikos, P.; Magoulas, K.; Tassios, D.
J. Chem. Eng. Data (1995), 40(4), 953-958.

α-Naphthol ($C_{10}H_8O$; MW=144.17) [N-37]

T (K)	P (bar)	y x 10^6
308	92.2	735
	106.4	940
	121.6	1040
	131.7	1150
	141.9	1210
	162.1	1310
318	99.3	417
	109.4	720
	119.6	982
	131.7	1150
	141.9	1350
	152.0	1470
328	106.4	330
	116.5	530
	125.6	830
	142.9	1320
	152.0	1470
	172.3	1780

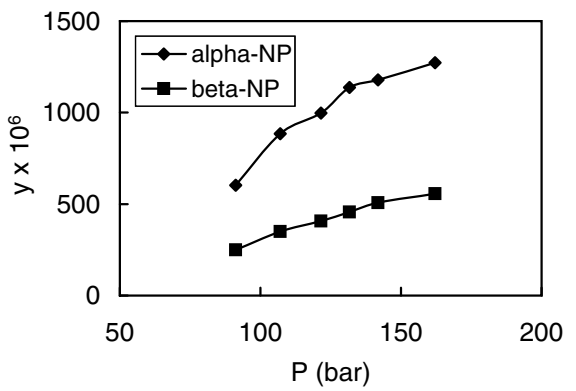


Synonyms: 1-Naphthalenol; 1-Naphthol
Source: Tan, C. S.; Weng, J. Y. *Fluid Phase Equil.* (1987), 34(1), 37-47.

α-Naphthol (1) + β-Naphthol (2) Mixture[1] [N-38]

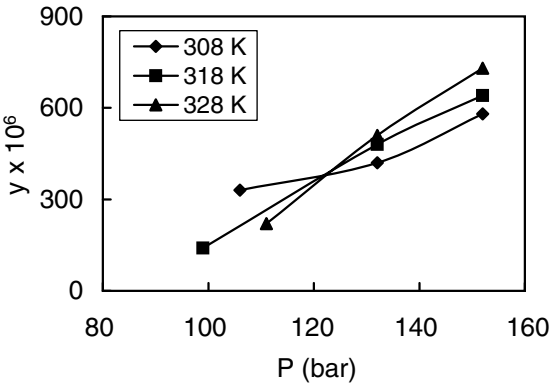
T (K)	P[2] (bar)	y_1[2] x 10^6	y_2[2] x 10^6
308	91	603	250
	107	884	350
	122	998	407
	132	1138	457
	142	1179	507
	162	1272	557

1: Initial composition of the mixture of 1 and 2 = 50:50(%).
2: Obtained by digitizing the graph in the original article.
Source: Tan, C. S.; Weng, J. Y. *Fluid Phase Equil.* (1987), 34(1), 37-47.



β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-39]**

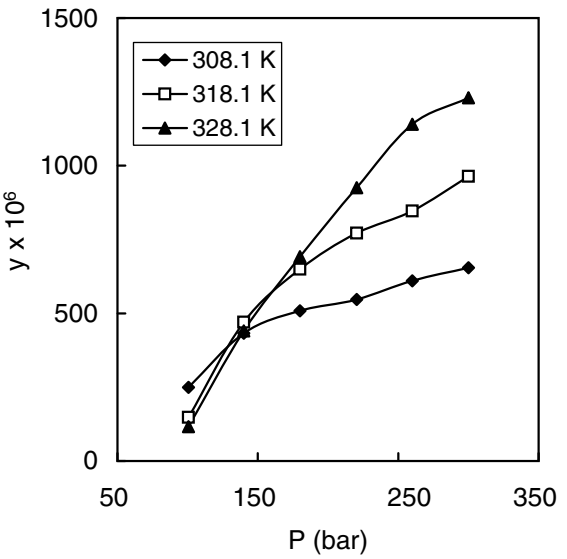
T (K)	P (bar)	y x 10^6
308	106	330
	132	420
	152	580
318	99	140
	132	480
	152	640
328	111	220
	132	510
	152	730



Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Abaroudi, K.; Trabelsi, F.; Recasens, F. *Fluid Phase Equil.* (2000),169(2), 177-189.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-40]**

T (K)	P (bar)	y x 10^6
308.1	100.5	249
	140.0	433
	180.0	509
	220.5	547
	260.0	610
	300.0	654
318.1	100.5	148
	140.0	470
	180.0	649
	220.5	772
	260.0	847
	300.0	964
328.1	100.5	116
	140.0	441
	180.0	692
	220.5	925
	260.0	1140
	300.0	1230

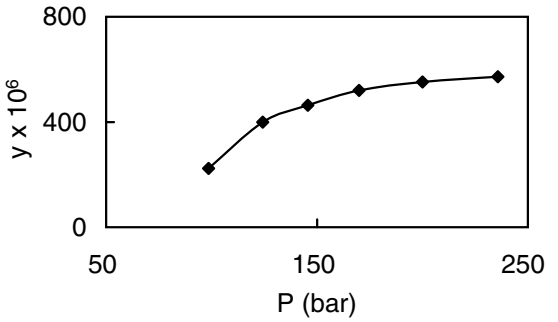


Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Li, Q.; Zhang, Z.; Zhong, C.; Liu, Y.; Zhou, Q. *Fluid Phase Equil.* (2003), 207(1-2), 183-192.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-41]**

T (K)	P[1)] (bar)	y[1)] x 10^6
308.15	98.6	224
	124.3	400
	145.7	464
	170.0	520
	200.0	552
	235.7	572

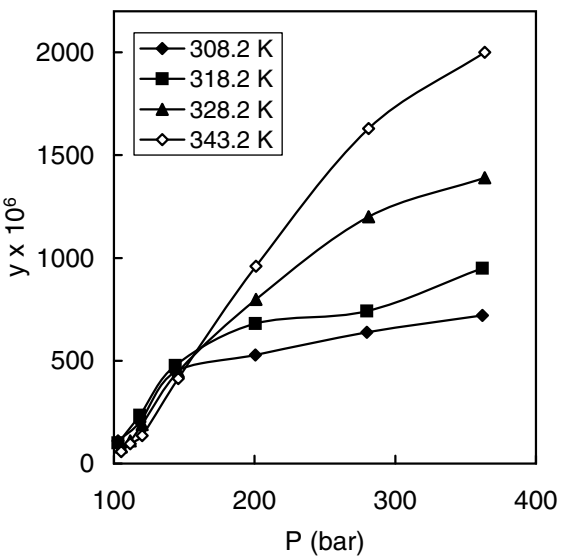
1: Obtained by digitizing the graph in the original article.



Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Nakatani, T.; Ohgaki, K.; Katayama, T. *Ind. Eng. Chem. Res.* (1991), 30(6), 1362-1366.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-42]**

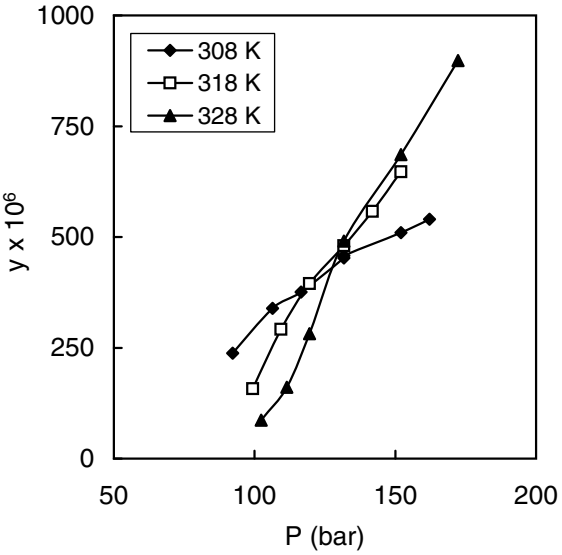
T (K)	P (bar)	y x 10^6
308.25	102.8	110
	118.5	202
	143.7	446
	200.5	528
	279.7	638
	362.0	720
318.25	102.8	100
	118.5	235
	143.7	477
	200.5	681
	279.7	742
	362.0	950
328.05	105.2	80
	111.5	110
	120.0	189
	145.7	448
	201.0	798
	281.0	1200
	363.6	1390
343.05	105.2	58
	111.5	97
	120.0	136
	145.7	414
	201.0	960
	281.0	1630
	363.6	2000



Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Schmitt, W. J.; Reid, R. C. *J. Chem. Eng. Data* (1986), 31(2), 204-212.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-43]**

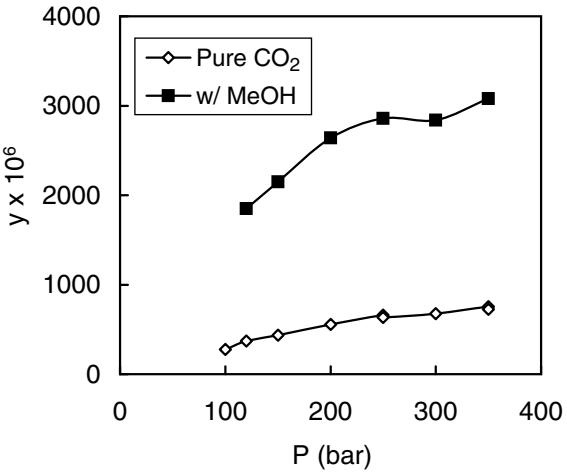
T (K)	P (bar)	y x 10^6
308	92.2	238
	106.4	339
	116.5	376
	131.7	453
	131.7	458
	152.0	510
	162.1	540
318	99.3	158
	109.4	292
	119.6	395
	131.7	480
	141.9	558
	152.0	647
328	102.3	86
	111.5	161
	119.6	282
	131.7	491
	152.0	686
	172.3	898



Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Tan, C. S.; Weng, J. Y. *Fluid Phase Equil.* (1987), 34(1), 37-47.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-44]**

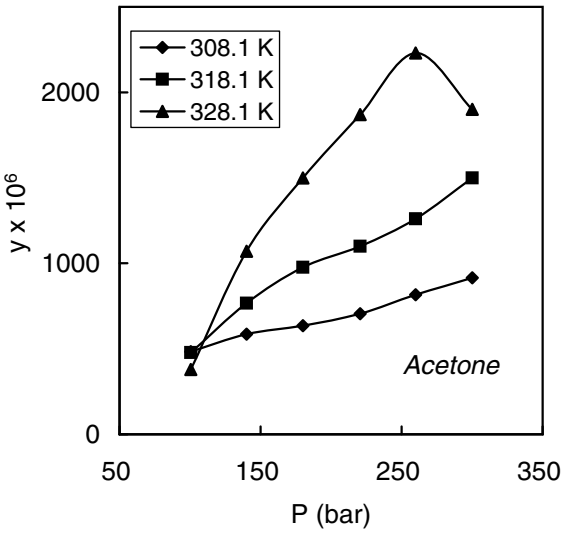
T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
308.15	100	0.0	277
	120	0.0	372
	150	0.0	437
	200	0.0	557
	250	0.0	661
	250	0.0	635
	300	0.0	678
	350	0.0	754
	350	0.0	726
	120	3.5	1850
	150	3.5	2150
	200	3.5	2640
	250	3.5	2860
	300	3.5	2840
	350	3.5	3080

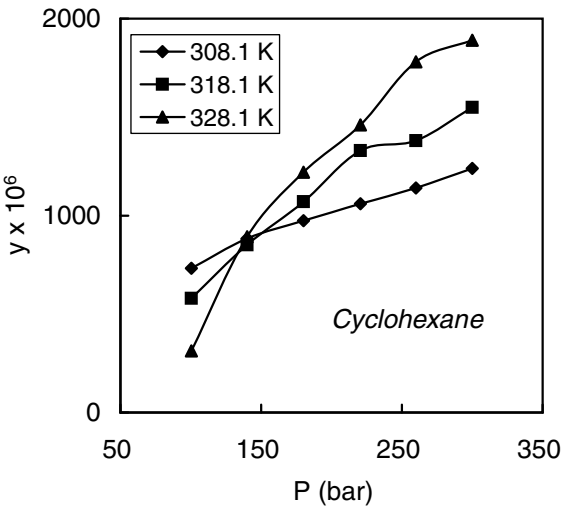


1: Cosolvent in CO_2.
Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.

β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-45]**

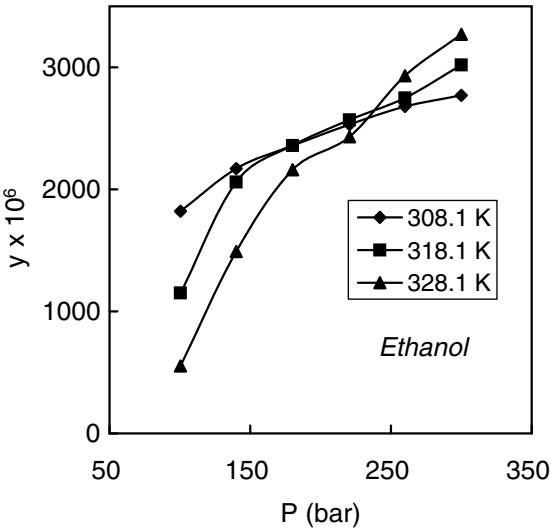
T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
		Acetone	
308.1	101	3.6	483
	140	3.6	585
	180	3.6	635
	221	3.6	706
	260	3.6	816
	300	3.6	916
318.1	101	3.6	478
	140	3.6	766
	180	3.6	977
	221	3.6	1100
	260	3.6	1260
	300	3.6	1500
328.1	101	3.6	379
	140	3.6	1070
	180	3.6	1500
	221	3.6	1870
	260	3.6	2230
	300	3.6	1900
		Cyclohexane	
308.1	101	3.6	733
	140	3.6	884
	180	3.6	974
	221	3.6	1060
	260	3.6	1140
	300	3.6	1240
318.1	101	3.6	580
	140	3.6	851
	180	3.6	1070
	221	3.6	1330
	260	3.6	1380
	300	3.6	1550
328.1	101	3.6	313
	140	3.6	893
	180	3.6	220
	221	3.6	1460
	260	3.6	1780
	300	3.6	1890
		Ethanol	
308.1	101	3.6	1820
	140	3.6	2170
	180	3.6	2360
	221	3.6	2530
	260	3.6	2680
	300	3.6	2770





318.1	101	3.6	1150
	140	3.6	2060
	180	3.6	2360
	221	3.6	2570
	260	3.6	2750
	300	3.6	3020
328.1	101	3.6	553
	140	3.6	1490
	180	3.6	2160
	221	3.6	2430
	260	3.6	2930
	300	3.6	3270

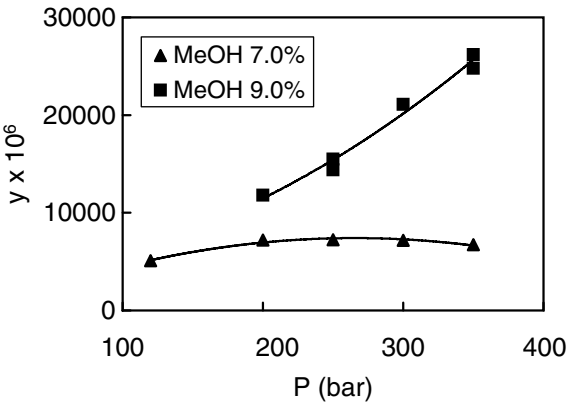
1: Cosolvent in CO_2.
Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Li, Q.; Zhang, Z.; Zhong, C.; Liu, Y.; Zhou, Q. *Fluid Phase Equil.* (2003), 207(1-2), 183-192.



β-Naphthol ($C_{10}H_8O$; MW=144.17) [N-46]

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
308.15	120	7.0	5080
	200	7.0	7200
	250	7.0	7240
	300	7.0	7170
	350	7.0	6730
	200	9.0	11800
	250	9.0	14400
	250	9.0	15500
	300	9.0	21100
	350	9.0	24800
	350	9.0	26200

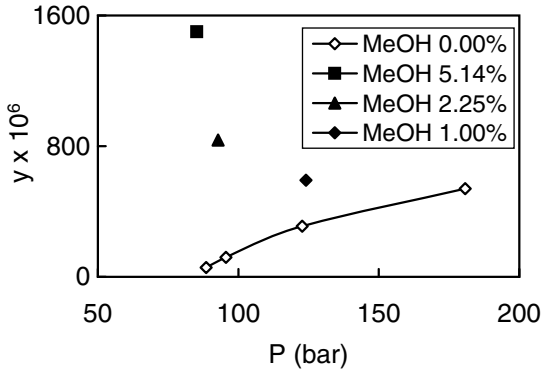
1: Cosolvent in CO_2.
Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.



β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-47]**

T (K)	P (bar)	Methanol[1)] (mol %)	y x 10^6
313	88.5	0	57
	95.6	0	120
	122.7	0	310
	180.7	0	539
	85.2	5.14	1500
	92.8	2.25	838
	124.1	1.00	592

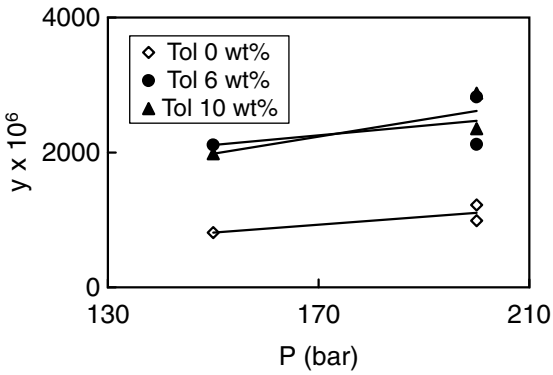
1: Cosolvent in CO_2.
Synonyms: 2-Naphthalenol; 2-Naphthol
Source: Ngo, T. T.; Bush, D.; Eckert, C. A.; Liotta, C. L. *AIChE J.* (2001), 47(11), 2566-2572.



β-Naphthol ($C_{10}H_8O$; MW=144.17) **[N-48]**

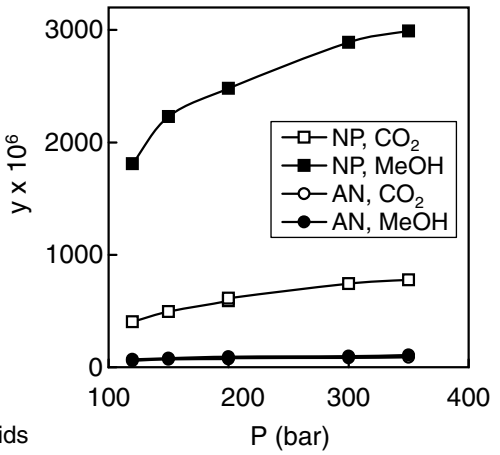
T (K)	P (bar)	Toluene[1)] (wt%)	y × 10^6
368	150	0	810
	200	0	990
	200	0	1220
	150	6	2110
	200	6	2120
	200	6	2820
	150	10	1980
	200	10	2350
	200	10	2880

1: Cosolvent in CO_2.
Synonyms: 2-Naphthalenol; 2-Naphthol
Calloud-Gabriel, B.; Recasens, F. *Ind. Eng. Chem. Res.* (1999), 38(9), 3505-3518.



β-Naphthol (1) + Anthracene (2) Mixture[1)] [N-49]

T (K)	P (bar)	Cosolvent (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.15	120	0.0	405	56
	150	0.0	494	70
	200	0.0	591	72
	200	0.0	613	79
	300	0.0	744	84
	350	0.0	776	89
		Methanol		
	120	3.5	1810	69
	150	3.5	2230	80
	200	3.5	2480	93
	300	3.5	2890	99
	350	3.5	2990	108

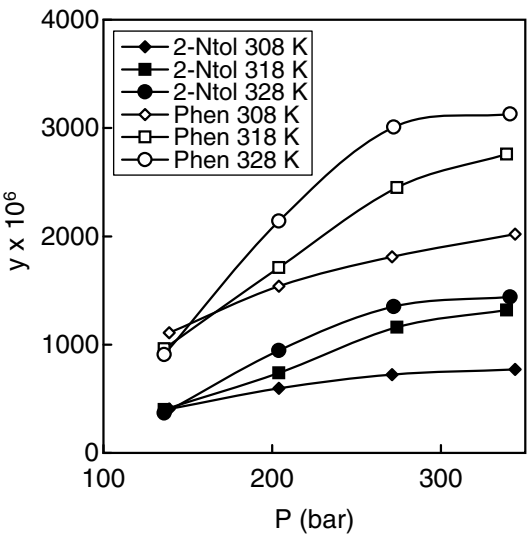


1: The solubility was measured from a mixture of solids 1 and 2 of 50:50 wt%.

Source: Dobbs, J. M.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(7), 1476-1482.

β-Naphthol (1) + Phenanthrene (2) Mixture [N-50]

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.15	139	406	1110
	204	596	1540
	271	722	1810
	344	772	2020
318.15	136	399	962
	204	738	1710
	274	1160	2450
	339	1320	2760
323.15	136	384	926
	204	866	1960
	274	1170	2660
	341	1310	3030
328.15	136	367	909
	204	946	2140
	272	1350	3010
	341	1440	3130



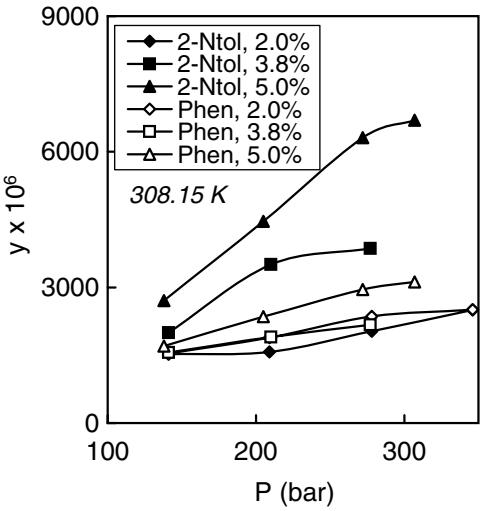
Source: Lemert, R. M.; Johnston, K. P. *Fluid Phase Equil.* (1990), 59(1), 31-55.

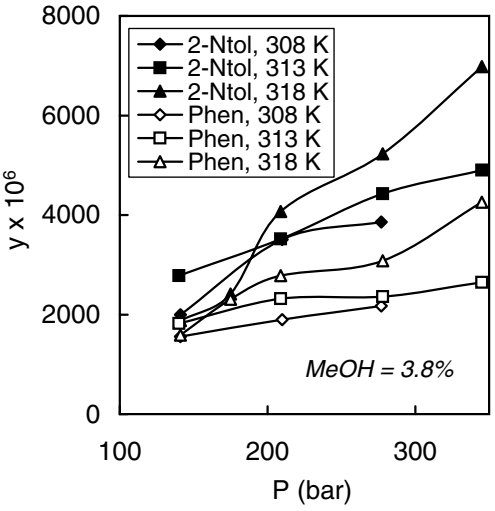
β-Naphthol (1) + Phenanthrene (2) Mixture **[N-51]**

T (K)	P (bar)	Methanol[1)] (mol%)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.15	141	2.0	1520	1540
	209	2.0	1570	1890
	278	2.0	2030	2360
	346	2.0	2500	2510
313.15	140	2.0	1290	1530
	209	2.0	1890	2150
	277	2.0	2340	2720
	346	2.0	2920	3000
318.15	141	2.0	1260	1520
	174	2.0	1700	1840
	210	2.0	2050	2330
	178	2.0	2740	2860
308.15	141	3.8	2000	1560
	210	3.8	3510	1900
	277	3.8	3860	2170
313.15	140	3.8	2780	1820
	209	3.8	3520	2320
	278	3.8	4430	2360
	345	3.8	4900	2650
318.15	141	3.8	1880	1590
	175	3.8	2410	2310
	209	3.8	4070	2780
	278	3.8	5230	3080
	345	3.8	6980	4260
308.15	138	5.0	2710	1700
	205	5.0	4460	2350
	272	5.0	6310	2950
	307	5.0	6700	3120
313.15	206	5.0	4170	2590
	273	5.0	8420	4140
308.15	140	6.0	5340	2620
	210	6.0	5150	2720
	277	6.0	9330	3480
	345	6.0	12400	4130

1: Cosolvent in CO_2 on a solute-free basis.

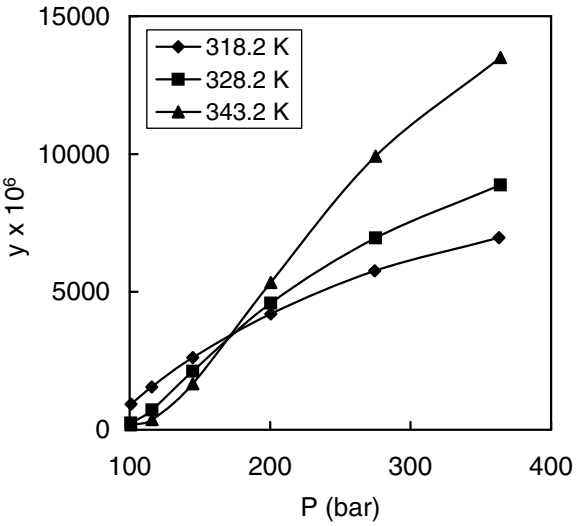
Source: Lemert, R. M.; Johnston, K. P. *Fluid Phase Equil.* (1990), 59(1), 31-55.





1,4-Naphthoquinone ($C_{10}H_6O_2$; MW=158.15) **[N-52]**

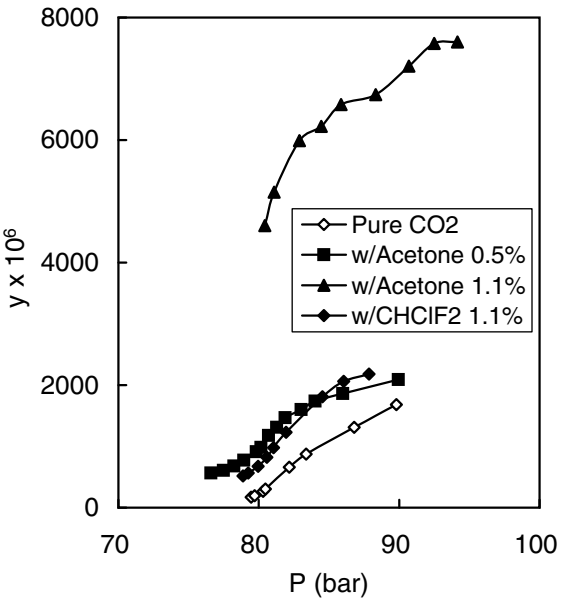
T (K)	P (bar)	y x 10^6
318.15	101.0	932
	115.8	1550
	145.0	2620
	200.5	4200
	274.5	5760
	363.0	6970
328.15	100.9	240
	116.0	720
	145.0	2120
	200.5	4590
	275.0	6960
	364.0	8880
343.15	100.8	180
	116.0	370
	145.0	1670
	200.5	5340
	275.0	9920
	364.0	13500



Synonyms: 1,4-Naphthalenedione; *p*-Naphthoquinone
Source: Schmitt, W. J.; Reid, R. C. *J. Chem. Eng. Data* (1986), 31(2), 204-212.

1,4-Naphthoquinone ($C_{10}H_6O_2$; MW=158.15) **[N-53]**

T (K)	P[1)] (bar)	Cosolvent[2)] (mol%)	y x 10^6
308.15	79.5	0.0	173
	79.7	0.0	193
	80.3	0.0	266
	80.5	0.0	306
	82.2	0.0	661
	83.4	0.0	872
	86.8	0.0	1310
	89.8	0.0	1680
		Acetone	
308.15	76.6	0.5	564
	77.5	0.5	607
	78.2	0.5	679
	78.9	0.5	776
	79.8	0.5	910
	80.2	0.5	985
	80.7	0.5	1180
	81.3	0.5	1310
	81.9	0.5	1470
	83.0	0.5	1600
	84.0	0.5	1740
	86.0	0.5	1860
	90.0	0.5	2090

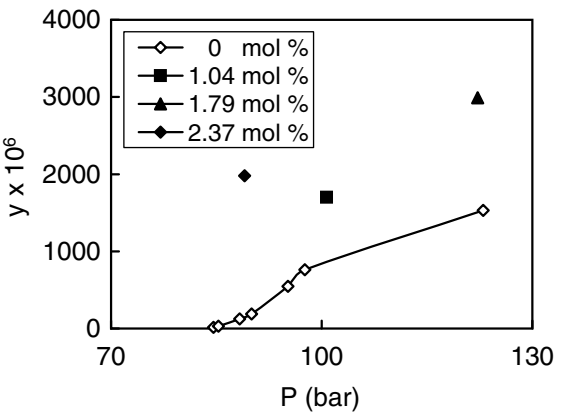


308.15	80.4	1.1	4601
	81.1	1.1	5150
	82.9	1.1	5992
	84.5	1.1	6222
	85.9	1.1	6581
	88.3	1.1	6740
	90.7	1.1	7209
	92.5	1.1	7578
	94.2	1.1	7602
		$CHClF_2$	
308.15	78.9	1.1	516
	79.3	1.1	566
	80.0	1.1	676
	80.6	1.1	824
	81.1	1.1	978
	82.0	1.1	1230
	84.5	1.1	1810
	86.1	1.1	2060
	87.9	1.1	2180

1: Pressure was calculated from density and temperature data in the source table.
2: Cosolvent in CO_2.
Synonyms: 1,4-Naphthalenedione; *p*-Naphthoquinone
Source: Zhang, X.; Han, B.; Hou, Z.; Zhang, J.; Liu, Z.; Jiang, T.; He, J.; Li, H. *Chem. Euro. J.* (2002), 8(22), 5107-5111.

1,4-Naphthoquinone ($C_{10}H_6O_2$; MW=158.15) **[N-54]**

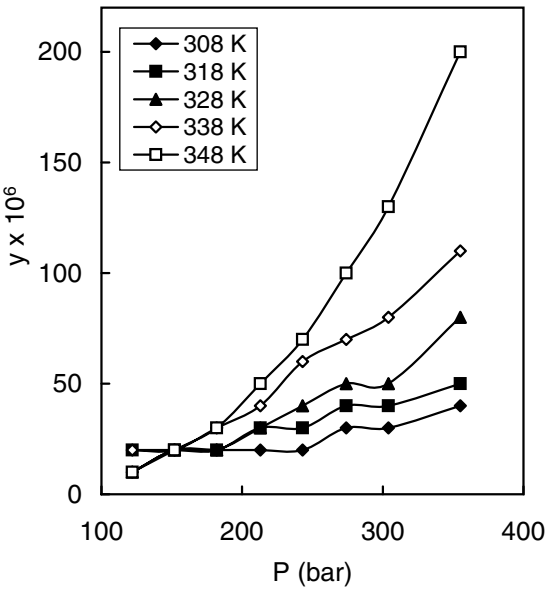
T (K)	P (bar)	Methanol[1)] (mol %)	y x 10^6
313	84.6	0	16
	85.3	0	30
	88.3	0	123
	90.0	0	187
	95.2	0	547
	97.6	0	761
	123.0	0	1530
	89.0	2.37	1980
	100.7	1.04	1700
	122.2	1.79	2990



1 : Cosolvent in CO_2.
Synonyms: 1,4-Naphthalenedione; *p*-Naphthoquinone
Source: Ngo, T. T.; Bush, D.; Eckert, C. A.; Liotta, C. L. *AIChE J.* (2001), 47(11), 2566-2572.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-55]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	0.05	10
	152	0.08	20
	182	0.09	20
	213	0.09	20
	243	0.11	20
	274	0.13	30
	304	0.15	30
	355	0.19	40
318	122	0.06	20
	152	0.08	20
	182	0.10	20
	213	0.12	30
	243	0.15	30
	274	0.17	40
	304	0.19	40
	355	0.23	50
328	122	0.03	10
	152	0.06	20
	182	0.09	20
	213	0.12	30
	243	0.17	40
	274	0.20	50
	304	0.24	50
	355	0.25	80
338	122	0.03	20
	152	0.06	20
	182	0.10	30
	213	0.15	40
	243	0.23	60
	274	0.28	70
	304	0.34	80
	355	0.51	110
348	122	0.02	10
	152	0.04	20
	182	0.09	30
	213	0.16	50
	243	0.25	70
	274	0.40	100
	304	0.52	130
	355	0.84	200

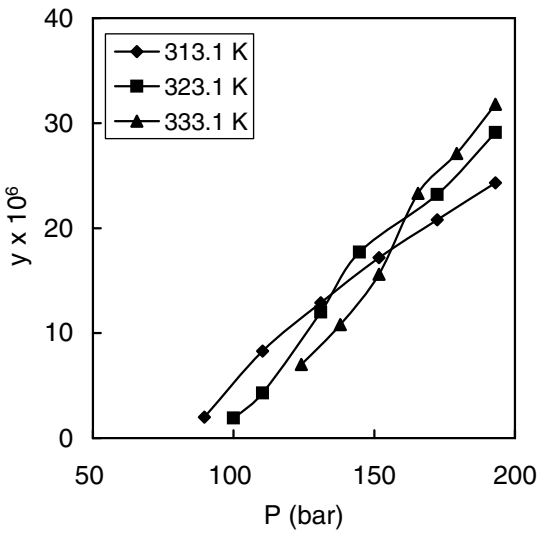


Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen

Source: Garmroodi, A.; Hassan, J.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(3), 709-712.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-56]**

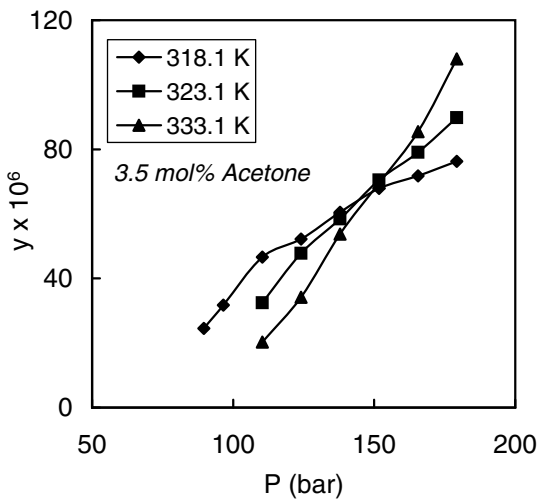
T (K)	P (bar)	y x 10^6
313.1	89.6	2.0
	110.3	8.3
	131.0	12.9
	151.7	17.2
	172.4	20.8
	193.1	24.3
323.1	100.0	1.9
	110.3	4.3
	131.0	12.0
	144.8	17.7
	172.4	23.2
	193.1	29.1
333.1	124.1	7.0
	137.9	10.8
	151.7	15.6
	165.5	23.3
	179.3	27.1
	193.1	31.8



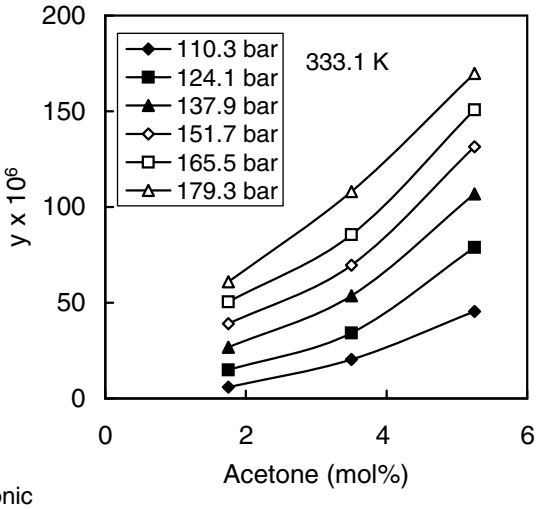
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-57]**

T (K)	P (bar)	Acetone[1)] (mol %)	y x 10^6
318.1	89.6	3.50	24.5
	96.5	3.50	31.7
	110.3	3.50	46.6
	124.1	3.50	52.2
	137.9	3.50	60.5
	151.7	3.50	67.9
	165.5	3.50	71.8
	179.3	3.50	76.3
323.1	110.3	3.50	32.5
	124.1	3.50	47.8
	137.9	3.50	58.4
	151.7	3.50	70.5
	165.5	3.50	79.1
	179.3	3.50	89.8
333.1	110.3	1.75	6.0
	124.1	1.75	14.9
	137.9	1.75	26.7
	151.7	1.75	39.1
	165.5	1.75	50.5



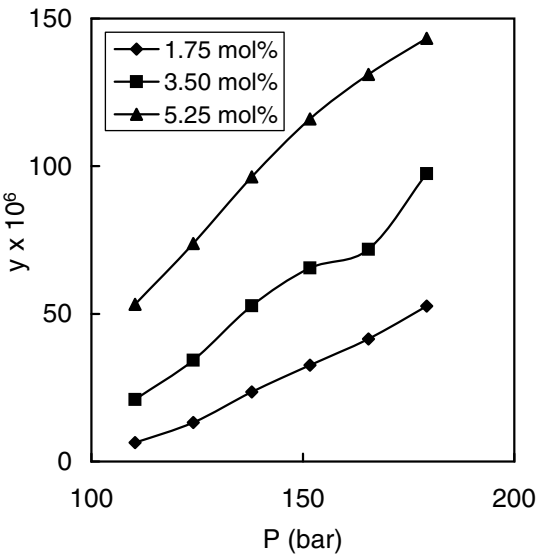
179.3	1.75	60.9
193.1	1.75	57.5
110.3	3.50	20.3
124.1	3.50	34.2
137.9	3.50	53.7
151.7	3.50	69.6
165.5	3.50	85.5
179.3	3.50	108.0
110.3	5.25	45.5
124.1	5.25	78.8
137.9	5.25	106.8
151.7	5.25	131.4
165.5	5.25	150.7
179.3	5.25	169.7



1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-58]**

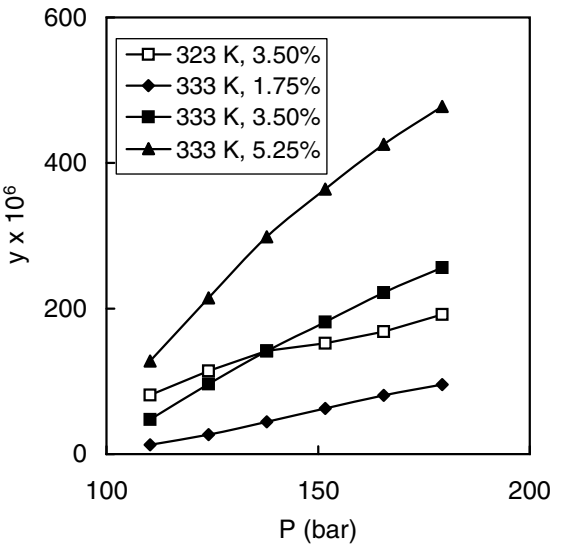
T (K)	P (bar)	Ethyl acetate[1)] (mol %)	y x 10^6
333.1	110.3	1.75	6.4
	124.1	1.75	13.2
	137.9	1.75	23.6
	151.7	1.75	32.6
	165.5	1.75	41.5
	179.3	1.75	52.6
	110.3	3.50	21.0
	124.1	3.50	34.3
	137.9	3.50	52.7
	151.7	3.50	65.5
	165.5	3.50	71.8
	179.3	3.50	97.5
	110.3	5.25	53.2
	124.1	5.25	73.8
	137.9	5.25	96.4
	151.7	5.25	116.0
	165.5	5.25	131.1
	179.3	5.25	143.3



1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-59]**

T (K)	P (bar)	Ethanol[1)] (mol %)	y x 10^6
323.1	110.3	3.50	81.3
	124.1	3.50	114.2
	137.9	3.50	142.1
	151.7	3.50	152.4
	165.5	3.50	168.2
	179.3	3.50	191.8
333.1	110.3	1.75	12.6
	124.1	1.75	26.9
	137.9	1.75	44.2
	151.7	1.75	62.6
	165.5	1.75	80.9
	179.3	1.75	95.5
	110.3	3.50	47.6
	124.1	3.50	96.2
	137.9	3.50	141.7
	151.7	3.50	181.6
	165.5	3.50	221.9
	179.3	3.50	256.1
	110.3	5.25	127.8
	124.1	5.25	214.7
	137.9	5.25	298.7
	151.7	5.25	364.3
	165.5	5.25	425.8
	179.3	5.25	477.8

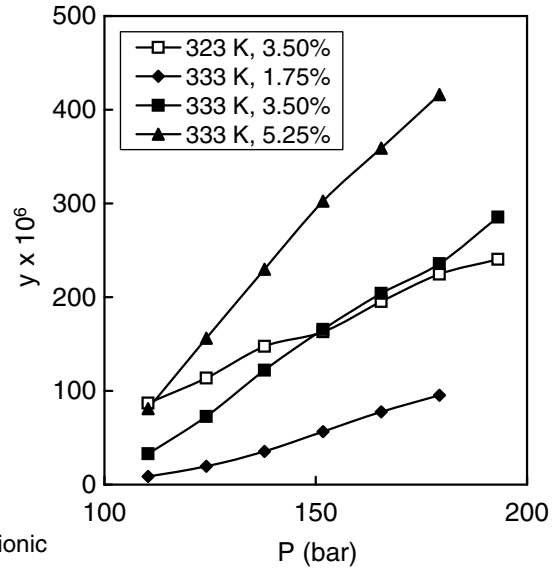


1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-60]**

T (K)	P (bar)	Methanol[1)] (mol %)	y x 10^6
323.1	110.3	3.50	86.9
	124.1	3.50	113.7
	137.9	3.50	147.5
	151.7	3.50	163.1
	165.5	3.50	195.2
	179.3	3.50	224.6
	193.1	3.50	240.5
333.1	110.3	1.75	8.7
	124.1	1.75	19.5
	137.9	1.75	35.3

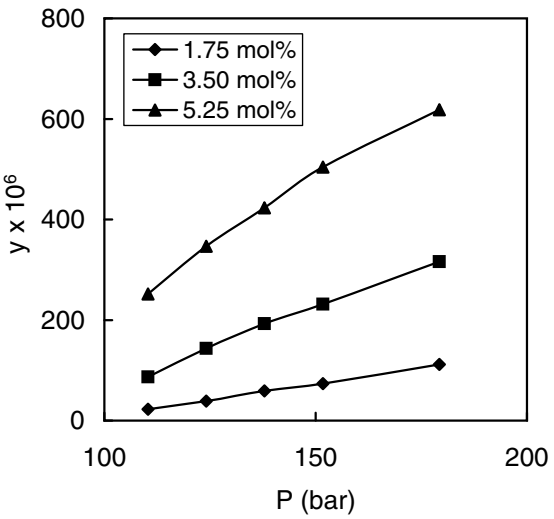
151.7	1.75	56.4
165.5	1.75	77.6
179.3	1.75	95.3
110.3	3.50	32.9
124.1	3.50	72.7
137.9	3.50	122.2
151.7	3.50	165.4
165.5	3.50	203.9
179.3	3.50	235.6
193.1	3.50	285.4
110.3	5.25	81.1
124.1	5.25	156.3
137.9	5.25	229.9
151.7	5.25	302.5
165.5	5.25	359.0
179.3	5.25	416.1



1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-61]**

T (K)	P (bar)	1-Propanol[1)] (mol%)	y x 10^6
333.1	110.3	1.75	22.3
	124.1	1.75	38.6
	137.9	1.75	58.8
	151.7	1.75	73.5
	179.3	1.75	112.0
	110.3	3.50	86.6
	124.1	3.50	143.4
	137.9	3.50	193.0
	151.7	3.50	231.8
	179.3	3.50	315.8
	110.3	5.25	251.7
	124.1	5.25	346.5
	137.9	5.25	423.4
	151.7	5.25	504.0
	179.3	5.25	618.2

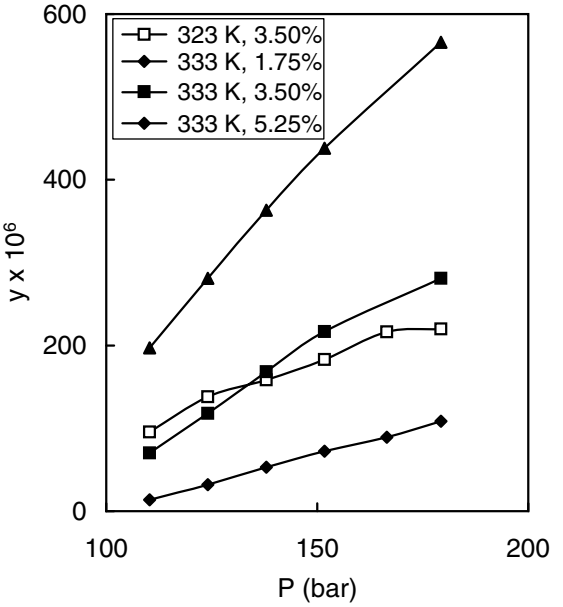


1: Cosolvent in CO_2 on a solute-free basis.
Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen
Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Naproxen ($C_{14}H_{14}O_3$; MW=230.26) **[N-62]**

T (K)	P (bar)	2-Propanol[1)] (mol%)	y x 10^6
323.1	110.3	3.50	95.4
	124.1	3.50	138.0
	137.9	3.50	158.5
	151.7	3.50	183.1
	166.5	3.50	216.4
	179.3	3.50	220.0
333.1	110.3	1.75	13.7
	124.1	1.75	32.0
	137.9	1.75	53.2
	151.7	1.75	72.2
	166.5	1.75	89.1
	179.3	1.75	108.4
	110.3	3.50	70.1
	124.1	3.50	118.0
	137.9	3.50	168.3
	151.7	3.50	216.7
	179.3	3.50	281.1
	110.3	5.25	197.1
	124.1	5.25	280.9
	137.9	5.25	363.3
	151.7	5.25	438.2
	179.3	5.25	566.0

1: Cosolvent in CO_2 on a solute-free basis.

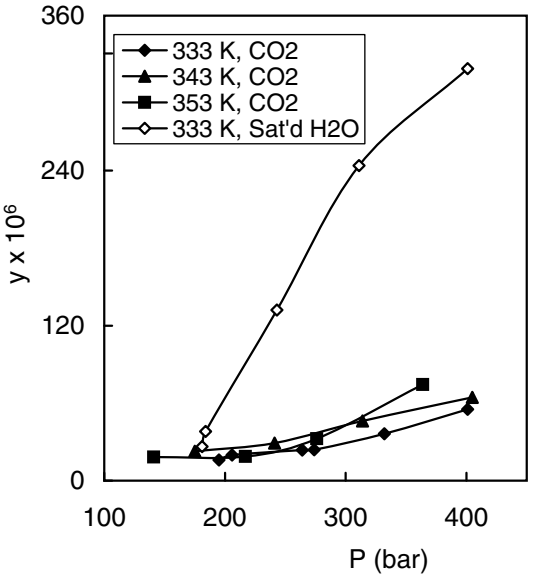


Synonyms: (*S*)-2-(6-Methoxy-2-naphthyl)propionic acid; (+)-Naproxen; (*S*)-(+)-Naproxen

Source: Ting, S. S. T.; Tomasko, D. L.; Foster, N. R.; Macnaughton, S. J. *Ind. Eng. Chem. Res.* (1993), 32(7), 1471-1481.

Narasin sodium salt ($C_{43}H_{71}NaO_{11}$; FW= 787.02) **[N-63]**

T (K)	P (bar)	Water[1)]	y x 10^6
333.15	195	0	15.9
	206	0	19.8
	264	0	23.6
	274	0	23.9
	332	0	36.2
	401	0	55.3
343.15	175	0	22.7
	241	0	29.1
	314	0	46.2
	405	0	64.4
353.15	141	0	18.2
	217	0	18.7
	276	0	32.4
	364	0	74.3

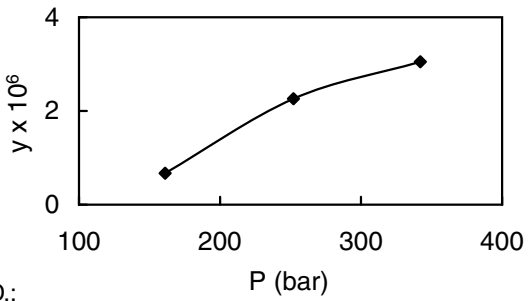


333.15	181	Saturated	26.3
	184	Saturated	38.2
	243	Saturated	132.0
	311	Saturated	244.0
	401	Saturated	319.0

1: Cosolvent in CO_2.
Synonym: (4 *S*)-4-Methylsalinomycin monosodium salt
Source: Maxwell, R.; Hampson, J.; Cygnarowicz-Provost, M. *J. Supercrit. Fluids* (1992), 5(1), 31-37.

Nickel complex[1)] ($C_{22}H_{22}N_4Ni$; FW=401.15) **[N-64]**

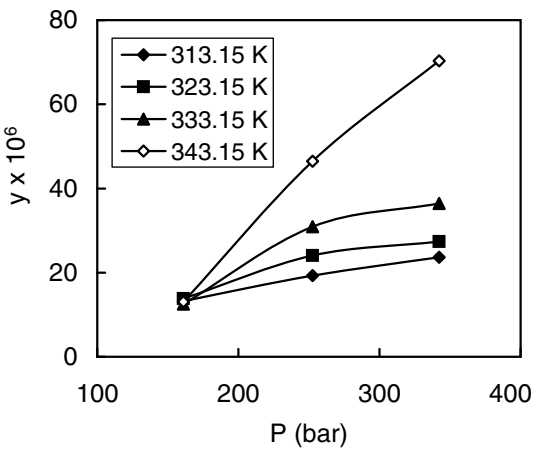
T (K)	P (bar)	Ethanol[2)] (wt%)	y x 10^6
333	161	10	0.67
	252	10	2.26
	342	10	3.05



1: The exact name of this compound is (5,7,12,14-Tetramethyl-2,3:9,10-dibenzo [*b,i*][1,4,8,11]tetraazacyclotetradecine) nickel(II).
2 : Cosolvent in CO_2.
Source: Burford, M. D.; Clifford, A. A.; Bartle, K. D.; Cowey, C. M.; Smart, N. G. *J. Chromatogr., A* (1996), 738(2), 241-252.

Nickel complex[1)] ($C_{22}H_{22}N_4Ni$; FW=401.15) **[N-65]**

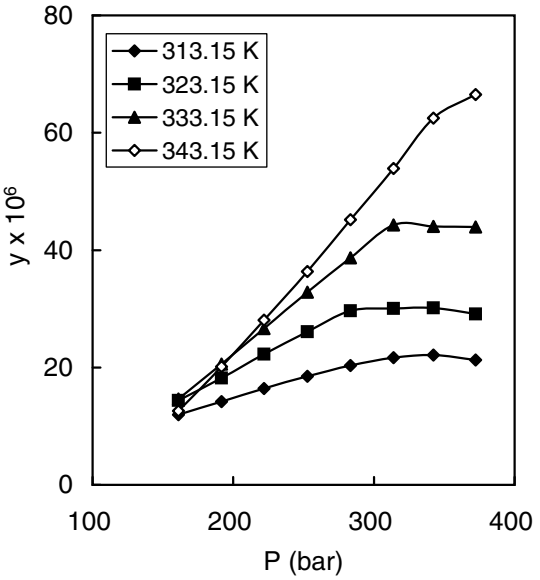
T (K)	P (bar)	Methanol[2)] (vol%)	y[3)] x 10^6
313.15	161.1	10	13.2
	252.6	10	19.3
	342.3	10	23.6
323.15	161.1	10	13.8
	252.6	10	24.0
	342.3	10	27.4
333.15	161.1	10	12.5
	252.6	10	30.9
	342.3	10	36.5
343.15	161.1	10	13.1
	252.6	10	46.5
	342.3	10	70.3



1: The exact name of this compound is (5,7,12,14-Tetramethyl-2,3:9,10-dibenzo [*b,i*][1,4,8,11]tetraazacyclotetradecine) nickel(II).
2 : Cosolvent in CO_2.
3: The solubility was measured directly by an SFE system.
Source: Cowey, C. M.; Bartle, K. D.; Burford, M. D.; Clifford, A. A.; Zhu, S.; Smart, N. G.; Tinker, N. D. *J. Chem. Eng. Data* (1995), 40(6), 1217-1221.

Nickel complex[1] ($C_{22}H_{22}N_4Ni$; FW=401.15) **[N-66]**

T (K)	P (bar)	Methanol[2] (vol%)	y[3] x 10^6
313.15	161.1	10	12.0
	191.6	10	14.2
	221.9	10	16.4
	252.6	10	18.5
	283.3	10	20.3
	314.0	10	21.7
	342.3	10	22.1
	372.3	10	21.3
323.15	161.1	10	14.4
	191.6	10	18.2
	221.9	10	22.3
	252.6	10	26.1
	283.3	10	29.7
	314.0	10	30.0
	342.3	10	30.2
	372.3	10	29.1
333.15	161.1	10	14.6
	191.6	10	20.6
	221.9	10	26.6
	252.6	10	32.8
	283.3	10	38.7
	314.0	10	44.3
	342.3	10	44.0
	372.3	10	44.0
343.15	161.1	10	12.6
	191.6	10	20.1
	221.9	10	28.1
	252.6	10	36.3
	283.3	10	45.2
	314.0	10	53.9
	342.3	10	62.5
	372.3	10	66.5



1: The exact name is (5,7,12,14-tetramethyl-2,3:9,10-dibenzo-[*b*,*i*][1,4,8,11]tetraazacyclotetradecine)nickel(II).

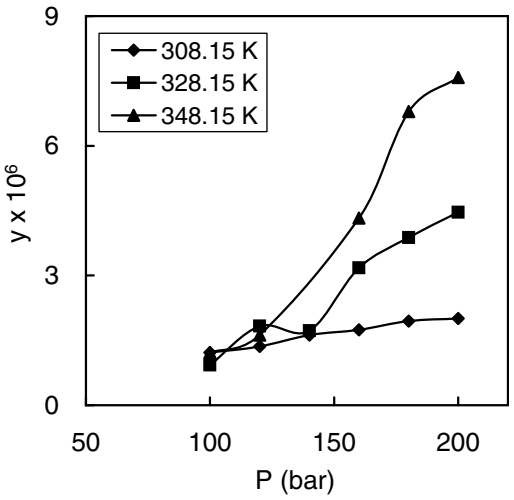
2 : Cosolvent in CO_2.

3 : The solubility was measured by supercritical fluid chromatography. (Compare with the SFE method above).

Source: Cowey, C. M.; Bartle, K. D.; Burford, M. D.; Clifford, A. A.; Zhu, S.; Smart, N. G.; Tinker, N. D. *J. Chem. Eng. Data* (1995), 40(6), 1217-1221.

Nicotinic acid ($C_6H_5NO_2$; MW=123.11) **[N-67]**

T (K)	P (bar)	y x 10^6
308.15	100	1.22
	120	1.36
	140	1.63
	160	1.74
	180	1.95
	200	2.00
328.15	100	0.93
	120	1.83
	140	1.73
	160	3.18
	180	3.88
	200	4.46
348.15	100	1.22
	120	1.63
	160	4.33
	180	6.79
	200	7.58

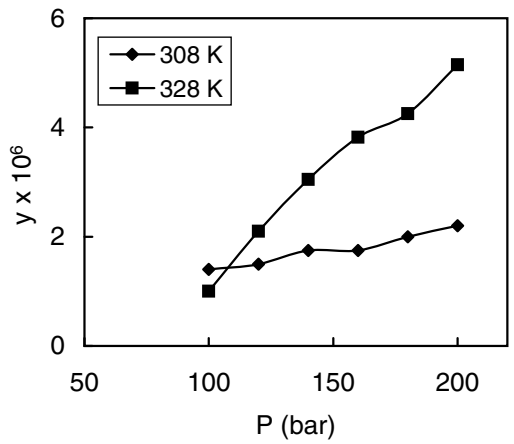


Synonyms: 3-Carboxypyridine; 3-Pyridinecarboxylic acid

Source: Jouyban, A.; Rehman, M.; Shekunov, B. Y.; Chan, H.-K.; Clark, B. J.; York, P. *J. Pharmac. Sci.* (2002), 91(5), 1287-1295.

Nicotinic acid ($C_6H_5NO_2$; MW=123.11) **[N-68]**

T (K)	P[1)] (bar)	y[1)] x 10^6
308	100	1.40
	120	1.50
	140	1.75
	160	1.75
	180	2.00
	200	2.20
328	100	1.00
	120	2.10
	140	3.05
	160	3.82
	180	4.25
	200	5.15



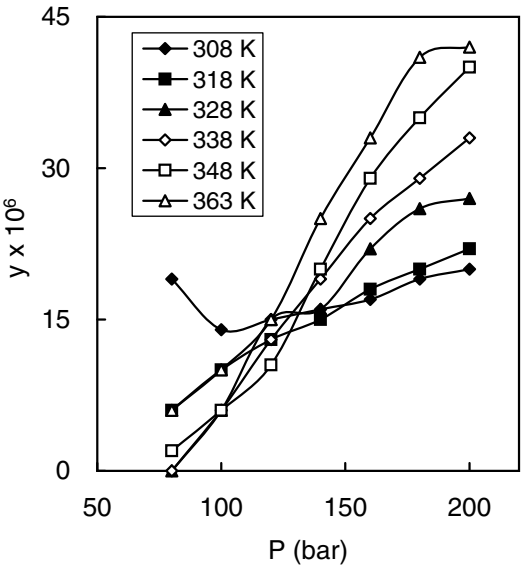
1: Obtained by digitizing the graph in the original article.

Synonyms: 3-Carboxypyridine; 3-Pyridinecarboxylic acid

Source: Rehman, M.; Shekunov, B. Y.; York, P.; Colthorpe, P. *J. Pharm. Sci.* (2001), 90(10), 1570-1582.

Nicotinic acid ($C_6H_5NO_2$; MW=123.11) **[N-69]**

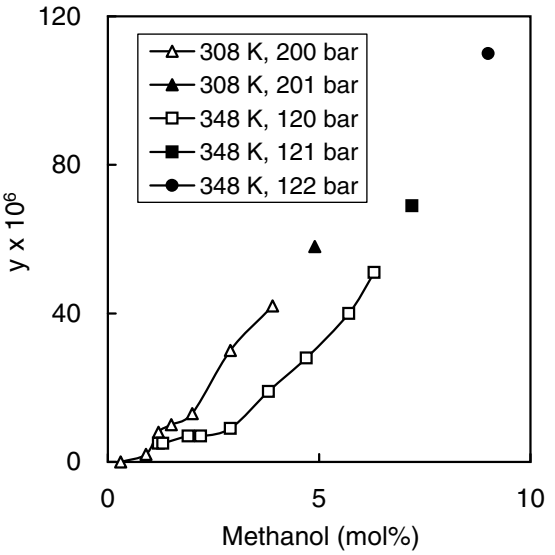
T (K)	P[1] (bar)	Methanol[2] (mol %)	y[1] x 10^6
308	80	2	19
	100	2	14
	120	2	15
	140	2	16
	160	2	17
	180	2	19
	200	2	20
318	80	2	6
	100	2	10
	120	2	13
	140	2	15
	160	2	18
	180	2	20
	200	2	22
328	80	2	0
	100	2	6
	120	2	15
	140	2	16
	160	2	22
	180	2	26
	200	2	27
338	80	2	0
	100	2	6
	120	2	13
	140	2	19
	160	2	25
	180	2	29
	200	2	33
348	80	2	2
	100	2	6
	120	2	11
	140	2	20
	160	2	29
	180	2	35
	200	2	40
363	80	2	6
	100	2	10
	120	2	15
	140	2	25
	160	2	33
	180	2	41
	200	2	42



1: Obtained by digitizing the graph in the original article.
2 : Cosolvent in CO_2.
Synonyms: 3-Carboxypyridine; 3-Pyridinecarboxylic acid
Source: Rehman, M.; Shekunov, B. Y.; York, P.; Colthorpe, P. *J. Pharm. Sci.* (2001), 90(10), 1570-1582.

Nicotinic acid ($C_6H_5NO_2$; MW=123.11) **[N-70]**

T (K)	P[1] (bar)	Methanol[2] (mol %)	y[1] x 10^6
308	200	0.3	0
		0.9	2
		1.2	8
		1.5	10
		2.0	13
		2.9	30
		3.9	42
	201	4.9	58
348	120	1.2	5
		1.3	5
		1.9	7
		2.2	7
		2.9	9
		3.8	19
		4.7	28
		5.7	40
		6.3	51
	121	7.2	69
	122	9.0	110



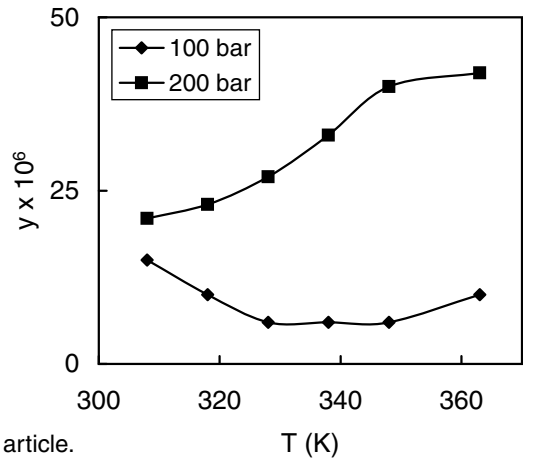
1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2.

Synonyms: 3-Carboxypyridine; 3-Pyridinecarboxylic acid

Source: Rehman, M.; Shekunov, B. Y.; York, P.; Colthorpe, P. *J. Pharm. Sci.* (2001), 90(10), 1570-1582.

Nicotinic acid ($C_6H_5NO_2$; MW=123.11) **[N-71]**

T (K)	P[1] (bar)	Methanol[2] (mol %)	y[1] x 10^6
100	308	2	15
	318	2	10
	328	2	6
	338	2	6
	348	2	6
	363	2	10
200	308	2	21
	318	2	23
	328	2	27
	338	2	33
	348	2	40
	363	2	42



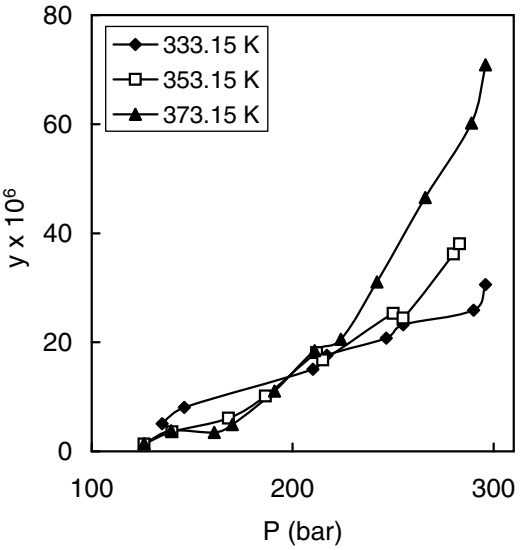
1: Obtained by digitizing the graph in the original article.
2: Cosolvent in CO_2.

Synonyms: 3-Carboxypyridine; 3-Pyridinecarboxylic acid

Source: Rehman, M.; Shekunov, B. Y.; York, P.; Colthorpe, P. *J. Pharm. Sci.* (2001), 90(10), 1570-1582.

Nifedipine ($C_{17}H_{18}N_2O_6$; MW=346.33) **[N-72]**

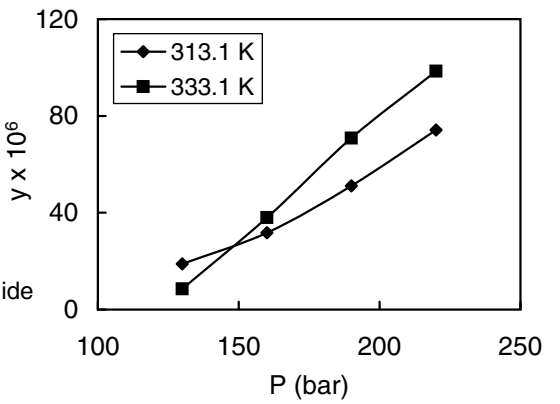
T (K)	P (bar)	y x 10^6
333.15	135	5.08
	146	8.08
	210	15.06
	217	17.61
	247	20.75
	255	23.24
	290	25.91
	296	30.59
353.15	126	1.35
	140	3.55
	168	6.11
	187	10.14
	212	18.11
	215	16.78
	250	25.32
	255	24.42
	280	36.16
	283	38.03
373.15	126	1.43
	140	3.79
	161	3.49
	170	4.9
	191	11.04
	211	18.46
	224	20.57
	242	31.05
	266	46.53
	289	60.22
	296	70.87



Synonym: 4-(2-Nitrophenyl)-2,6-dimethyl-3,5-dicarbomethoxy-1,4-dihydropyridine
Source: Knez, Z.; Skerget, M.; Sencar-Bozic, P.; Rizner, A. *J. Chem. Eng. Data* (1995), 40(1), 216-220.

Nimesulide ($C_{13}H_{12}N_2O_5S$; MW=308.31) **[N-73]**

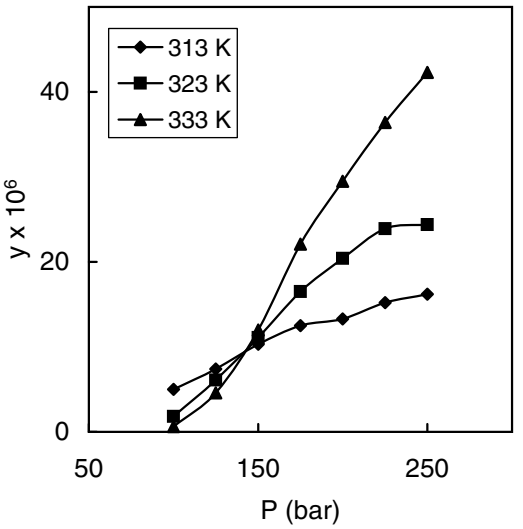
T (K)	P (bar)	y x 10^6
313.1	130	18.9
	160	31.8
	190	51.1
	220	74.2
333.1	130	8.5
	160	38.0
	190	70.8
	220	98.5



Synonym: 4-Nitro-2-phenoxymethanesulfonanilide
Source: Macnaughton, S. J.; Kikic, I.; Foster, N. R.; Alessi, P.; Cortesi, A.; Colombo, I. *J. Chem. Eng. Data* (1996), 41(5), 1083-1086.

Nimodipine ($C_{21}H_{26}N_2O_7$; MW=418.44) **[N-74]**

T (K)	P (bar)	S x10^6(g/L)	y x 10^6
313	100	31.1	5.0
	125	53.5	7.4
	150	79.3	10.3
	175	100.5	12.5
	200	110.1	13.3
	225	129.1	15.2
	250	140.3	16.2
323	100	7.1	1.8
	125	37.3	6.1
	150	76.8	11.1
	175	121.8	16.5
	200	157.6	20.4
	225	191.2	23.9
	250	200.5	24.4
333	100	1.7	0.6
	125	22.3	4.6
	150	71.9	12.0
	175	147.9	22.1
	200	211.0	29.5
	225	271.8	36.4
	250	328.0	42.3



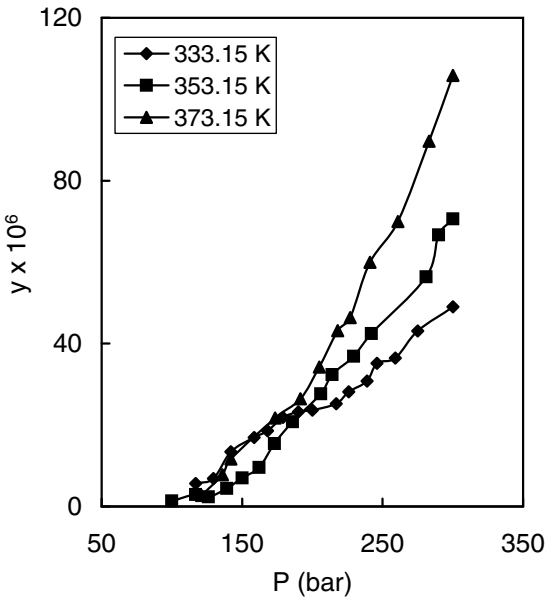
Synonym: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methoxyethyl 1-methylethyl ester

Source: Medina, I.; Bueno, J. L. *J. Chem. Eng. Data* (2001), 46(5), 1211-1214.

Nitrendipine ($C_{18}H_{20}N_2O_6$; MW=360.36) **[N-75]**

T (K)	P (bar)	y x 10^6
333.15	117	5.66
	130	6.86
	142	13.41
	159	16.93
	168	18.55
	179	21.90
	190	23.25
	200	23.67
	217	25.24
	226	28.15
	239	30.77
	246	35.17
	259	36.42
	275	43.09
	300	49.03
353.15	100	1.34
	117	2.91
	126	2.37
	139	4.40

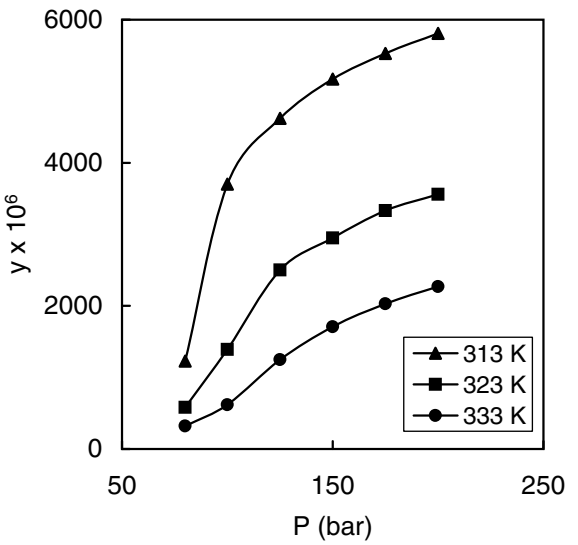
	150	7.00
	162	9.60
	173	15.45
	186	20.78
	206	27.69
	214	32.36
	230	36.89
	242	42.45
	281	56.40
	290	66.66
	300	70.63
373.15	121	2.69
	136	7.82
	142	11.63
	174	21.73
	192	26.48
	205	34.21
	218	43.16
	227	46.41
	241	59.95
	261	69.95
	283	89.70
	300	105.86



Synonym: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid ethyl methyl ester
Source: Knez, Z.; Skerget, M.; Sencar-Bozic, P.; Rizner, A. *J. Chem. Eng. Data* (1995), 40(1), 216-220.

2-Nitroanisole ($C_7H_7NO_3$; MW=153.14) **[N-76]**

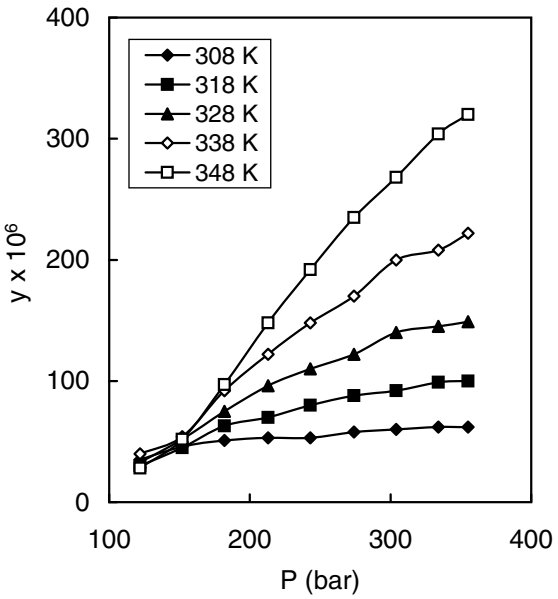
T (K)	P (bar)	S (g/L)	y x 10^6
313	80	1.31	1230
	100	8.17	3700
	125	11.88	4620
	150	14.15	5170
	175	15.80	5530
	200	17.12	5810
323	80	0.47	580
	100	2.05	1390
	125	5.42	2500
	150	7.24	2950
	175	8.76	3330
	200	9.78	3560
333	80	0.22	320
	100	0.66	620
	125	2.14	1250
	150	3.63	1710
	175	4.81	2030
	200	5.75	2270



Synonym: 2-Methoxynitrobenzene
Source: Medina, L.; Bueno, J. L. *J. Chem. Eng. Data* (2000), 45(2), 298-300.

9-Nitroanthracene ($C_{14}H_9NO_2$; MW=223.23) **[N-77]**

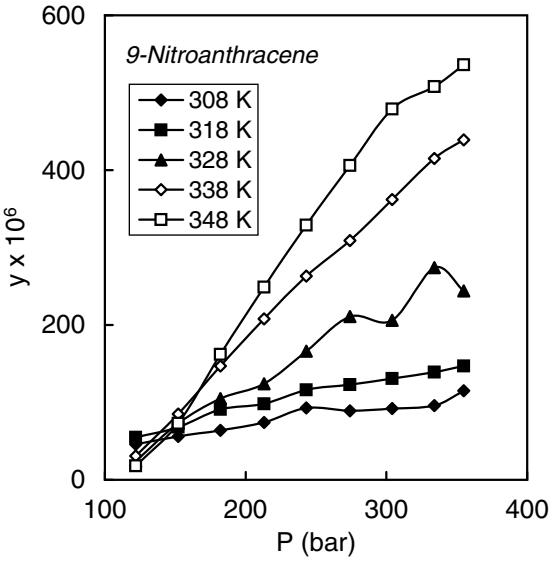
T (K)	P (bar)	y x 10^6
308	122	35
	152	46
	182	51
	213	53
	243	53
	274	58
	304	60
	334	62
	355	62
318	122	30
	152	45
	182	63
	213	70
	243	80
	274	88
	304	92
	334	99
	355	100
328	122	33
	152	52
	182	75
	213	96
	243	110
	274	122
	304	140
	334	145
	355	149
338	122	40
	152	54
	182	92
	213	122
	243	148
	274	170
	304	200
	334	208
	355	222
348	122	28
	152	52
	182	97
	213	148
	243	192
	274	235
	304	268
	334	304
	355	320

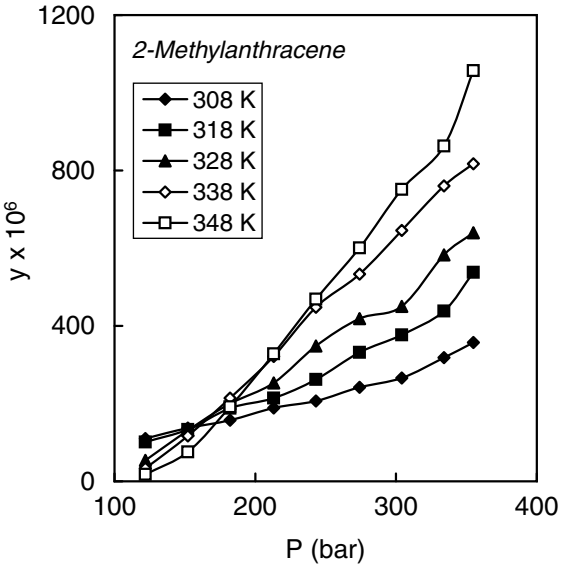


Source: Yamini, Y.; Bahramifar, N.; Hassan, J.
J. Chem. Eng. Data (2002), 47(2), 329-332.

9-Nitroanthracene (1) + 2-Methyl anthracene (2) Mixture[1)] **[N-78]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	122	46	110
	152	56	137
	182	64	157
	213	74	189
	243	93	207
	274	89	242
	304	92	266
	334	96	318
	355	115	357
318	122	55	101
	152	68	133
	182	91	188
	213	98	214
	243	116	262
	274	123	332
	304	131	377
	334	139	438
	355	147	538
328	122	24	54
	152	73	131
	182	105	200
	213	124	253
	243	166	348
	274	211	419
	304	206	450
	334	274	583
	355	244	640
338	122	31	34
	152	85	117
	182	147	214
	213	208	321
	243	263	448
	274	309	533
	304	362	646
	334	415	760
	355	439	817
348	122	18	18
	152	73	76
	182	162	192
	213	249	328
	243	329	469
	274	406	601
	304	479	751
	334	508	863
	355	536	1057





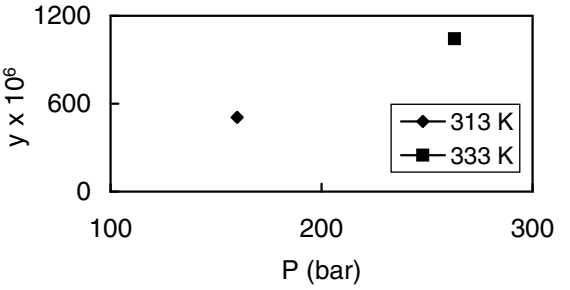
1: Solubility was measured from an equimolar mixture of 1 and 2.

Source: Yamini, Y.; Bahramifar, N.; Hassan, J. *J. Chem. Eng. Data* (2002), 47(2), 329-332.

2-Nitrodiphenylamine ($C_{12}H_{10}N_2O_2$; MW=214. 22) **[N-79]**

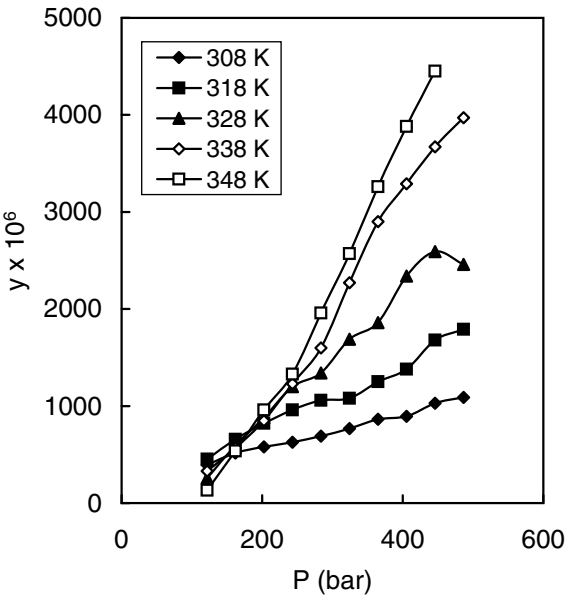
T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	160	1.97	507
333.15	263	4.07	1042

1: Calculated form S.
Synonym: 2-Nitro-*N*-phenylaniline
Source: Ashraf-Khorassani, M.; Taylor, L. T. *J. Chem. Eng. Data* (1999), 44(6), 1254-1258.



***m*-Nitrophenol** ($C_6H_5NO_3$; MW=139.11) **[N-80]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	0.96	394
	162.1	1.36	517
	202.6	1.59	579
	243.2	1.78	627
	283.7	2.02	691
	324.2	2.29	768
	364.8	2.63	865
	405.3	2.76	895
	445.8	3.22	1030
	486.4	3.47	1090
318	121.6	0.96	454
	162.1	1.59	657
	202.6	2.12	823
	243.2	2.59	960
	283.7	2.94	1060
	324.2	3.08	1080
	364.8	3.66	1250
	405.3	4.13	1380
	445.8	5.09	1680
	486.4	5.50	1790
328	121.6	0.43	259
	162.1	1.29	594
	202.6	2.11	879
	243.2	3.07	1200
	283.7	3.55	1340
	324.2	4.55	1690
	364.8	5.24	1860
	405.3	6.74	2340
	445.8	7.59	2590
	486.4	7.35	2460
338	121.6	0.41	329
	162.1	1.08	568

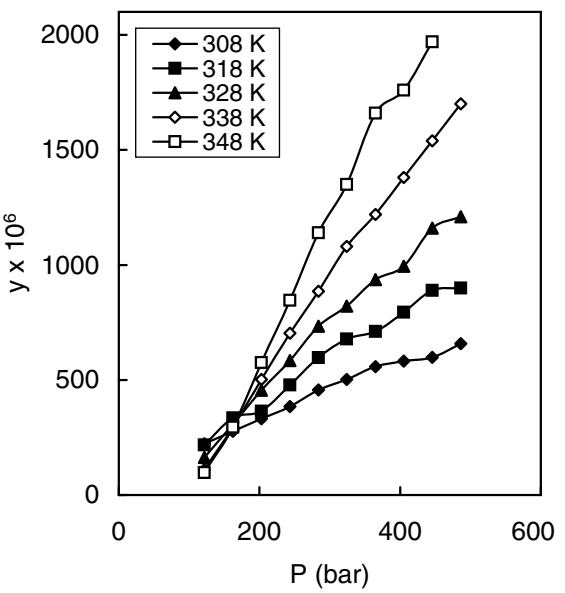


	202.6	1.87	850
	243.2	2.94	1230
	283.7	4.04	1600
	324.2	5.95	2270
	364.8	7.84	2900
	405.3	9.11	3290
	445.8	10.40	3670
	486.4	11.45	3970
348	121.6	0.14	132
	162.1	0.88	536
	202.6	1.91	959
	243.2	2.95	1330
	283.7	4.65	1960
	324.2	6.41	2570
	364.8	8.44	3260
	405.3	10.33	3880
	445.8	12.15	4450

Synonym: 3-Nitrophenol
Source: Shamsipur, M.; Fat'hi, M. R.; Yamini, Y.; Ghiasvand, A. R. *J. Supercrit. Fluids* (2002), 23(3), 225-231.

***p*-Nitrophenol** ($C_6H_5NO_3$; MW=139.11) **[N-81]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121.6	0.54	223
	162.1	0.73	277
	202.6	0.91	331
	243.2	1.09	385
	283.7	1.33	457
	324.2	1.50	502
	364.8	1.69	558
	405.3	1.80	582
	445.8	1.87	598
	486.4	2.09	658
318	121.6	0.46	217
	162.1	0.81	335
	202.6	0.94	364
	243.2	1.29	478
	283.7	1.66	597
	324.2	1.94	678
	364.8	2.08	711
	405.3	2.38	795
	445.8	2.69	889
	486.4	2.76	899
328	121.6	0.27	163
	162.1	0.66	307
	202.6	1.09	455
	243.2	1.49	584
	283.7	1.95	734
	324.2	2.25	821
	364.8	2.63	936

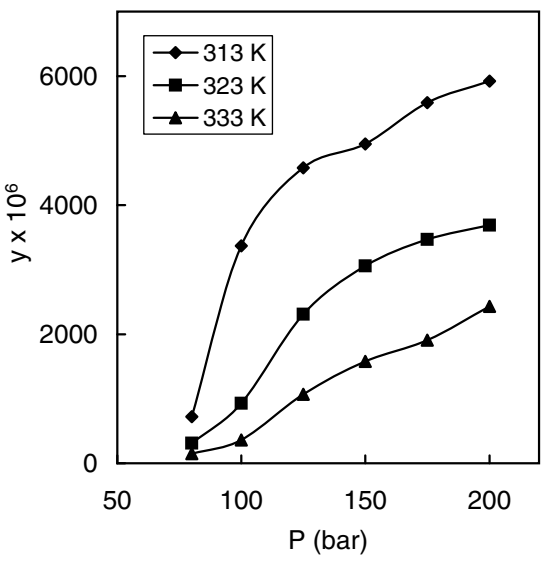


	405.3	2.86	994
	445.8	3.41	1160
	486.4	3.62	1210
338	121.6	0.14	110
	162.1	0.56	296
	202.6	1.10	502
	243.2	1.68	703
	283.7	2.23	886
	324.2	2.83	1080
	364.8	3.30	1220
	405.3	3.83	1380
	445.8	4.35	1540
	486.4	4.90	1700
348	121.6	0.10	98
	162.1	0.48	295
	202.6	1.15	576
	243.2	1.88	846
	283.7	2.70	1140
	324.2	3.36	1350
	364.8	4.30	1660
	405.3	4.69	1760
	445.8	5.39	1970

Synonym: 4-Nitrophenol
Source: Shamsipur, M.; Fat'hi, M. R.; Yamini, Y.; Ghiasvand, A. R. *J. Supercrit. Fluids* (2002), 23(3), 225-231.

3-Nitrotoluene ($C_7H_7NO_2$; MW=137.14) **[N-82]**

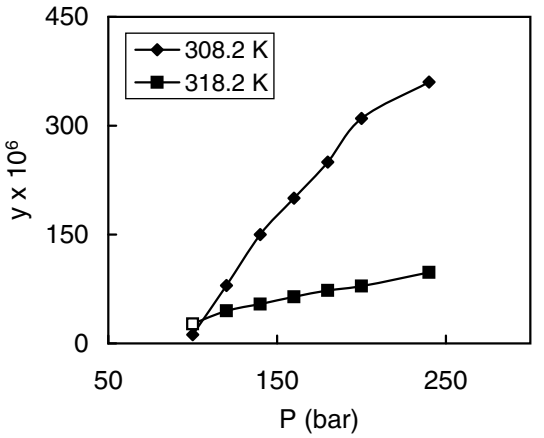
T (K)	P (bar)	y x 10^6
313	80	720
	100	3370
	125	4580
	150	4950
	175	5590
	200	5920
323	80	310
	100	930
	125	2310
	150	3060
	175	3470
	200	3690
333	80	150
	100	360
	125	1070
	150	1580
	175	1910
	200	2430



Synonym: 1-Methyl-3-nitrobenzene
Source: Medina, I.; Bueno, J. L. *Fluid Phase Equil.* (2001), 187-188, 337-345.

Nonacosane ($C_{29}H_{60}$; MW=408.79) **[N-83]**

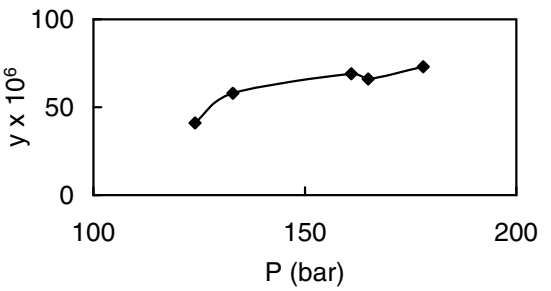
T (K)	P (bar)	$y^{1)} \times 10^6$
308.2	100	12
	120	80
	140	150
	160	200
	180	250
	200	310
	240	360
318.2	100	*27*
	120	45
	140	54
	160	64
	180	73
	200	79
	240	98



1: The datum at 318.2 K and 100 bar (in italics) is the extrapolated value in the original article.
Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Nonacosane ($C_{29}H_{60}$; MW=408.79) **[N-84]**

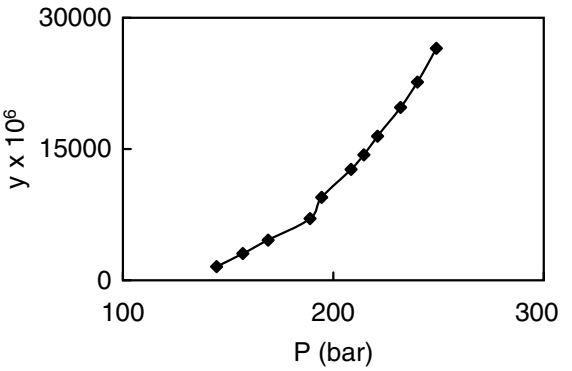
T (K)	P (bar)	$y \times 10^6$
313	124	41
	133	58
	161	69
	165	66
	178	73



Source: Furuya, T.; Teja, A. S. *J. Supercrit. Fluids* (2004), 29(3), 231-236.

Nonadecane ($C_{19}H_{40}$; MW=268.53) **[N-85]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
343	144.5	4.6	1551
	157.0	10.1	3048
	169.0	16.5	4606
	189.0	27.7	7055
	194.5	38.0	9472
	208.5	53.2	12680
	214.5	61.1	14320
	221.0	71.4	16450
	232.0	88.0	19740
	240.0	102.8	22650
	249.0	122.7	26510

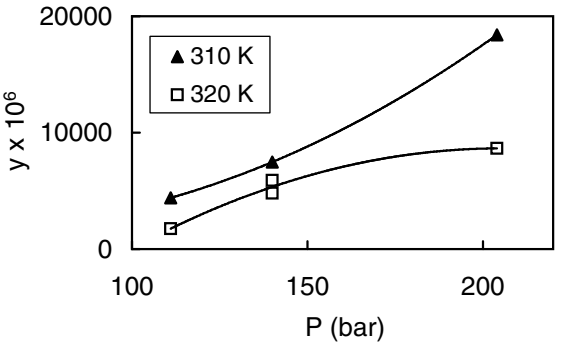


1: Calculated from S.
Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.

Nonadecane ($C_{19}H_{40}$; MW=268.53) **[N-86]**

T (K)	P (bar)	y x 10^6
310	111.0	4400
	140.0	7480
	204.0	18400
320	111.0	1750
	140.0	4800
	140.0	5890
	204.0	8650

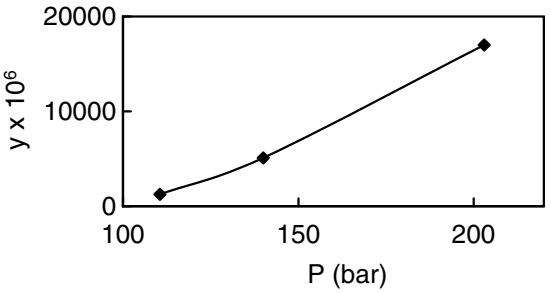
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Nonadecanenitrile ($C_{19}H_{37}N$; MW=279.50) **[N-87]**

T (K)	P (bar)	y[1)] x 10^6
320	110.5	1260
	140.0	5080
	203.0	17000

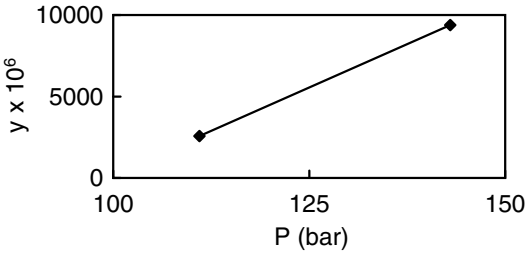
1: These values may need corrections as the incorrect chemical formula [$(C_{19}H_{39})$CN] and molecular weight [293.54] were used in the source table.
Synonyms: Octadecyl cyanide; 1-Cyanooctadecane
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



2-Nonadecanone ($C_{19}H_{38}O$; MW=282.50) **[N-88]**

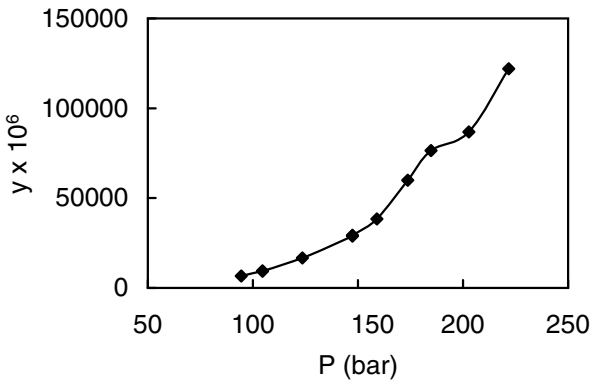
T (K)	P (bar)	y x 10^6
320	111.0	2570
	143.0	9380

Synonym: Heptadecyl methyl ketone
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



1-Nonanol ($C_9H_{20}O$; MW=144.25) **[N-89]**

T (K)	P (bar)	y x 10^6
323.15	94.5	6564
	104.6	9435
	104.6	9435
	123.6	16630
	147.3	28870
	147.3	29300
	159.0	38420
	173.7	60000
	184.7	76440
	202.8	86770
	221.7	122000

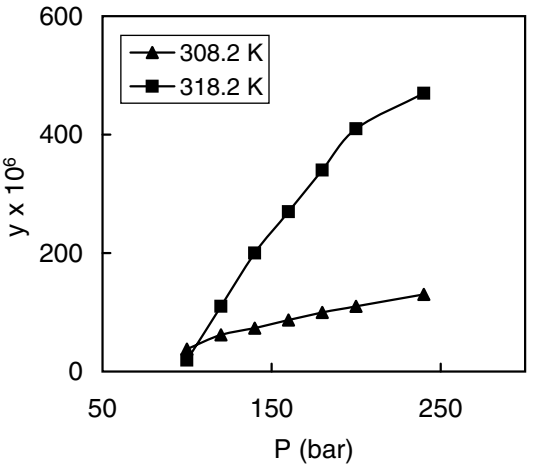


Synonym: Nonyl alcohol
Source: Artal, M.; Pauchon, V.; Embid, J. M.; Jose, J. *J. Chem. Eng. Data* (1998), 43(6), 983-985.

15 Solubility Data O

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-1]**

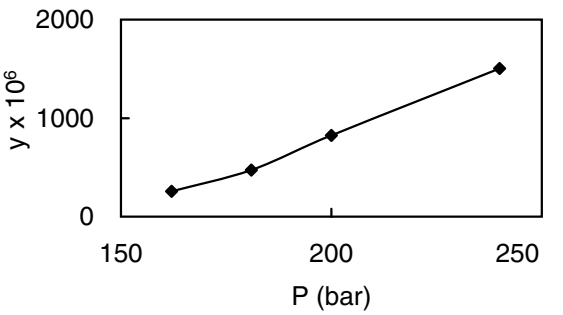
T (K)	P (bar)	y[1)] x 10^6
308.2	100	38
	120	62
	140	73
	160	87
	180	100
	200	110
	240	130
318.2	100	*19*
	120	110
	140	200
	160	270
	180	340
	200	410
	240	470



1: The datum at 318.2 K and 100 bar is the extrapolated value in the original article.
Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-2]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
343	162.0	1.29	257
	181.0	2.62	471
	200.0	4.91	825
	240.0	9.82	1504

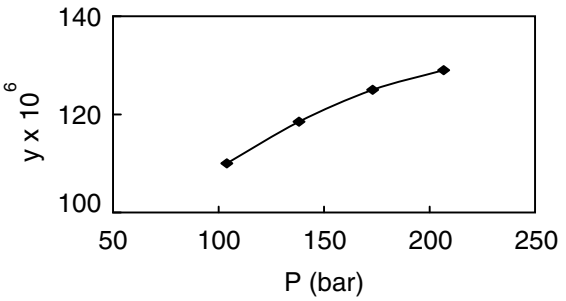


1: Calculated from S.
Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-3]**

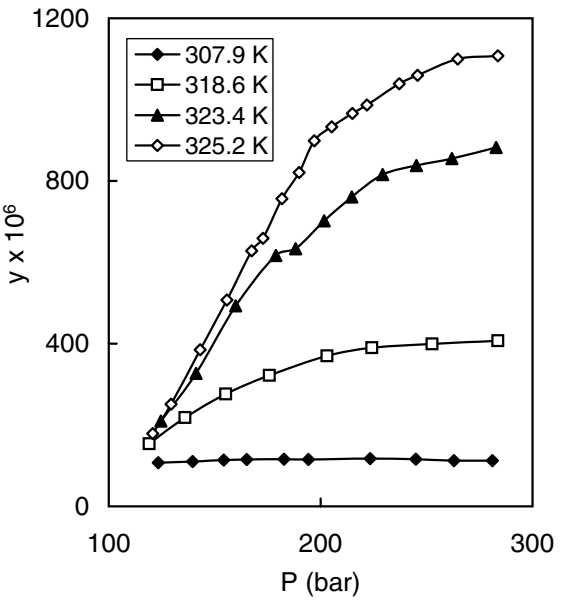
T (K)	P (bar)	y[1)] x 10^6
308.2	103.9	110.0
	138.2	118.5
	173.0	125.0
	206.7	129.0

1: The order of magnitude(10^3) of the solubility in the source table was corrected to 10^5 based on Figure 4 in the same article.
Source: Kalaga, A.; Trebble, M. *J. Chem. Eng. Data* (1999), 44(5), 1063-1066.



Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-4]**

T (K)	P (bar)	y[1)] x 10^6
307.85	123.4	107
	139.5	110
	154.2	114
	165.1	115
	182.7	116
	194.2	115
	223.3	117
	244.9	116
	262.9	112
	281.1	112
318.55	119.1	154
	136.0	218
	155.2	276
	175.8	322
	203.0	370
	224.1	390
	252.6	399
	283.6	407
323.35	124.5	210
	141.1	327
	159.9	493
	178.8	617
	188.2	633
	201.6	702
	214.7	761
	229.3	816
	245.2	838
	261.9	855
	282.8	882
325.15	120.8	179
	129.4	251
	143.2	385
	155.7	507
	167.5	628

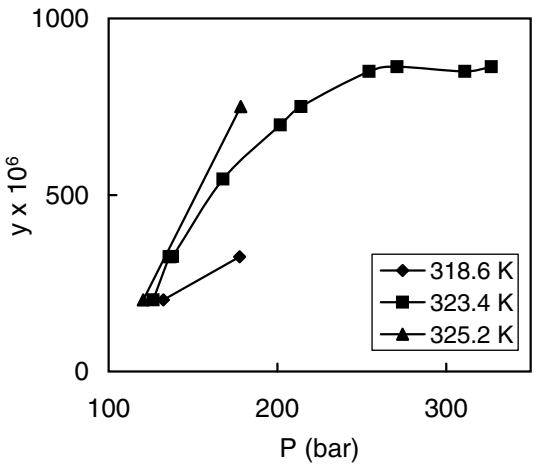


172.9	659
181.8	756
189.9	821
197.0	899
205.2	933
214.9	966
221.9	987
237.1	1039
245.7	1060
264.7	1100
283.6	1108

1: Data measured by flow method.
Source: McHugh, M. A.; Seckner, A. J.; Yogan, T. J. *Ind. Eng. Chem. Fund.* (1984), 23(4), 493-499.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-5]**

T (K)	P (bar)	$y^{1)} \times 10^6$
318.55	132.3	203
	177.5	325
323.35	126.4	203
	135.9	325
	136.5	325
	138.0	326
	167.8	545
	201.7	698
	213.9	750
	254.3	850
	270.8	863
	311.0	850
	326.7	863
325.15	120.6	203
	178.2	750

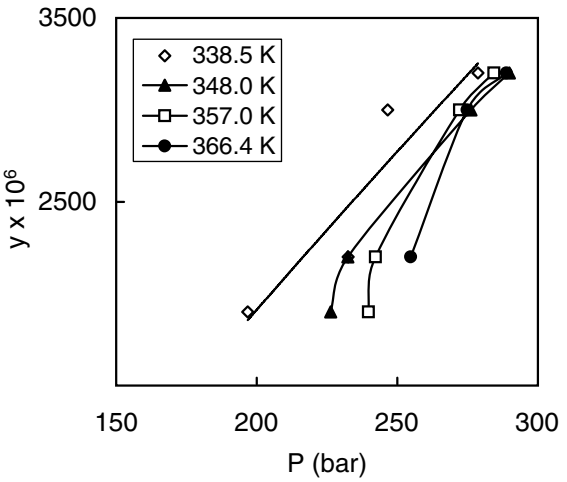


1: Data measured in a view cell apparatus.
Source: McHugh, M. A.; Seckner, A. J.; Yogan, T. J. *Ind. Eng. Chem. Fund.* (1984), 23(4), 493-499.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-6]**

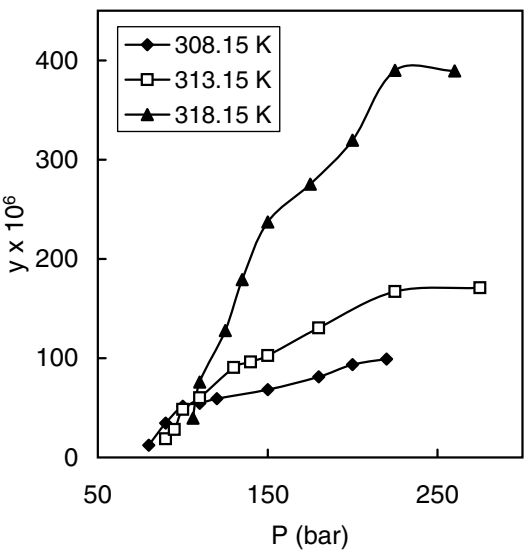
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
338.5	196.8	17000	1900
	232.5	19000	2200
	246.6	26000	3000
	278.7	28000	3200
348.0	226.3	17000	1900
	232.4	19000	2200
	276.2	26000	3000
	289.9	28000	3200
357.0	239.8	17000	1900
	242.2	19000	2200
	272.2	26000	3000
	284.4	28000	3200
366.4	254.8	19000	2200
	274.8	26000	3000
	288.8	28000	3200

1: Calculated from w.
Source: Nieuwoudt, I.; du Rand, M. *J. Supercrit. Fluids* (2002), 22(3), 185-199.



Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-7]**

T (K)	P (bar)	S(g/L)	y x 10^6
308.15	80	0.055	12.3
	90	0.209	34.5
	100	0.340	51.7
	110	0.374	54.6
	120	0.420	59.1
	150	0.500	68.3
	180	0.625	81.3
	200	0.725	93.6
	220	0.790	99.0
313.15	90	0.081	18.7
	95	0.142	28.0
	100	0.269	48.4
	110	0.363	60.0
	130	0.611	90.5
	140	0.666	96.2
	150	0.731	102.5
	180	0.972	130.4
	225	1.289	167.2
	275	1.365	171.0
318.15	106	0.187	39.6
	110	0.407	76.0
	125	0.771	127.8
	135	1.130	179.0
	150	1.587	237.1
	175	1.949	275.4

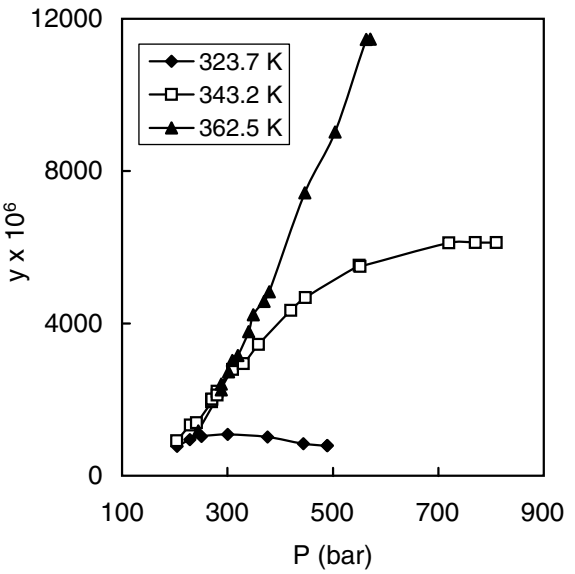


200	2.336	319.5
225	2.933	390.0
260	2.974	389.3

Source : Reverchon, E.; Russo, P.; Stassi, A. *J. Chem. Eng. Data* (1993), 38(3), 458-460.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-8]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
323.7	204.5	5.47	773
	228.5	6.90	944
	250.5	7.71	1030
	300.5	8.50	1088
	376.0	8.35	1020
	444.0	7.09	839
	489.0	6.79	789
	489.0	6.85	796
343.2	204.0	5.49	914
	230.0	8.49	1327
	241.5	9.12	1395
	270.0	13.26	1939
	270.0	13.72	2006
	270.5	13.76	2010
	280.5	15.36	2214
	280.5	14.69	2118
	310.0	20.01	2788
	330.0	21.53	2942
	359.0	25.86	3447
	420.0	33.97	4339
	448.0	37.21	4676
	550.0	46.16	5529
	551.5	45.93	5499
	720.0	54.00	6111
	770.0	54.79	6119
	810.0	55.39	6126
362.5	244.5	6.70	1179
	288.5	14.06	2251
	288.5	15.04	2408
	302.0	17.42	2727
	309.0	19.53	3025
	320.0	20.72	3160
	340.0	25.48	3786
	349.0	28.73	4223
	369.5	31.82	4576
	379.5	33.95	4834
	446.5	55.22	7430
	504.0	69.63	9023
	563.0	91.35	11455
	571.0	91.79	11468

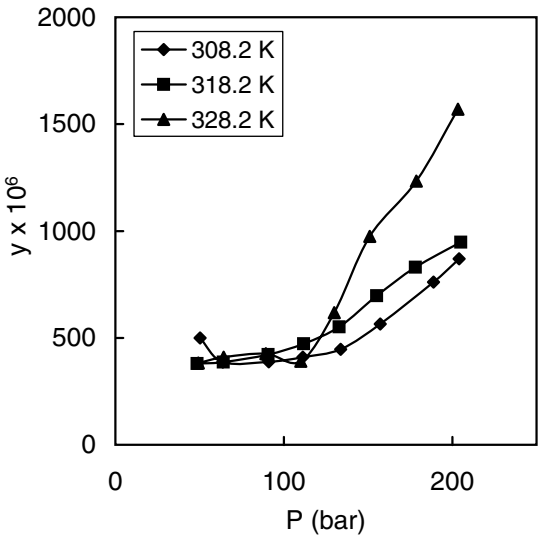


1: Calculated from S.
Source : Swaid, I.; Nickel, D.; Schneider, G. M. *Fluid Phase Equil.* (1985), 21(1-2), 95-112.

Octacosane ($C_{28}H_{58}$; MW=394.76) **[O-9]**

T (K)	P (bar)	y x 10^6
308.2	50.3	499
	63.8	387
	91.0	388
	111.2	410
	133.8	447
	157.2	565
	188.9	761
	204.1	870
318.2	48.6	380
	64.1	387
	90.7	422
	111.7	473
	132.9	552
	155.1	697
	178.2	830
	205.1	948
328.2	49.3	383
	64.2	410
	89.4	426
	110.0	391
	130.0	618
	151.0	975
	178.6	1233
	203.4	1570

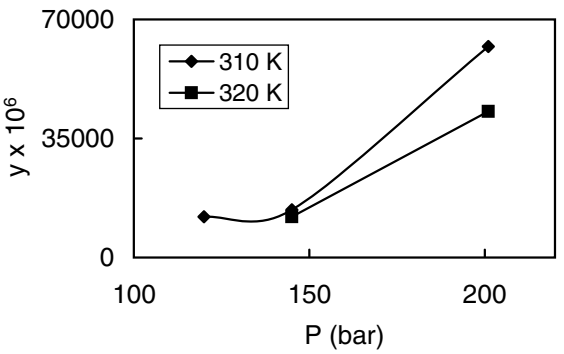
Source : Yau, J. S.; Tsai, F. N. *J. Chem. Eng. Data* (1993), 38(2), 171-174.



Octadecane ($C_{18}H_{38}$; MW=254.49) **[O-10]**

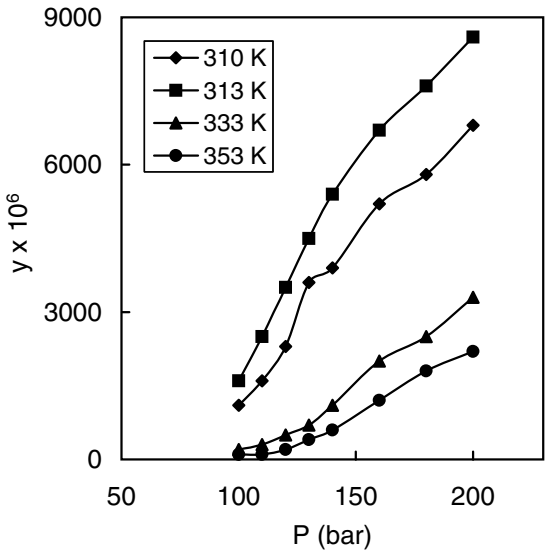
T (K)	P (bar)	y x 10^6
310	120.0	12000
	145.0	14000
	201.0	62000
320	145.0	12000
	201.0	43000

Source : Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Octadecane ($C_{18}H_{38}$; MW=254.49) **[O-11]**

T(K)	P(bar)	y x 10^6
310	100	1100
	110	1600
	120	2300
	130	3600
	140	3900
	160	5200
	180	5800
	200	6800
313	100	1600
	110	2500
	120	3500
	130	4500
	140	5400
	160	6700
	180	7600
	200	8600
333	100	200
	110	300
	120	500
	130	700
	140	1100
	160	2000
	180	2500
	200	3300
353	100	100
	110	100
	120	200
	130	400
	140	600
	160	1200
	180	1800
	200	2200

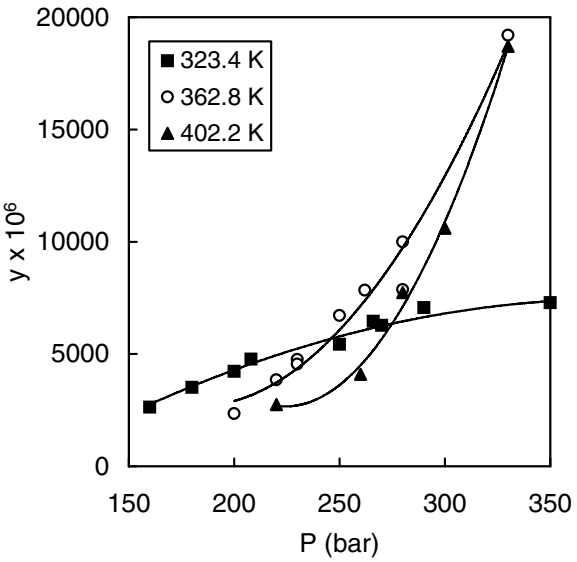


Source : Eustaquio-Rincon, R. ; Trejo, A. *Fluid Phase Equil.* (2001), 185(1-2), 231-239.

1-Octadecanol ($C_{18}H_{38}O$; MW=270.49) **[O-12]**

T (K)	P (bar)	S (g/L)	$y^{1)}$ x 10^6
323.4	160	11.7	2630
	180	16.4	3510
	200	20.5	4230
	208	23.4	4770
	250	28.0	5430
	266	33.8	6450
	270	33.0	6270
	290	37.8	7060
	350	40.6	7290

	400	40.2	7030
	520	34.4	5740
	532	32.9	5470
362.8	200	7.8	2350
	220	13.9	3850
	230	17.8	4760
	230	17.0	4550
	250	26.6	6710
	262	32.0	7840
	280	33.3	7870
	280	42.6	10000
	330	88.8	19200
402	220	7.1	2750
	260	12.5	4090
	280	25.3	7740
	300	36.7	10600
	330	69.8	18700



1: Calculated from S.

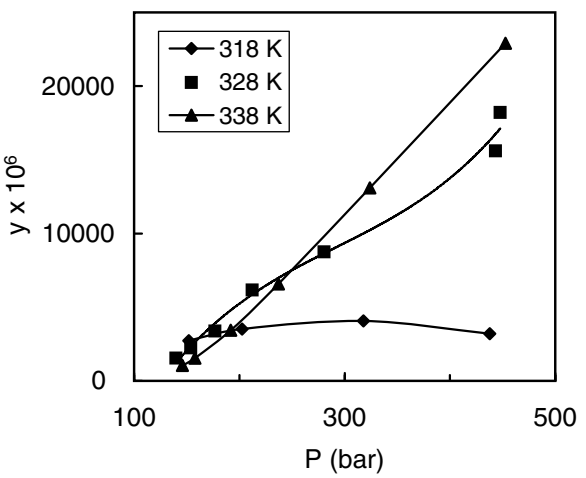
2: The solubility datum at 362.8 K and 330 bar was corrected as it is one order of magnitude smaller in th source than the actual value in the Friedrich's thesis.

Synonyms : n-Octadecyl alcohol; 1-Stearyl alcohol

Source : Friedrich, J.; Schneider, G. M. *J. Chem. Thermodyn.* (1989), 21(3), 307-319.

1-Octadecanol ($C_{18}H_{38}O$; MW=270.49) **[O-13]**

T (K)	P (bar)	y x 10^6
318	152.0	2720
	202.5	3520
	317.9	4070
	437.9	3190
328	139.9	1550
	153.9	2240
	176.9	3380
	212.3	6170
	280.6	8750
	443.2	15600
	447.7	18200
338	145.8	1040
	157.7	1550
	191.8	3440
	237.2	6570
	324.0	13100
	452.8	22900

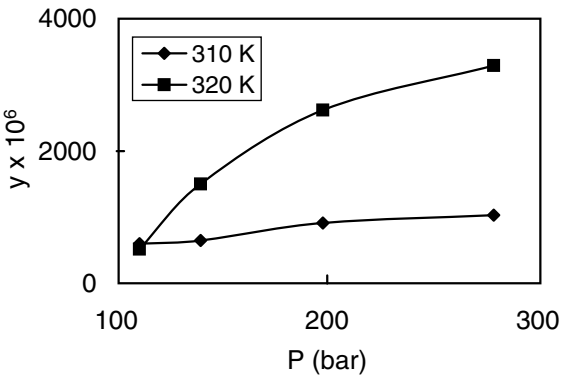


Synonyms : n-Octadecyl alcohol; 1-Stearyl alcohol

Source : Kramer, A.; Thodos, G. *J. Chem. Eng. Data* (1988), 33(3), 230-234.

1-Octadecanol ($C_{18}H_{38}O$; MW=270.49) **[O-14]**

T (K)	P (bar)	y x 10^6
310	111.0	597
	140.0	649
	198.0	913
	279.0	1030
320	111.0	517
	140.0	1500
	198.0	2620
	279.0	3290

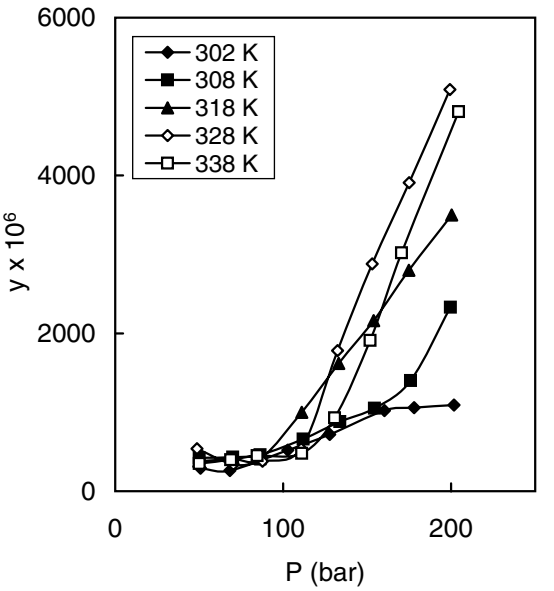


Synonyms : n-Octadecyl alcohol; 1-Stearyl alcohol

Source : Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

1-Octadecanol ($C_{18}H_{38}O$; MW=270.49) **[O-15]**

T (K)	P (bar)	y x 10^6
302	50.7	290
	68.2	260
	102.7	520
	127.6	720
	160.2	1020
	177.9	1060
	201.7	1090
308	50.0	420
	70.0	430
	86.2	460
	111.9	660
	133.8	880
	154.4	1050
	175.8	1400
	199.6	2330
318	49.8	380
	69.6	410
	86.2	410
	111.0	1000
	133.1	1620
	153.8	2160
	174.8	2800
	200.3	3500
328	48.6	540
	70.3	340
	87.6	380
	110.7	540
	132.4	1780
	153.0	2880
	175.0	3910
	199.3	5090

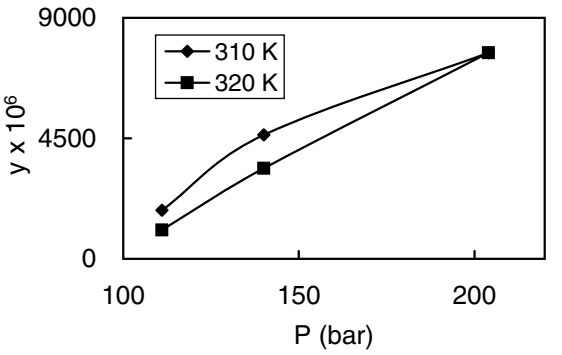


338	50.0	350
	68.8	400
	84.5	450
	111.0	480
	130.7	930
	151.7	1910
	170.5	3020
	204.4	4810

Synonyms : n-Octadecyl alcohol; 1-Stearyl alcohol
Source : Yau, J.; Tsai, F. *J. Chem. Eng. Data* (1992), 37(3), 285-287.

Octadecylmercaptan ($C_{18}H_{38}S$; MW=286.56) **[O-16]**

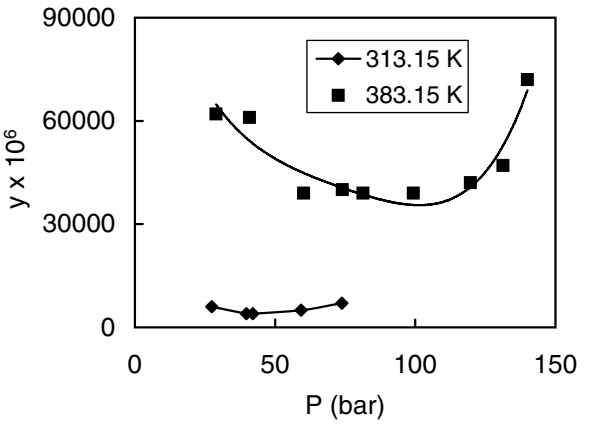
T (K)	P (bar)	y x 10^6
310	111	1810
	140	4630
	204	7700
320	111	1080
	140	3380
	204	7700



Synonyms : 1-Octadecanethiol; Stearyl mercaptan
Source : Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

***n*-Octane** (C_8H_{18}; MW=114.23) **[O-17]**

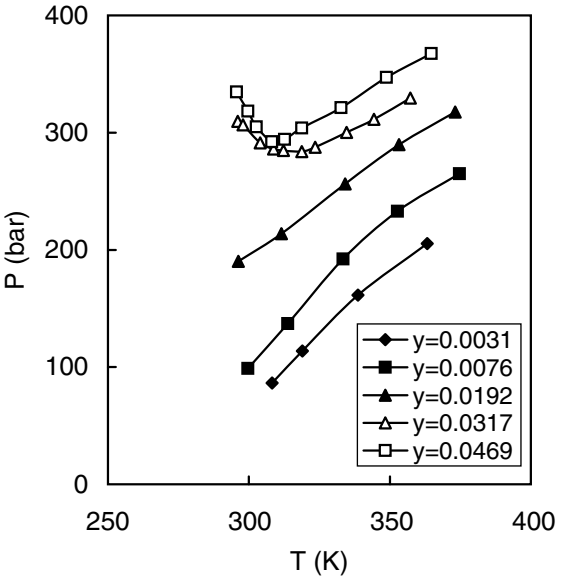
T (K)	P (bar)	y x 10^6
313.15	27.5	6000
	39.8	4000
	42.1	4000
	59.3	5000
	73.8	7000
383.15	29.0	62000
	40.9	61000
	60.2	39000
	74.0	40000
	81.4	39000
	99.3	39000
	119.7	42000
	131.3	47000
	140.0	72000



Synonym: Octane
Source: King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in: Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp.31-80.

Octyl 2,5-dichlorobenzoate ($C_{15}H_{20}Cl_2O_2$; MW=303.22) **[O-18]**

T (K)	P (bar)	y x 10^6
308.25	86.4	3100
318.95	113.8	3100
338.65	161.4	3100
363.25	205.4	3100
299.65	98.8	7600
313.75	137.1	7600
333.45	192.3	7600
352.75	232.8	7600
374.75	264.9	7600
296.25	190.2	19200
311.55	213.9	19200
334.15	256.3	19200
353.25	289.8	19200
373.15	317.5	19200
296.05	309.7	31700
297.95	306.6	31700
303.95	291.2	31700
308.75	286.1	31700
312.25	284.7	31700
318.75	283.7	31700
323.55	287.4	31700
334.65	300.1	31700
344.35	311.3	31700
357.25	329.4	31700
295.65	334.6	46900
299.65	318.2	46900
302.65	304.8	46900
308.15	292.2	46900
312.65	294.3	46900
318.75	303.8	46900
332.65	321.2	46900
348.75	347.2	46900
364.65	367.4	46900



Source : Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

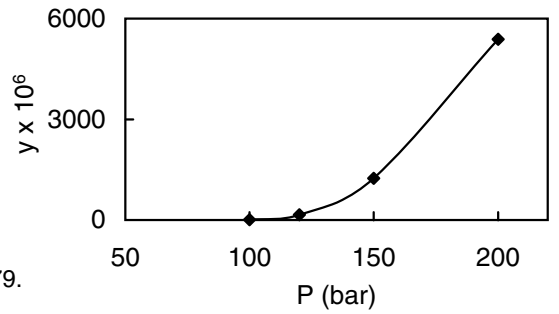
Octyl(phenyl)(*N* ,*N*-diisobutylcarbamoyl)methylphosphine oxide **[O-19]**

($C_{24}H_{42}NO_2P$; MW=407.57)

T (K)	P (bar)	M (mol/l)	y[1)] x 10^6
333	100	0.0001	12.5
	120	0.0015	154.0
	150	0.0170	1240.0
	200	0.0890	5380.0

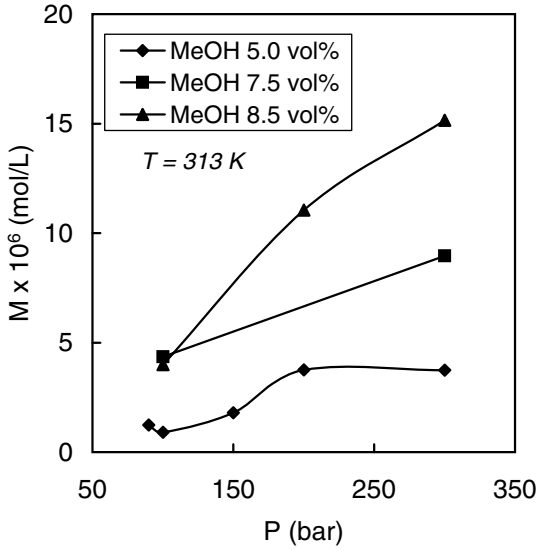
1: Calculated from M.

Source: Meguro, Y.; Iso, S.; Sasaki, T.; Yoshida, Z. *Anal. Chem.* (1998), 70(4),774-779.



Okadaic acid ($C_{44}H_{68}O_{13}$; MW=805.00) **[O-20]**

T (K)	P (bar)	Cosolvent (vol %)	M x 10^6 (mol/L)
		Methanol	
313	90	0	< det. limit
	200	0	< det. limit
	300	0	< det. limit
	90	5.0	1.24
	100	5.0	0.91
	150	5.0	1.80
	200	5.0	3.76
	300	5.0	3.74
	300	6.0	8.19
	100	7.5	4.35
	300	7.5	8.96
	100	8.5	3.99
	200	8.5	11.05
	300	8.5	15.15
333	315	5.0	1.81
		8.5	2.30
346	390	8.5	3.17
		Water	
333	315	0.1	1.08
		0.3	5.40



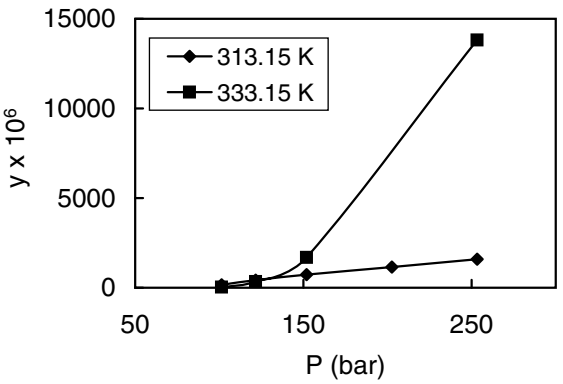
* det. limit: detection limit

Synonym : 9,10-Deepithio-9,10-didehydroacanthifolicin

Source : Gonzalez, J. C.; Vieytes, M. R.; Vieites, J. M.; Botana, L. M. *J. Am. Oil Chem. Soc.* (2001), 78(1), 77-81.

Oleic acid ($C_{18}H_{34}O_2$; MW=282.46) **[O-21]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	101.3	0.70	170
	121.6	1.95	419
	152.0	3.65	724
	202.7	6.29	1160
	253.3	9.05	1594
333.15	101.3	0.05	26
	121.6	1.01	348
	152.0	6.66	1684
	253.3	71.20	13820



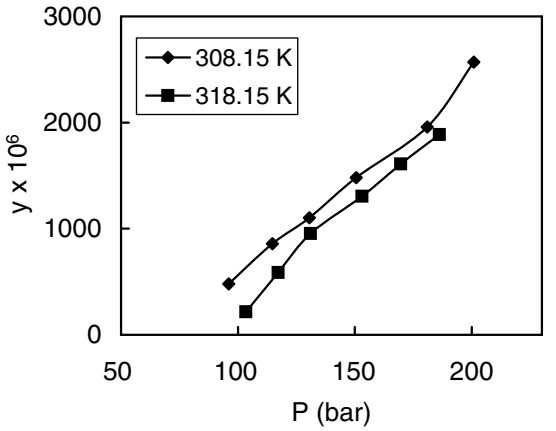
1: Calculated from S.

Synonym: (*Z*)-9-Octadecenoic acid

Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

Oleic acid ($C_{18}H_{34}O_2$; MW=282.46) **[O-22]**

T (K)	P (bar)	y x 10^6
308.15	96.0	480
	114.7	857
	130.6	1103
	150.6	1480
	180.9	1958
	200.9	2570
318.15	103.4	217
	117.2	587
	131.0	953
	153.1	1306
	169.6	1610
	186.2	1886

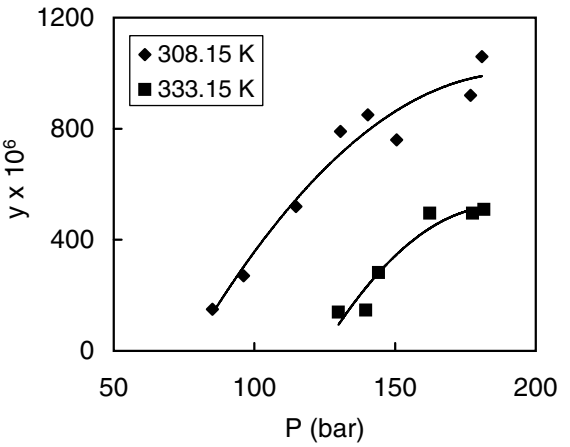


Synonym : (Z)-9-Octadecenoic acid

Source : Foster, N. R.; Yun, S. L. J.; Ting, S. S. T. *J. Supercrit. Fluids* (1991), 4(2), 127-130.

Oleic acid ($C_{18}H_{34}O_2$; MW=282.46) **[O-23]**

T (K)	P (bar)	y x 10^6
308.15	85.1	150
	96.1	270
	114.8	520
	130.6	790
	140.3	850
	150.6	760
	176.8	920
	180.9	1060
333.15	129.9	139
	139.6	147
	144.1	282
	162.3	496
	177.5	496
	181.6	509



Synonym : (*Z*)-9-Octadecenoic acid

Source : King, M. B.; Alderson, D. A.; Fallah, F. H.; Kassim, D. M.; Sheldon, J. R.; Mahmud, R. S. in: Chapter 2, Chemical Engineering at Supercritical Fluid Conditions, Paulaitis, M. E.; Penninger, J. M. L.; Gray, Jr., R. D.; Davidson, P. (Eds.) Ann Arbor Science, 1983, pp.31-80.

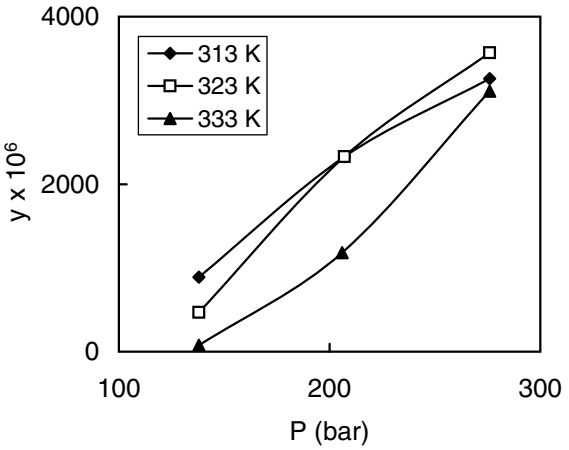
Oleic acid ($C_{18}H_{34}O_2$; MW = 282.46) **[O-24]**

T (K)	P (bar)	W (g/kg CO_2)	y[1)] x 10^6
313	138	5.7	890
	207	15.0	2330
	276	21.0	3260
323	138	3.0	470
	207	15.0	2330
	276	23.0	3570
333	138	0.5	75
	206	7.6	1180
	276	20.0	3110

1: Calculated from W.

Synonym : (*Z*)-9-Octadecenoic acid

Source : Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-76. (Also see Figure 2 in Nikolov, Z.; Maheshwari, P.; Hardwick, J.; Murphy, P.; Johnson, L. Develop. Food Sci. (1992), 29, 595-616.)



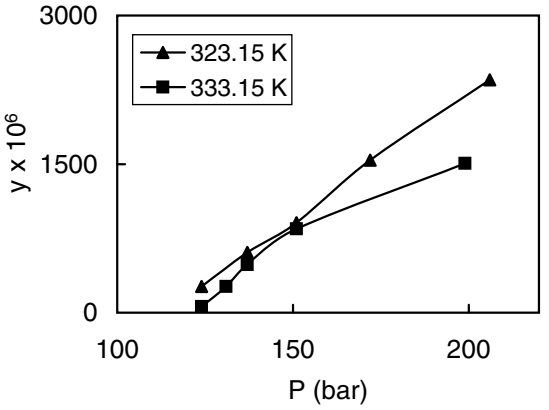
Oleic acid ($C_{18}H_{34}O_2$; MW=282.46) **[O-25]**

T (K)	P (bar)	w x 10^6	y[1)] x 10^6
323.15	124	1700	265
	137	3900	610
	151	5800	908
	172	9800	1540
	206	14900	2351
333.15	124	400	62
	131	1700	265
	137	3100	484
	151	5400	845
	199	9600	1508

1: Calculated from w.

Synonym : (Z)-9-Octadecenoic acid

Source : Nilsson, W. B.; Gauglitz, E. J. Jr.; Hudson, J. K. *J. Am. Oil Chem. Soc.* (1991), 68(2), 87-91.



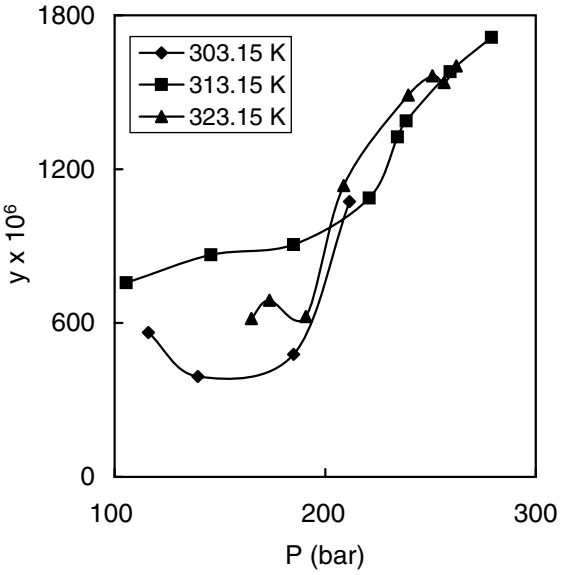
Oleic acid ($C_{18}H_{34}O_2$; MW=282.46) **[O-26]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
303.15	116.0	2.9	563
	139.5	2.1	391
	185.0	2.7	478
	211.5	6.2	1073
313.15	105.5	3.2	756
	145.8	4.3	866
	185.0	4.8	905
	221.0	6.0	1088
	234.3	7.4	1325
	238.5	7.8	1388
	259.3	9.0	1580
	279.0	9.9	1714
323.15	165.0	2.9	618
	173.5	3.3	688
	190.8	3.1	625
	208.8	5.8	1136
	239.5	7.9	1489
	251.0	8.4	1564
	256.5	8.3	1538
	262.2	8.7	1603

1: Calculated from S.

Synonyms : (*Z*)-9-Octadecenoic acid

Source : Skerget, M.; Knez, Z.; Habulin, M. *Fluid Phase Equil.* (1995), 109(1), 131-138.

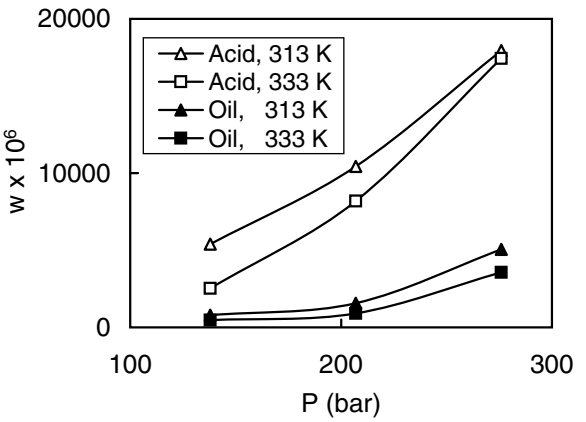


Oleic acid (1) + Olive oil (2) Mixture[1)] **[O-27]**

T (K)	P (bar)	w_1 x 10^6	w_2 x 10^6
313.15	138	5400	800
	207	10440	1560
	276	17940	5060
333.15	138	2520	480
	207	8190	910
	276	17430	3570

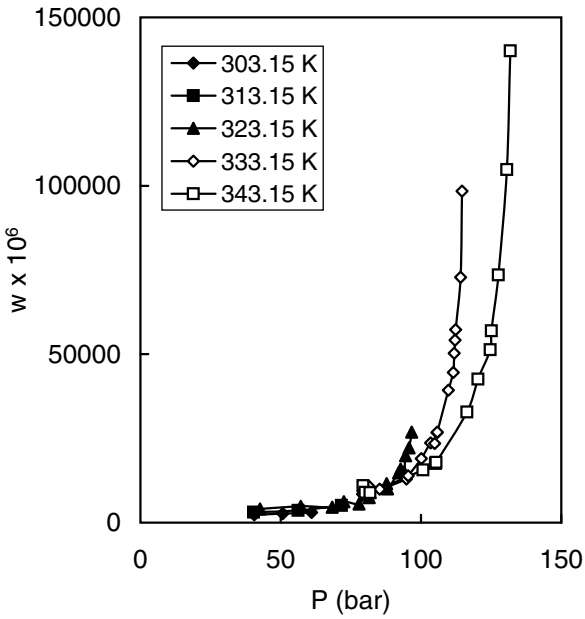
1: Solubility was measured from an equimass mixture of 1 and 2.

Source : Nikolov, Z.; Maheshwari, P.; Hardwick, J.; Murphy, P.; Johnson, L. *Develop. Food Sci.* (1992), 29, 595-616.



Orange peel oil **[O-28]**

T (K)	P (bar)	w[1] x 10^6
303.15	40.6	2300
	50.7	2700
	61.0	3000
313.15	40.4	3100
	56.2	3600
	71.7	5100
323.15	42.6	4100
	57.2	4800
	68.4	4600
	72.5	6200
	77.9	5500
	80.3	8500
	81.5	7400
	81.8	8900
	87.8	11600
	88.1	10000
	92.0	14800
	92.7	15900
	94.0	15000
	94.5	19900
	95.7	22200
	96.7	26900
333.15	79.2	8500
	79.9	8400
	81.5	10700
	85.3	9900
	94.8	13000
	95.4	13900
	100.1	19000
	103.4	23700
	104.9	23500
	105.7	26700
	105.8	26900
	109.7	39300
	111.5	44600
	111.8	50300
	112.1	54200
	112.3	57300
	114.1	72800
	114.6	98400



343.15	79.4	11000
	80.1	9000
	81.8	8900
	100.7	15600
	105.2	17500
	105.4	17900
	116.4	32800
	120.3	42600
	124.7	51300
	125.1	56900
	127.6	73500
	130.6	104800
	131.8	140100

1: Each datum represents the weight fraction of oil from one of the 3 different types of oranges: two from Brazil and one from Greece. Cold-pressed and dewaxed oils were used as feed material that has average monoterpene of about 98.5 wt%, including D-Limonene about 95.3 wt%.

Source: Budich, M.; Brunner, G. *Fluid Phase Equil.* (1999), 158-160, 759-773.

16 Solubility Data P

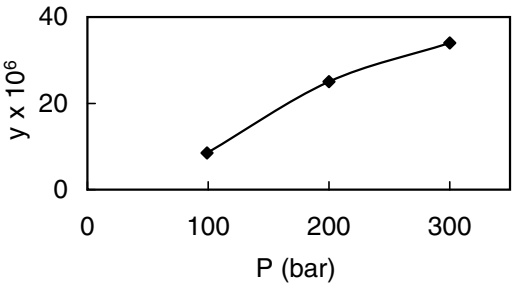
Palladium bis(acetylacetonate) ($C_{10}H_{14}O_4Pd$; FW=304.64) **[P-1]**

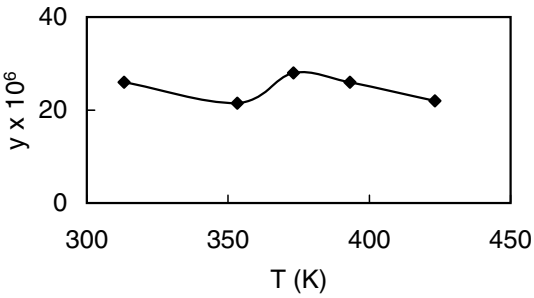
T[1] (K)	P[1] (bar)	y[1] x 10^6
313.0	99	8.5
	200	25.0
	300	34.0
313.2	196	26.0
353.3	196	21.5
373.2	196	28.0
393.1	196	26.0
423.2	196	22.0

1: Obtained by digitizing the graph in the original article.

Synonyms: Bis(2,4-pentanedionato) palladium; $Pd(acac)_2$

Source: Yoda, S.; Hasegawa, A.; Suda, H.; Uchimaru, Y.; Haraya, K.; Tsuji, T.; Otake, K. *Chem. Mater.* (2004), 16(12), 2363-2368.

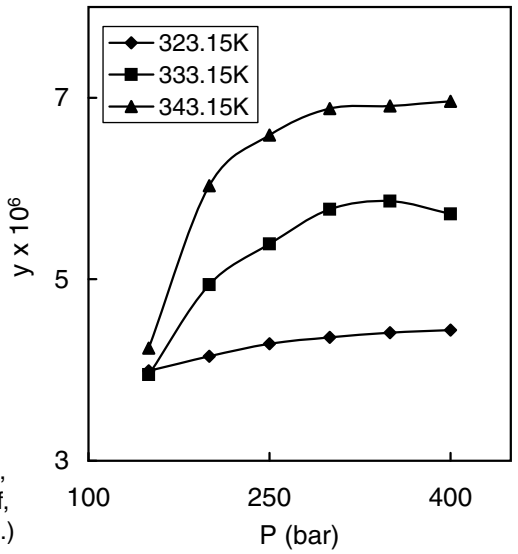




Palladium bis(methylthioglycolate) ($C_6H_{10}O_4PdS_2$; FW=316.69) **[P-2]**

T (K)	P (bar)	M x 10^6 (mol/L)	y[1] x 10^6
323.15	150	63.7	3.99
	200	74.2	4.15
	250	81.4	4.29
	300	86.3	4.36
	350	90.3	4.41
	400	93.3	4.44

333.15	150	54.6	3.95
	200	81.4	4.94
	250	96.5	5.39
	300	109.0	5.77
	350	115.1	5.86
	400	115.8	5.72
343.15	150	49.2	4.24
	200	90.6	6.03
	250	110.6	6.59
	300	123.5	6.88
	350	130.0	6.91
	400	135.7	6.96



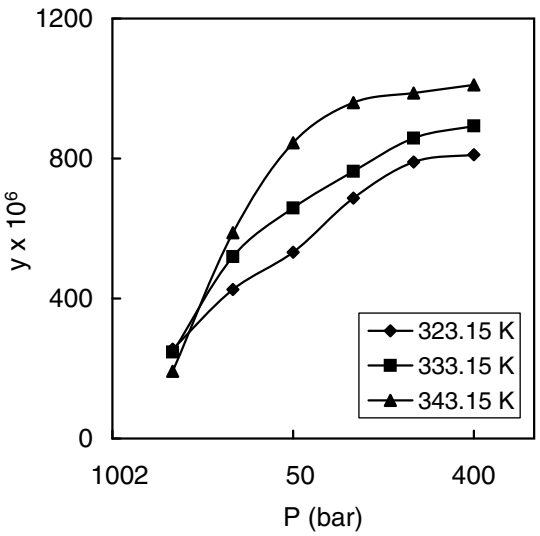
1: Calculated from M.

Synonyms: Bis(methylthioglycolato)palladium; $Pd(MTG)_2$

Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340.(*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Palladium bis(2,2,6,6-tetramethyl-3,5-heptanedionate) ($C_{22}H_{38}O_4Pd$; FW=472.94) **[P-3]**

T (K)	P (bar)	M x 10^4 (mol/L)	y[1)] x 10^6
323.15	150	40.7	255
	200	76.1	426
	250	101.2	532
	300	136.2	687
	350	161.7	790
	400	170.5	811
333.15	150	34.1	247
	200	85.8	520
	250	118.1	659
	300	144.2	763
	350	168.7	858
	400	181.1	893
343.15	150	22.3	192
	200	88.5	588
	250	142.0	845
	300	172.5	960
	350	185.7	987
	400	196.8	1010



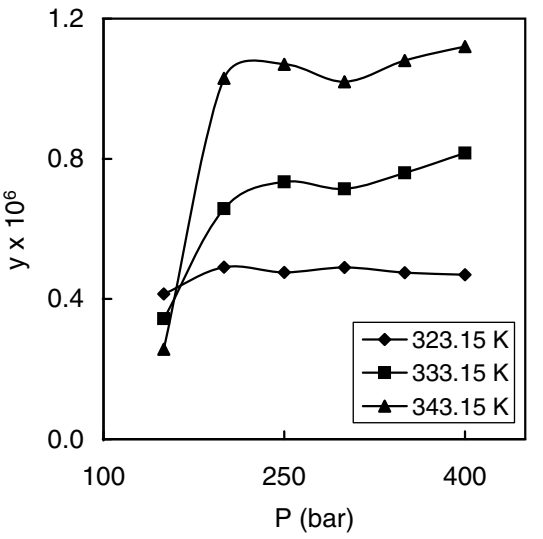
1: Calculated from M.

Synonyms: Bis(2,2,6,6-tetramethyl-3,5-heptanedionato) palladium; $Pd(thd)_2$

Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B. V., Amsterdam, Netherlands (2004), 323-340.(*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Palladium bis(diisopropyldithiocarbamate) ($C_{14}H_{28}N_2PdS_4$; FW=459.07) **[P-4]**

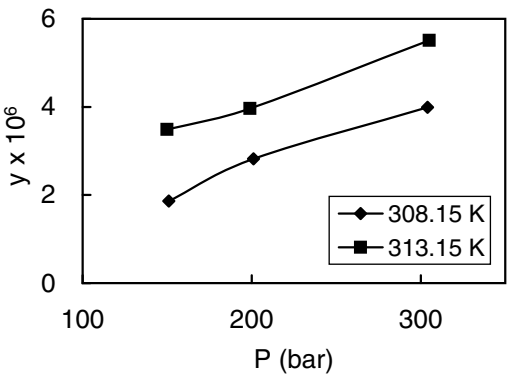
T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
323.15	150	6.61	0.414
	200	8.77	0.491
	250	9.04	0.476
	300	9.71	0.490
	350	9.71	0.475
	400	9.86	0.469
333.15	150	4.75	0.344
	200	10.85	0.658
	250	13.15	0.734
	300	13.49	0.714
	350	14.94	0.760
	400	16.54	0.816
343.15	150	2.97	0.257
	200	15.51	1.030
	250	18.00	1.070
	300	18.39	1.020
	350	20.30	1.080
	400	21.94	1.120



1: Calculated from M.
Synonym: Bis(diisopropyldithiocarbamato)palladium
Source: Wenclawiak, B. W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340.(*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Palladium diimine · BArF complex[1)] **[P-5]**

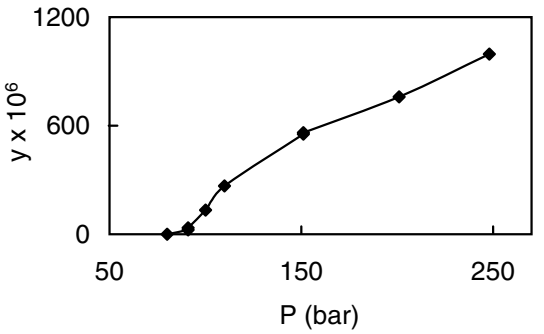
T (K)	P[2)] (bar)	M[3)] x 10^5 (mol/L)	y[4)]x 10^6
308.15	151	3.46	1.86
	201	5.56	2.82
	304	8.46	3.99
313.15	150	6.20	3.49
	199	7.57	3.96
	305	11.44	5.51



1: Brookhart's catalysts: Mixture of [*N*,*N*'-(1,2-dimethyl-1,2-ethanediylidene)bis[2,6-bis(1-methylethyl)benzenamine-Kappa*N*]] methyl[1,1'-oxybis[ethane]]palladium(1^+) tetrakis[3,5-bis(trifluoromethyl)phenyl] borate(1^-) and the same complex but with "(acetonitrile)" group instead of "[1,1'-oxybis[ethane]]" group.
2: The pressure was calculated from temperature and density.
3: Obtained by digitizing the graph in the original article.
4: Calculated from M.
Source: de Vries, T. J.; Vorstman, M. A. G.; Keurentjes, J. T. F.; Duchateau, R. *Chem. Commun.* (2000), (4), 263-264.

Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-6]**

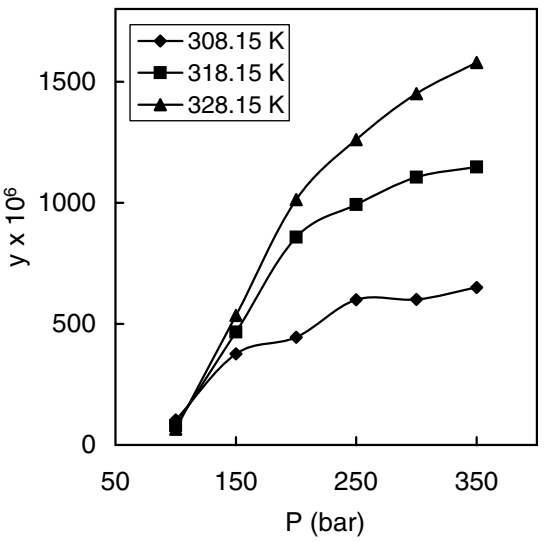
T (K)	P (bar)	y x 10^6
313	80	0.5
	91	24.2
	91	34.8
	100	133.0
	110	267.0
	151	554.0
	151	562.0
	201	759.0
	248	995.0



Synonym: Hexadecanoic acid
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.

Palmitic acid ($C_{16}H_{23}O_2$; MW=256.42) **[P-7]**

T (K)	P (bar)	y x 10^6
308.15	100	103
	150	376
	200	445
	250	599
	300	601
	350	650
318.15	100	79
	150	466
	200	858
	250	992
	300	1105
	350	1147
328.15	100	65
	150	535
	200	1013
	250	1260
	300	1450
	350	1579



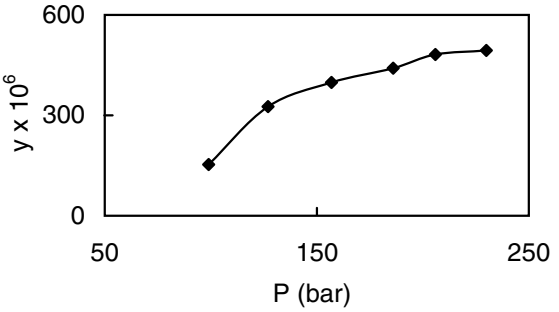
Synonym: Hexadecanoic acid
Source: Gordillo, D.; Pereyra, C.; Martinez de la Ossa, E. J. *J. Chem. Eng. Data* (2004), 49(3), 435-438.

Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-8]**

T (K)	P (bar)	y x 10^6
308.15	99	153
	127	326
	157	398
	186	441
	206	482
	230	494

Synonym: Hexadecanoic acid

Source: Iwai, Y.; Fukuda, T.; Koga, Y.; Arai, Y. *J. Chem. Eng. Data* (1991), 36(4), 430-432.

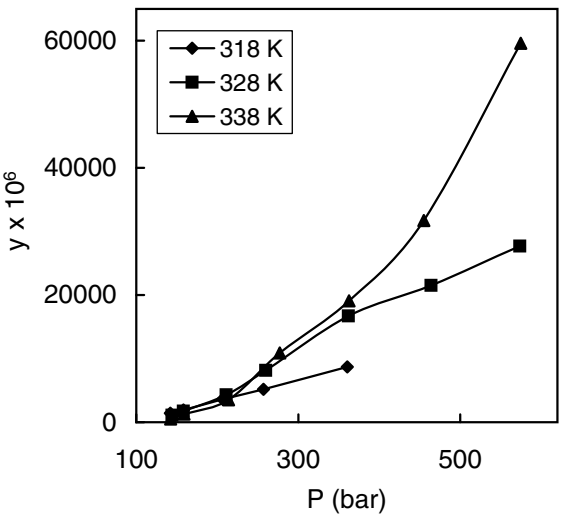


Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-9]**

T (K)	P (bar)	y x 10^6
318	142.1	1420
	158.2	1930
	206.6	3600
	257.1	5190
	360.6	8700
328	144.1	1090
	158.2	1740
	211.2	4310
	259.9	8130
	362.1	16700
	463.9	21500
	573.5	27700
338	142.5	520
	159.0	1290
	213.8	3510
	277.0	10900
	362.7	19100
	454.9	31700
	574.8	59600

Synonym: Hexadecanoic acid

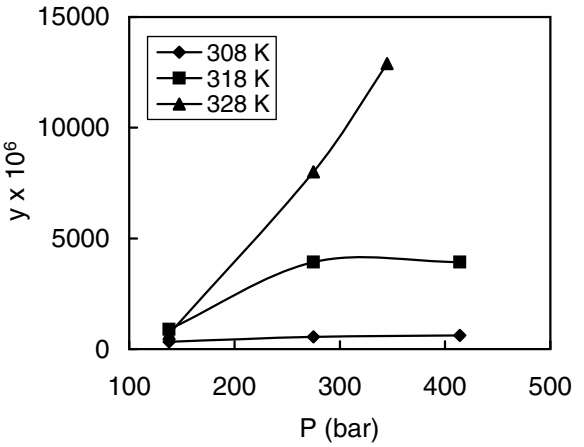
Source: Kramer, A.; Thodos, G. *J. Chem. Eng. Data* (1988), 33(3), 230-234.



Palmitic acid ($C_{16}H_{32}O_2$; MW= 256.42) **[P-10]**

T (K)	P (bar)	W (g/kg CO_2)	$y^{1)} \times 10^6$
308	138	1.9	326
	275	3.2	549
	414	3.6	617
318	138	5.2	892
	275	23.0	3930
	414	23.0	3930
328	138	4.0	686
	275	47.0	8000
	345	76.0	12900

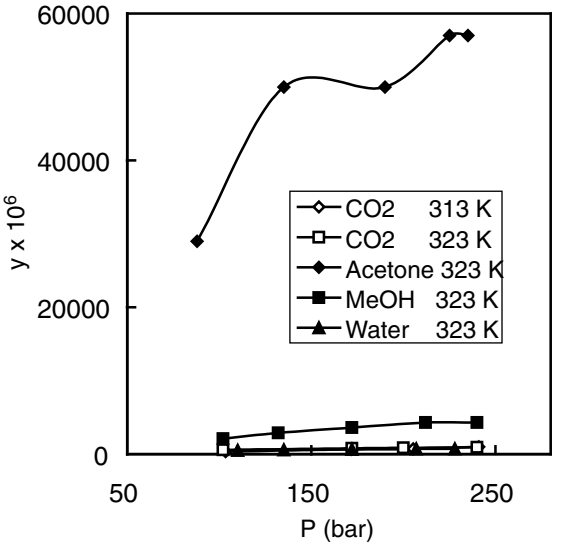
1: Calculated from W.
Synonym: Hexadecanoic acid
Source: Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-76.



Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-11]**

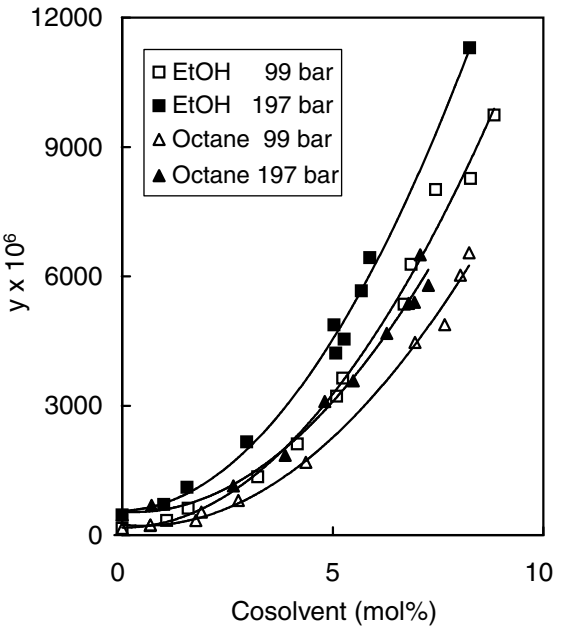
T (K)	P (bar)	Cosolvent (wt%)	$y_6 \times 10^6$
313.15	103	0.0	360
	172	0.0	640
	205	0.0	710
	241	0.0	1000
323.15	102	0.0	570
	172	0.0	780
	200	0.0	860
	240	0.0	930
		Acetone	
323.15	88	3.0	29000
	135	3.0	50000
	190	3.0	50000
	225	3.0	57000
	235	3.0	57000
		Methanol	
323.15	102	3.0	2100
	132	3.0	2900
	172	3.0	3600
	212	3.0	4300
	240	3.0	4300
		Water	
323.15	110	3.0	500
	135	3.0	570
	172	3.0	640
	207	3.0	710
	228	3.0	710

1: Obtained by digitizing the graph in the original article. Some data may have large reading errors.
Synonym: Hexadecanoic acid
Source: Noh, M. J.; Kim, T. G.; Hong, I. K.; Yoo, K.-P. *Korean J. Chem. Eng.* (1995), 12(1), 48-55.



Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-12]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
		Ethanol	
308.2	99	0.00	153
		1.06	336
		1.57	621
		3.22	1350
		4.16	2110
		5.09	3220
		5.24	3640
		6.70	5350
		6.86	6280
		7.44	8010
		8.27	8270
		8.83	9740
	197	0.00	464
		0.99	712
		1.54	1110
		2.96	2160
		5.03	4870
		5.07	4220
		5.27	4540
		5.68	5660
		5.88	6430
		8.25	11300
		n-Octane	
308.2	99	0.00	153
		0.66	226
		0.67	236
		1.75	340
		1.88	533
		2.76	804
		4.36	1690
		6.95	4470
		7.66	4880
		8.03	6030
		8.24	6550
	197	0.00	464
		0.70	690
		2.64	1140
		3.87	1850
		4.81	3100
		5.49	3580
		6.28	4680
		6.80	5370

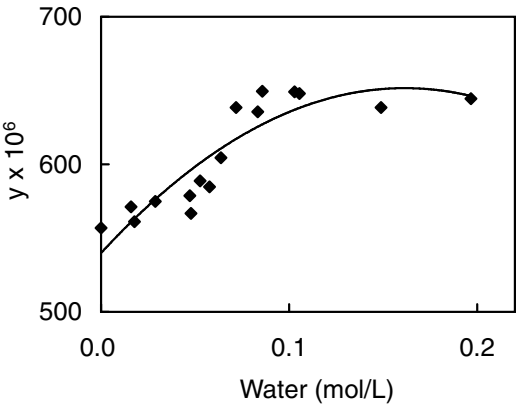


	6.94	5400
	7.08	6500
	7.27	5790

1: Cosolvent in CO_2.
Synonym: Hexadecanoic acid
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Palmitic acid ($C_{16}H_{32}O_2$; MW=256.42) **[P-13]**

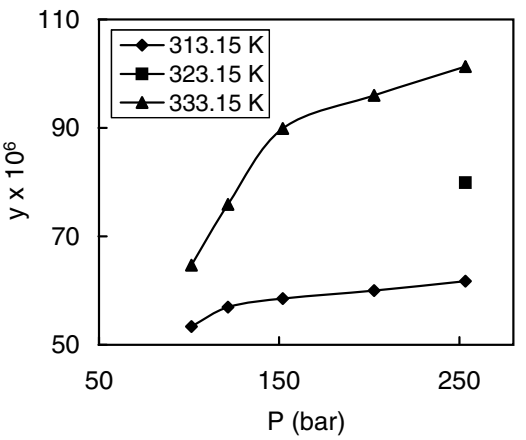
T (K)	P(bar)	Water[1)] (mol/L)	y x 10^6
313.2	150	0.000	557
		0.016	571
		0.018	561
		0.029	575
		0.047	579
		0.048	567
		0.053	589
		0.058	585
		0.064	604
		0.072	638
		0.083	636
		0.086	650
		0.103	649
		0.105	648
		0.149	638
		0.197	644



1: Cosolvent in CO_2.
Synonym: Hexadecanoic acid
Source: Iwai, Y.; Uno, M.; Nagano, H.; Arai, Y. *J. Supercrit. Fluids* (2004), 28(2-3), 193-200.

Palmityl behenate ($C_{38}H_{76}O_2$; MW=565.01) **[P-14]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	101.3	0.44	53
	121.6	0.53	57
	152.0	0.59	59
	202.7	0.65	60
	253.3	0.70	62
323.15	253.3	0.86	80
333.15	101.3	0.25	65
	121.6	0.44	76
	152.0	0.71	90
	202.7	0.90	96
	253.3	1.03	101

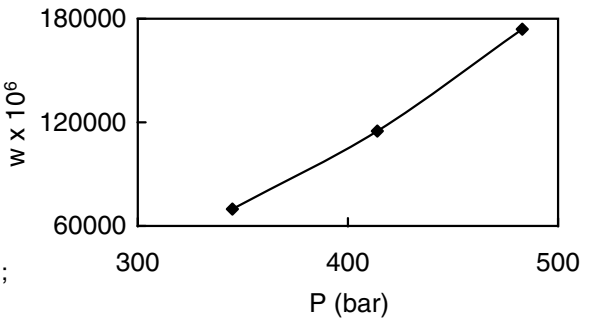


1: Calculated from S.
Synonyms: Hexadecyl docosanoate; Cetyl behenate
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

Palm kernel oil **[P-15]**

T (K)	P[1)] (bar)	W[1)] (g/kg CO_2)	w[2)] x 10^6
313.15	345	75	69800
	414	130	115000
	483	210	174000

1: Obtained by digitizing the graph in the original article.
2: Calculated from W.

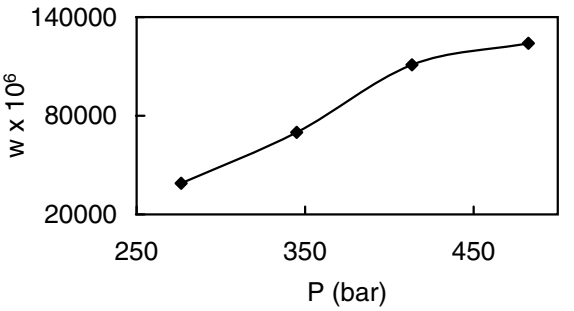


Source: Nik Norulaini, N. A.; Md Zaidul, I. S.; Anuar, O.; Azlan, A.; Omar, A. K. M. *J. Chem. Eng. Japan* (2004), 37(2), 194-203.

Palm kernel oil **[P-16]**

T (K)	P[1)] (bar)	W[1)] (g/kg CO_2)	w[2)] x 10^6
353.15	277	40	38900
	345	75	70000
	413	125	111000
	482	141	124000

1: Obtained by digitizing the graph in the original article.
2: Calculated from W.

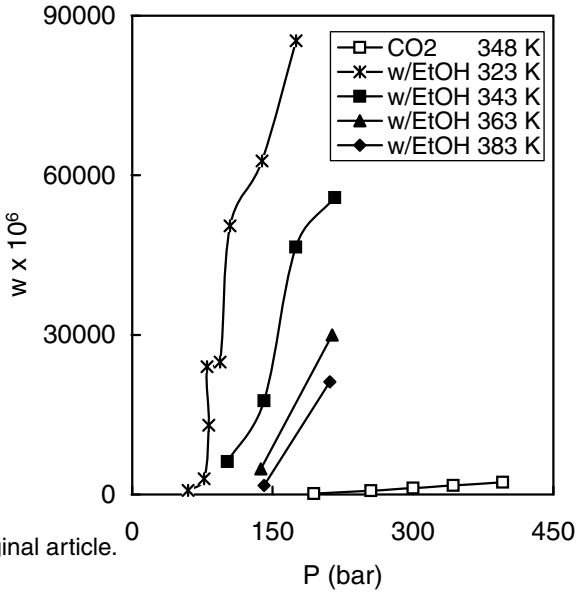


Source: Nik Norulaini, N. A.; Md Zaidul, I. S.; Anuar, O.; Mohd. Omar, A. K. *Sep. Purif. Tech.*(2004), 39(3), 133-138.

Palm oil[1)] **[P-17]**

T (K)	P[2)] (bar)	Ethanol[3)] (wt%)	w[2)] x 10^6
348.15	194	0	169
	255	0	702
	300	0	1200
	343	0	1710
	396	0	2290

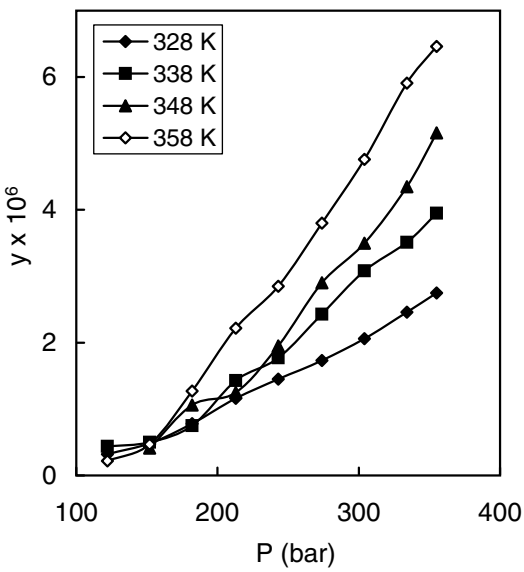
323.15	60	~ 10	775
	77	~ 10	2950
	82	~ 10	13000
	80	~ 10	24000
	94	~ 10	24900
	104	~ 10	50500
	139	~ 10	62700
	175	~ 10	85300
343.15	102	~ 10	6200
	141	~ 10	17600
	175	~ 10	46500
	217	~ 10	55800
363.15	138	~ 10	4810
	214	~ 10	30000
383.15	141	~ 10	1710
	211	~ 10	21200



1: Palm oil containing 85% triglycerides.
2: Obtained by digitizing the graph in the original article.
3: Cosolvent in CO_2.
Source: Brunner, G.; Peter, S. *Sep. Sci. Technol.* (1982), 17(1), 199-214.

Para red ($C_{16}H_{11}N_3O_3$; MW=293.28) **[P-18]**

T (K)	P(bar)	S x 10^2 (g/L)	y x 10^6
328	122	0.11	0.32
	152	0.21	0.48
	182	0.38	0.78
	213	0.60	1.16
	243	0.77	1.45
	274	0.96	1.73
	304	1.17	2.06
	334	1.43	2.46
	355	1.62	2.75
338	122	0.12	0.44
	152	0.19	0.50
	182	0.33	0.75
	213	0.68	1.43
	243	0.89	1.77
	274	1.27	2.43
	304	1.67	3.08
	334	1.95	3.51
	355	2.23	3.95
348	152	0.13	0.41
	182	0.41	1.06
	213	0.54	1.25
	243	0.91	1.95
	274	1.43	2.90
	304	1.80	3.50
	334	2.31	4.35
	355	2.79	5.16

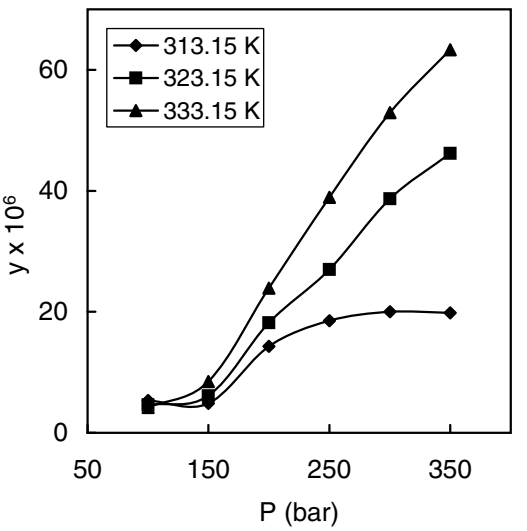


358	122	0.04	0.22
	152	0.13	0.47
	182	0.27	1.27
	213	0.54	2.22
	243	1.18	2.85
	274	1.75	3.80
	304	2.31	4.76
	334	2.98	5.91
	355	3.33	6.46

Synonyms: 1-(4-Nitrophenylazo)-2-naphthol; C. I. Pigment Red 1
Source: Fasihi, J.; Yamini, Y.; Nourmohammadian, F.; Bahramifar, N. *Dyes Pigm.* (2004), 63(2), 161-168.

Penicillin G ($C_{16}H_{18}N_2O_4S$; MW=334.39) **[P-19]**

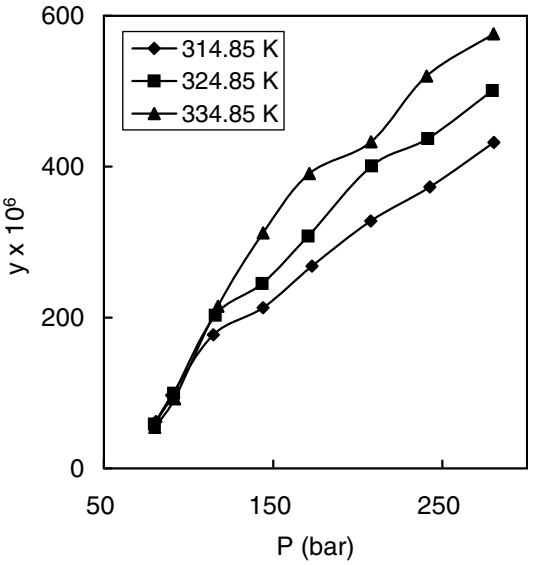
T (K)	P (bar)	y x 10^6
313.15	100	5.35
	150	4.85
	200	14.30
	250	18.50
	300	20.00
	350	19.80
323.15	100	4.62
	150	6.13
	200	18.20
	250	27.00
	300	38.70
	350	46.20
333.15	100	4.20
	150	8.49
	200	23.90
	250	38.90
	300	52.90
	350	63.30



Synonym: Benzylpenicillin
Source: Gordillo, M. D.; Blanco, M. A.; Molero, A.; De la Ossa, E. M. *J. Supercrit. Fluids* (1999), 15(3), 183-190.

Penicillin V ($C_{16}H_{18}N_2O_5S$; MW=350.39) **[P-20]**

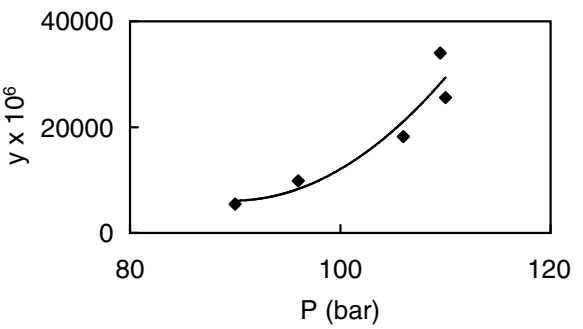
T (K)	P (bar)	y x 10^6
314.85	80.8	62.3
	90.1	97.0
	114.7	177.0
	144.0	213.0
	173.0	268.0
	207.7	328.0
	242.5	373.0
	280.5	432.0
324.85	79.9	58.7
	91.2	99.4
	115.8	203.0
	143.5	245.0
	170.7	308.0
	208.1	401.0
	241.4	437.0
	279.6	501.0
334.85	80.1	54.5
	91.7	92.3
	117.4	215.0
	144.0	312.0
	171.4	391.0
	207.8	433.0
	240.7	520.0
	280.2	576.0



Synonym: Phenoxymethylpenicillin
Source: Ko, M.; Shah, V.; Bienkowski, P. R.; Cochran, H. D. *J. Supercrit. Fluids* (1991), 4(1), 32-39.

1,2,3,4,6-Pentaacetyl-D-galactose ($C_{16}H_{22}O_{11}$; MW=390.34) **[P-21]**

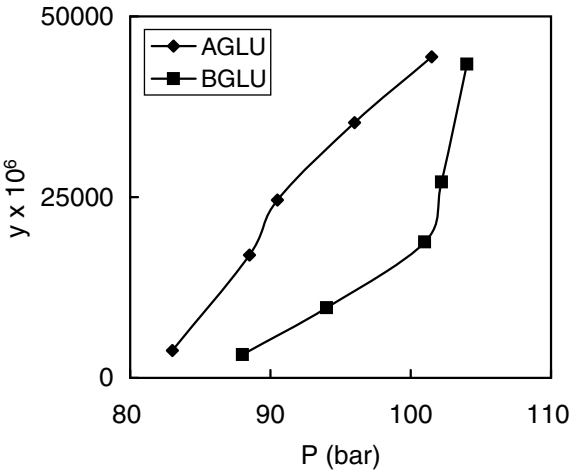
T (K)	P[1] (bar)	w[1] x 10^6	y[2] x 10^6
313.15	90.0	46500	5470
	96.0	81000	9840
	106.0	141000	18200
	109.5	238000	34000
	110.0	189000	25600



1: Obtained by digitizing the graph in the original article.
2: Calculated from w.
Synonyms: β-D-Galactopyranose pentaacetate; β-D-Galactose
Source: Raveendran, P.; Wallen, S. L. *J. Am. Chem. Soc.* (2002), 124(25), 7274-7275.

1,2,3,4,6-Pentaacetyl-D-glucose ($C_{16}H_{22}O_{11}$; MW=390.34) **[P-22]**

T (K)	P[1] (bar)	w[1] x 10^6	y[2] x 10^6
		AGLU	
313.15	83.0	33000	3800
	88.5	133000	17000
	90.5	183000	24600
	96.0	245000	35300
	101.5	292000	44400
		BGLU	
313.15	88.0	28000	3240
	94.0	80000	9700
	101.0	145000	18800
	102.2	198000	27100
	104.0	287000	43400



1: Obtained by digitizing the graph in the original article.

2: Calculated from w.

AGLU:α-form of 1,2,3,4,6-Pentaacetyl-D-glucose

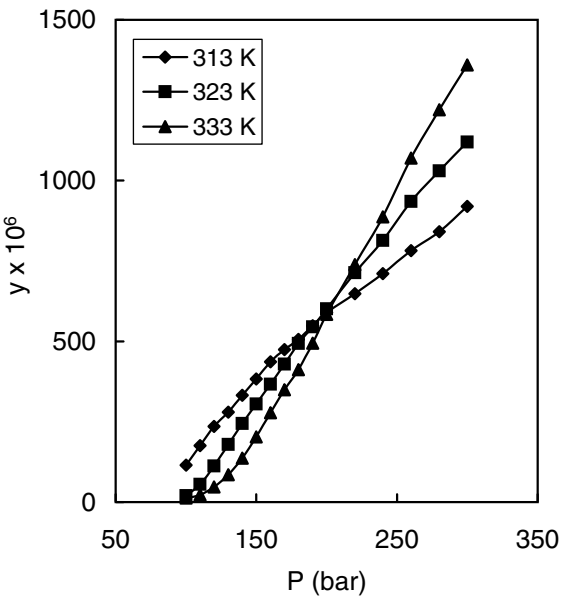
BGLU:β-form of 1,2,3,4,6-Pentaacetyl-D-glucose

Synonyms: D-Glucose pentaacetate;D-Glucopyranose pentaacetate

Source: Raveendran, P.; Wallen, S. L. *J. Am. Chem. Soc.* (2002), 124(25), 7274-7275.

2,2',4,5,5'-Pentachlorobiphenyl ($C_{12}H_5Cl_5$; MW=326.43) **[P-23]**

T (K)	P (bar)	y x 10^6
313	100	115
	110	176
	120	235
	130	280
	140	332
	150	383
	160	436
	170	474
	180	506
	190	549
	200	589
	220	648
	240	711
	260	782
	280	841
	300	920
323	100	20
	110	55
	120	112
	130	179
	140	244
	150	305



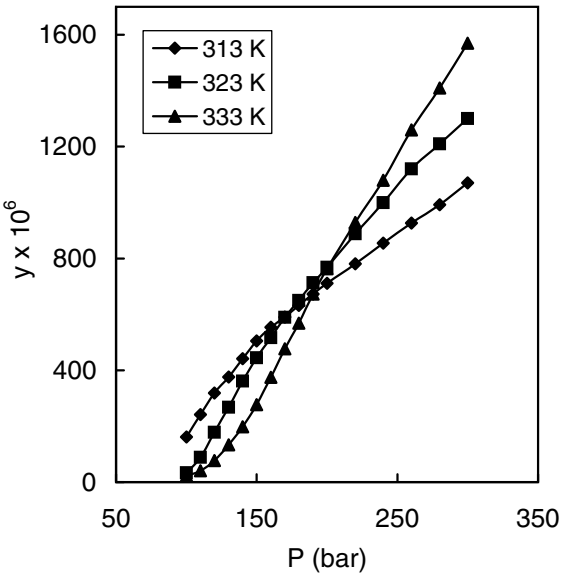
	160	367
	170	429
	180	493
	190	545
	200	601
	220	713
	240	814
	260	935
	280	1030
	300	1120
333	100	13
	110	23
	120	47
	130	85
	140	137
	150	203
	160	278
	170	349
	180	412
	190	494
	200	584
	220	739
	240	887
	260	1070
	280	1220
	300	1360

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,2',4,5,5'-Pentachlorobiphenyl ($C_{12}H_5Cl_5$; MW=326.43) **[P-24]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	161
	110	5.0	242
	120	5.0	319
	130	5.0	376
	140	5.0	441
	150	5.0	505
	160	5.0	554
	170	5.0	590
	180	5.0	632
	190	5.0	673
	200	5.0	711
	220	5.0	781
	240	5.0	855
	260	5.0	926
	280	5.0	992
	300	5.0	1070

323	100	5.0	33
	110	5.0	89
	120	5.0	178
	130	5.0	268
	140	5.0	361
	150	5.0	444
	160	5.0	516
	170	5.0	589
	180	5.0	650
	190	5.0	713
	200	5.0	768
	220	5.0	888
	240	5.0	999
	260	5.0	1120
	280	5.0	1210
	300	5.0	1300
333	100	5.0	23
	110	5.0	41
	120	5.0	77
	130	5.0	133
	140	5.0	198
	150	5.0	277
	160	5.0	375
	170	5.0	477
	180	5.0	568
	190	5.0	673
	200	5.0	763
	220	5.0	929
	240	5.0	1080
	260	5.0	1260
	280	5.0	1410
	300	5.0	1570

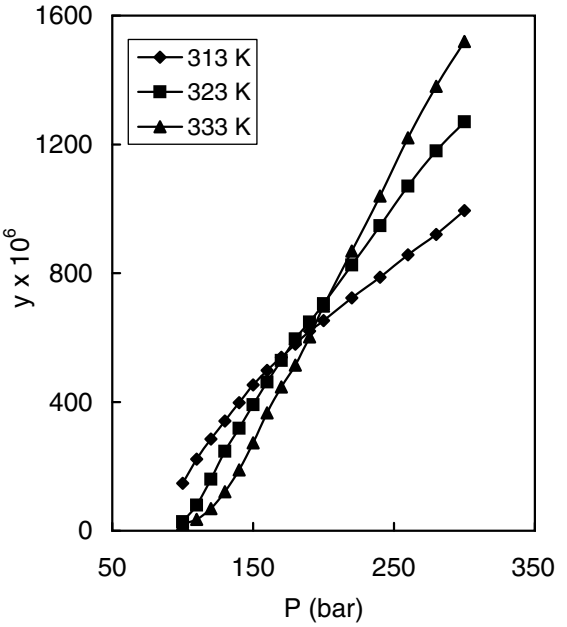


1: Cosolvent in CO_2.
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,2',4,5,5'-Pentachlorobiphenyl ($C_{12}H_5Cl_5$; MW=326.43) **[P-25]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	147
	110	5.0	222
	120	5.0	285
	130	5.0	341
	140	5.0	398
	150	5.0	453
	160	5.0	498
	170	5.0	539
	180	5.0	579
	190	5.0	620
	200	5.0	653

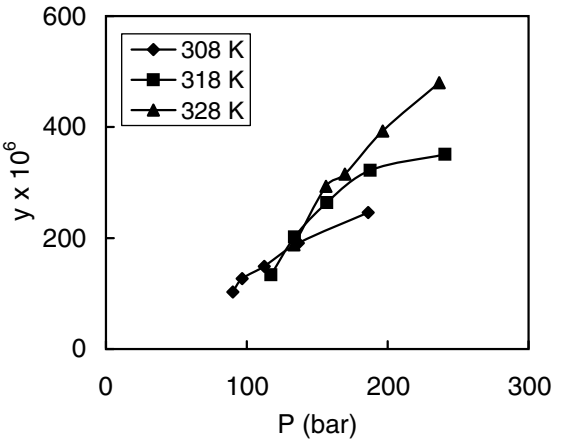
	220	5.0	723
	240	5.0	787
	260	5.0	857
	280	5.0	920
	300	5.0	994
323	100	5.0	28
	110	5.0	80
	120	5.0	160
	130	5.0	247
	140	5.0	318
	150	5.0	391
	160	5.0	462
	170	5.0	529
	180	5.0	596
	190	5.0	648
	200	5.0	705
	220	5.0	825
	240	5.0	947
	260	5.0	1070
	280	5.0	1180
	300	5.0	1270
333	100	5.0	21
	110	5.0	35
	120	5.0	69
	130	5.0	121
	140	5.0	189
	150	5.0	273
	160	5.0	366
	170	5.0	447
	180	5.0	514
	190	5.0	602
	200	5.0	698
	220	5.0	869
	240	5.0	1040
	260	5.0	1220
	280	5.0	1380
	300	5.0	1520



1: Cosolvent in CO_2.
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Pentachlorophenol (C_6HCl_5O ; MW=266.34) **[P-26]**

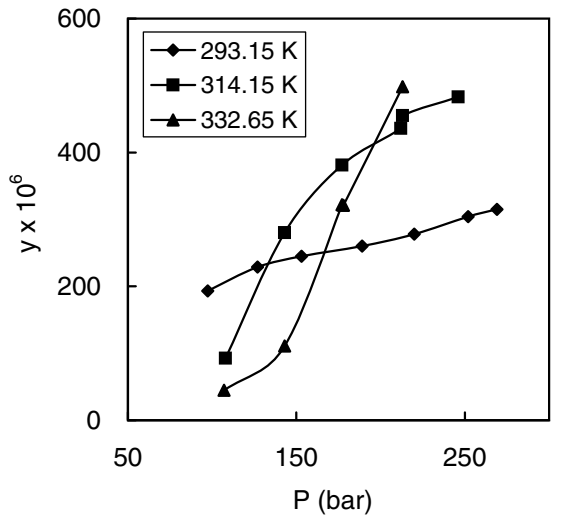
T (K)	P (bar)	y x 10^6
308	90.0	103
	96.7	127
	112.4	149
	136.5	191
	186.2	246
318	117.2	134
	133.8	202
	156.9	264
	187.5	322
	240.6	351
328	133.4	188
	156.2	293
	169.6	315
	196.5	393
	236.5	480



Source: Cross, W. J. ; Akgerman, A. *Ind. Eng. Chem. Res.* (1998), 37(4), 1510-1518.

Pentachlorophenol (C_6HCl_5O; MW=266.34) **[P-27]**

T (K)	P (bar)	y x 10^6
293.15	97.4	193
	127	229
	153	245
	189	260
	220	278
	252	304
	269	315
314.15	108	93
	143	280
	177	381
	212	436
	213	455
	246	483
332.65	107	45
	143	111
	177	322
	178	321
	213	498



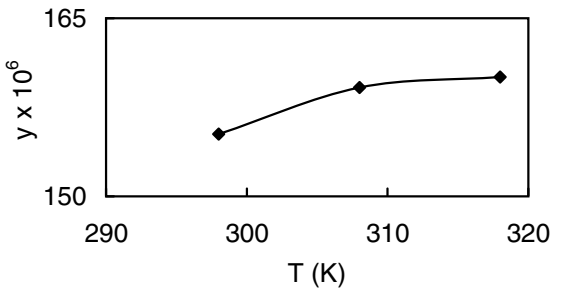
Source: Curren, M. S. S.; Burk, R. C. *J. Chem. Eng. Data* (2000), 45(5), 746-750.

Pentachlorophenol (C_6HCl_5O; MW=266.34) **[P-28]**

P (bar)	T (K)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
111.5	298	2950	155
	308	2710	159
	318	2240	160

1: Calculated from M.

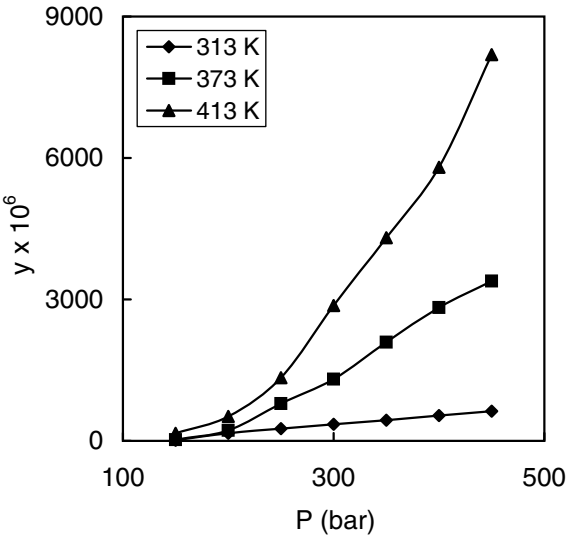
Source: Madras, G.; Erkey, C.; Akgerman, A. *J. Chem. Eng. Data* (1993), 38(3), 422-423.



Pentachlorophenol (C_6HCl_5O; MW=266.34) **[P-29]**

T (K)	P (bar)	y x 10^6
313	150	10
	200	160
	250	260
	300	350
	350	440
	400	540
	450	631
373	150	24
	200	220
	250	790
	300	1310
	350	2090
	400	2830
	450	3390
413	150	162
	200	519
	250	1340
	300	2870
	350	4310
	400	5800
	450	8190

Source: Miller, D. J.; Hawthrone, S. B.; Clifford, A. A. *J. Supercrit. Fluids* (1997), 10(1), 57-63.



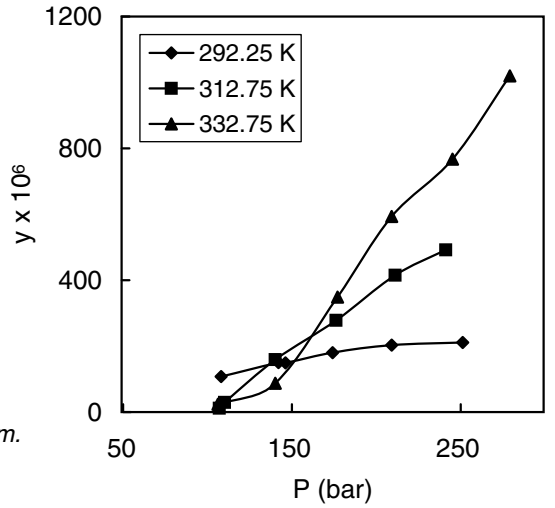
Pentachlorophenol (C_6HCl_5O; MW=266.34) **[P-30]**

T (K)	P (bar)	$H_2O^{1)}$	y x 10^6
292.25	109	Sat'd	108
	143	Sat'd	150
	147	Sat'd	149
	175	Sat'd	180
	210	Sat'd	203
	252	Sat'd	211

312.75	108	Sat'd	11
	111	Sat'd	29
	141	Sat'd	159
	177	Sat'd	278
	212	Sat'd	415
	242	Sat'd	492
332.75	107	Sat'd	24
	141	Sat'd	87
	178	Sat'd	349
	210	Sat'd	593
	246	Sat'd	767
	280	Sat'd	1020

1: Cosolvent saturated in CO_2.

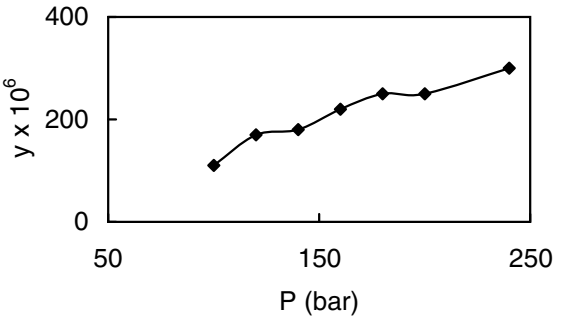
Source: Curren, M. S. S.; B, Robert C. *J. Chem. Eng. Data* (2000), 45(5), 746-750.



Pentacosane ($C_{25}H_{52}$; MW=352.68) **[P-31]**

T (K)	P (bar)	y x 10^6
308.2	100	110
	120	170
	140	180
	160	220
	180	250
	200	250
	240	300

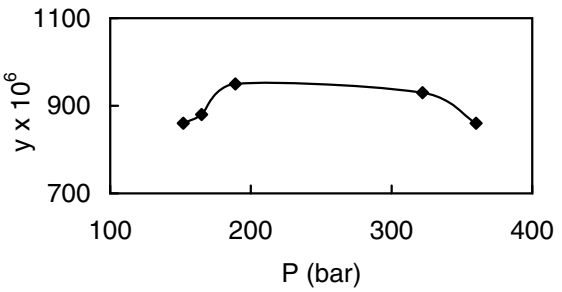
Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41(1), 6-10.



Pentacosane ($C_{25}H_{52}$; MW= 352.68) **[P-32]**

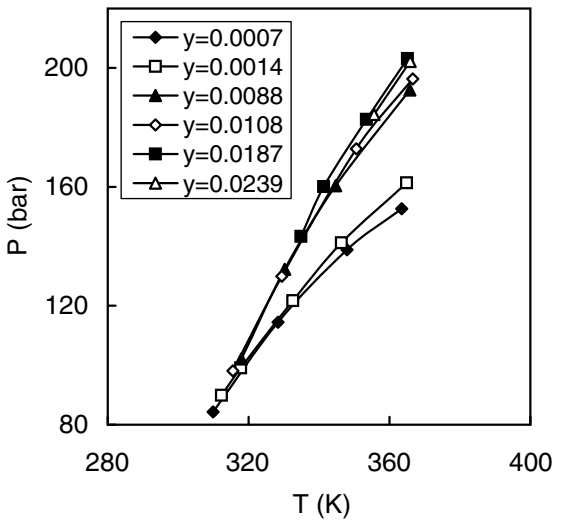
T (K)	P (bar)	y x 10^6
313	152	860
	165	880
	189	950
	322	930
	360	860

Source: Furuya, T.; Teja, A. S. *J. Supercrit. Fluids* (2004), 29(3), 231-236.



Pentadecafluorooctyl 2,5-dichlorobenzoate ($C_{15}H_5Cl_2F_{15}O_2$; MW=573.09) **[P-33]**

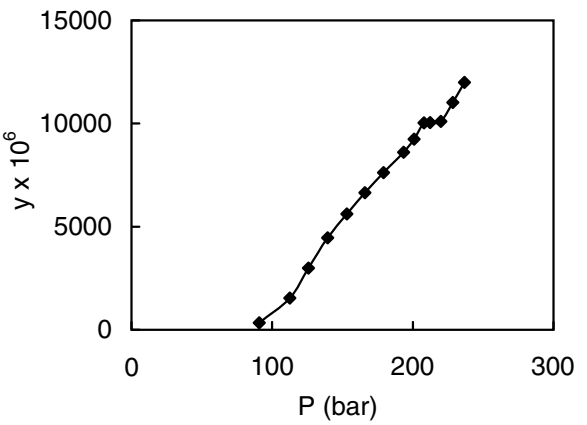
T (K)	P (bar)	y x 10^6
309.95	84.3	700
328.35	114.5	700
347.95	138.8	700
363.45	152.6	700
312.35	89.9	1400
317.75	99.1	1400
332.55	121.7	1400
346.35	141.2	1400
364.85	161.4	1400
317.95	102.1	8800
330.25	132.3	8800
344.75	160.4	8800
365.75	192.6	8800
315.55	98.1	10800
329.45	129.9	10800
350.55	172.8	10800
366.65	196.3	10800
334.85	143.3	18700
341.35	160.1	18700
353.45	182.7	18700
365.15	203.2	18700
355.65	184.4	23900
365.85	202.2	23900



Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

1-Pentadecanol ($C_{15}H_{33}O$; MW=229.42) **[P-34]**

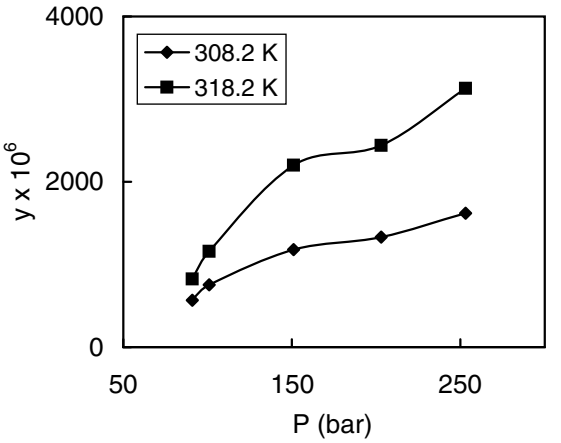
T (K)	P (bar)	y x 10^6
323.15	90.8	342
	112.5	1538
	125.8	2994
	139.4	4454
	153.2	5618
	165.9	6646
	179.2	7626
	193.5	8604
	201.0	9238
	207.9	10030
	212.3	10050
	219.9	10100
	228.5	11020
	236.6	12000



Source: Artal, M.; Pauchon, V. ; Embid, J. M. ; Jose, J. *J. Chem. Eng. Data* (1998), 43(6), 983-985.

Pentadecanolactone ($C_{15}H_{28}O_2$; MW=240.38) **[P-35]**

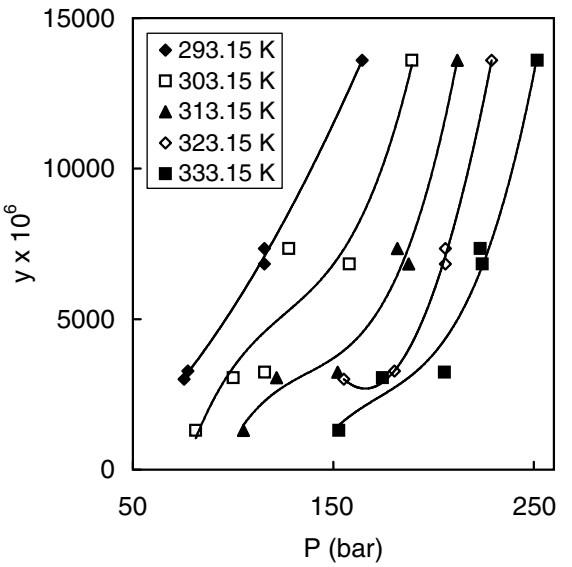
T (K)	P (bar)	y x 10^6
308.2	91	567
	101	753
	151	1180
	203	1330
	253	1620
318.2	91	825
	101	1160
	151	2200
	203	2440
	253	3130



Synonyms: 15-Pentadecanolide; Oxacyclohexadecan-2-one
Source: Mishima, K.; Matsuyama, K.; Baba, M.; Hirabaru, T.; Yamauchi, S.; Tomokage, H.; Takahashi, K.; Yamasaki, N. *J. Chem. Eng. Data* (2001), 46(1), 69-72.

Pentaethylene glycol *n*-octyl ether ($C_{18}H_{38}O_6$; MW=350.49) **[P-36]**

T (K)	P (bar)	w[1] (wt %)	y[2] x 10^6
293.15	75.6	2.35	3010
	77.5	2.55	3280
	115.6	5.19	6830
	115.6	5.57	7350
	164.3	9.91	13600
303.15	81.3	1.03	1300
	100.1	2.38	3050
	115.7	2.52	3240
	127.8	5.57	7350
	158.0	5.19	6830
	189.2	9.88	13600
313.15	105.2	1.00	1300
	121.7	2.32	3050
	152.2	2.52	3240
	181.9	5.54	7350
	187.6	5.16	6830
	211.8	9.85	13600
323.15	155.2	2.38	3010
	180.4	2.52	3280
	205.8	5.16	6830
	205.8	5.57	7350
	229.0	9.88	13600

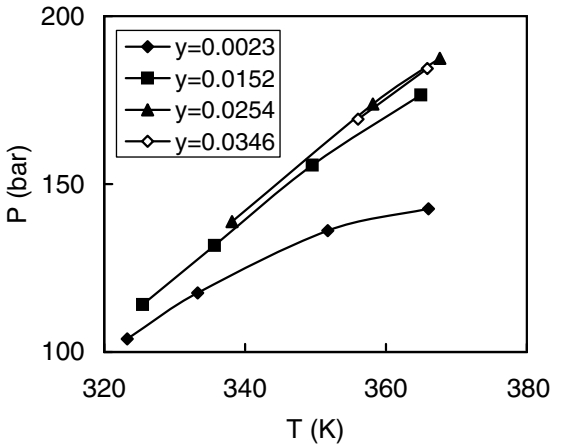


333.15	152.8	1.09	1300
	174.6	2.38	3050
	205.4	2.52	3240
	223.3	5.16	7350
	224.4	5.54	6830
	251.7	9.88	13600

1: Obtained by digitizing the graph in the original article.
2: Calculated from w.
Synonyms: Octylpentaglycol; Octyl pentaethylene glycol ether
Source: McFann, G. J.; Johnston, K. P.; Howdle, S. M. *AIChE J.* (1994), 40(3), 543-555.

Pentafluorobutyl 2,5-dichlorobenzoate ($C_{11}H_7Cl_2F_5O_2$; MW=337.07) **[P-37]**

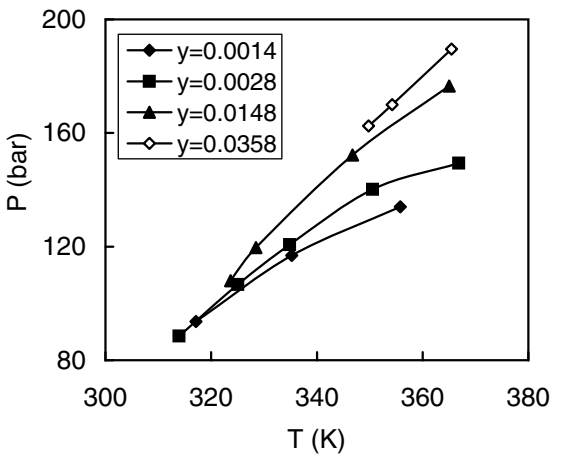
T (K)	P (bar)	y x 10^6
323.25	103.9	2300
333.25	117.6	2300
351.75	136.1	2300
366.05	142.6	2300
325.45	114.1	15200
335.65	131.7	15200
349.55	155.6	15200
364.95	176.5	15200
338.15	138.8	25400
358.15	173.8	25400
367.65	187.4	25400
356.05	169.3	34600
365.85	184.4	34600



Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

Pentafluoropropyl 2,5-dichlorobenzoate ($C_{10}H_5Cl_2F_5O_2$; MW=323.04) **[P-38]**

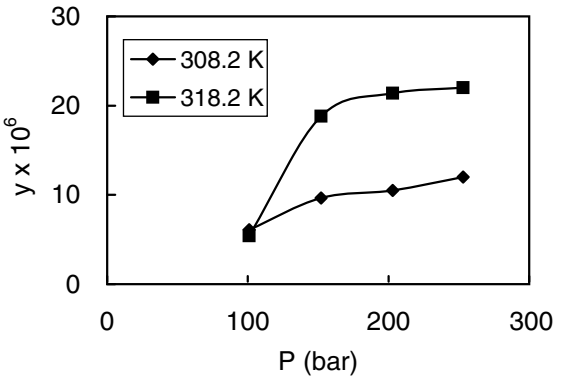
T (K)	P (bar)	y x 10^6
317.15	93.6	1400
335.25	116.9	1400
355.75	134.0	1400
313.95	88.5	2800
325.05	106.6	2800
334.85	120.7	2800
350.55	140.2	2800
366.85	149.4	2800
323.65	108.0	14800
328.45	119.7	14800
346.75	152.2	14800
365.05	176.5	14800
349.75	162.5	35800
354.25	170.0	35800
365.45	189.5	35800



Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

3,3',4',5,7-Pentahydroxyflavone ($C_{15}H_{10}O_7$; MW=302.24) **[P-39]**

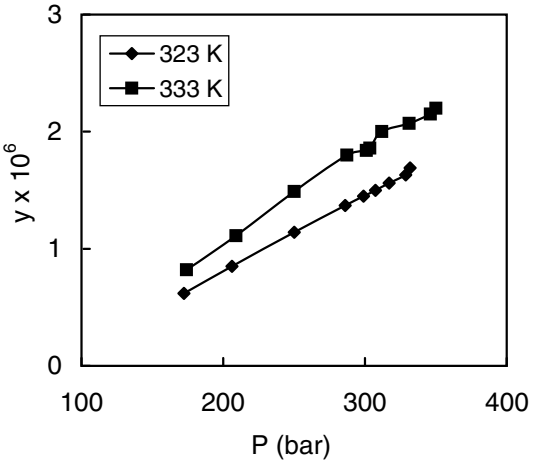
T (K)	P (bar)	y x 10^6
308.2	101	6.10
	152	9.65
	203	10.50
	253	12.00
318.2	101	5.42
	152	18.80
	203	21.40
	253	22.00



Synonym: Quercetin
Source: Matsuyama, K.; Mishima, K.; Ohdate, R.; Chidori, M.; Yang, H. *J. Chem. Eng. Data* (2003), 48(4), 1040-1043.

Perylene ($C_{20}H_{12}$; MW=252.31) **[P-40]**

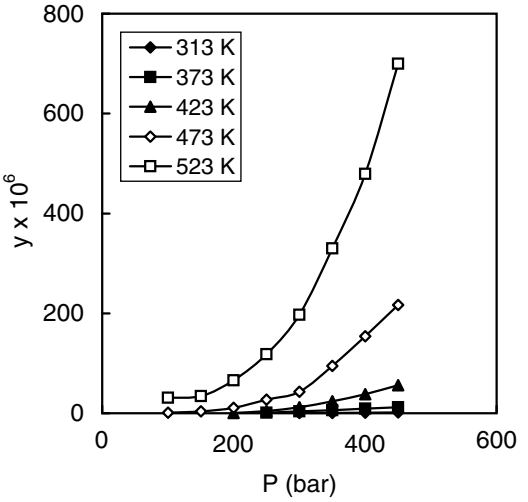
T (K)	P (bar)	y x 10^6
323	172.3	0.62
	206.1	0.85
	250.0	1.14
	286.1	1.37
	299.0	1.45
	307.4	1.50
	317.1	1.56
	328.7	1.63
	331.8	1.69
333	174.1	0.82
	209.0	1.11
	250.0	1.49
	287.3	1.80
	301.1	1.84
	303.4	1.86
	311.9	2.00
	331.2	2.07
	346.1	2.15
	350.0	2.20



Synonyms: α-Perylene; Dibenz[*de,kl*]anthracene
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 10(3), 175-189.

Perylene ($C_{20}H_{12}$; MW=252.31) **[P-41]**

T (K)	P (bar)	y x 10^6
313	300	0.33
	350	0.72
	400	0.93
	450	1.40
373	250	1.20
	300	3.60
	350	6.10
	400	9.00
	450	12.00
423	200	0.73
	250	4.60
	300	12.00
	350	24.00
	400	38.00
	450	56.00
473	100	1.10
	150	4.00
	200	11.00
	250	27.00
	300	43.00
	350	95.00
	400	154.00
	450	217.00
523	100	31.00
	150	34.40
	200	66.00
	250	118.00
	300	197.00
	350	330.00
	400	479.00
	450	700.00

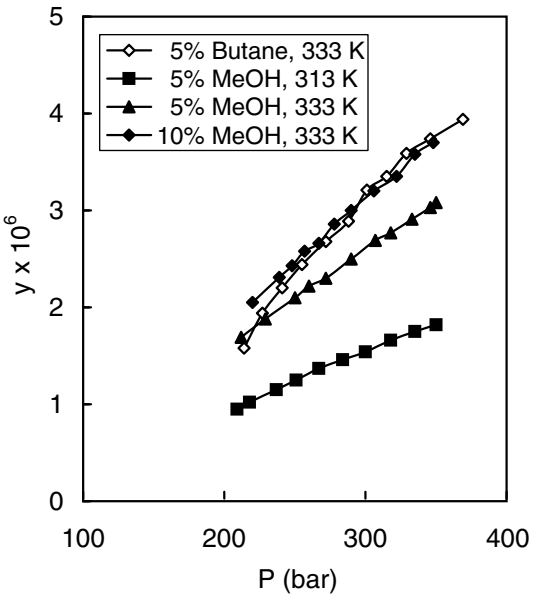


Synonyms: α-Perylene; Dibenz[*de,kl*]anthracene
Source: Miller, D. J.; Hawthorne, S. B.; Clifford, A. A.; Zhu, S. *J. Chem. Eng. Data* (1996), 41(4), 779-786.

Perylene ($C_{20}H_{12}$; MW=252.31) **[P-42]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		n-Butane	
333	214	5	1.58
	227	5	1.94
	241	5	2.20
	255	5	2.44
	272	5	2.68
	288	5	2.89
	301	5	3.21
	315	5	3.35
	329	5	3.59
	346	5	3.74
	369	5	3.94

		Methanol	
313	209	5	0.95
	218	5	1.02
	237	5	1.15
	251	5	1.25
	267	5	1.37
	284	5	1.46
	300	5	1.54
	318	5	1.66
	335	5	1.75
	350	5	1.82
333	212	5	1.69
	229	5	1.88
	250	5	2.10
	260	5	2.22
	272	5	2.30
	290	5	2.50
	307	5	2.69
	318	5	2.77
	333	5	2.91
	346	5	3.03
	350	5	3.08
333	220	10	2.05
	239	10	2.31
	248	10	2.43
	257	10	2.58
	267	10	2.66
	278	10	2.86
	290	10	3.00
	306	10	3.20
	322	10	3.35
	335	10	3.58
	348	10	3.70



Synonyms: α-Perylene; Dibenz[*de,kl*]anthracene
Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1997), 11(1,2), 37-51.

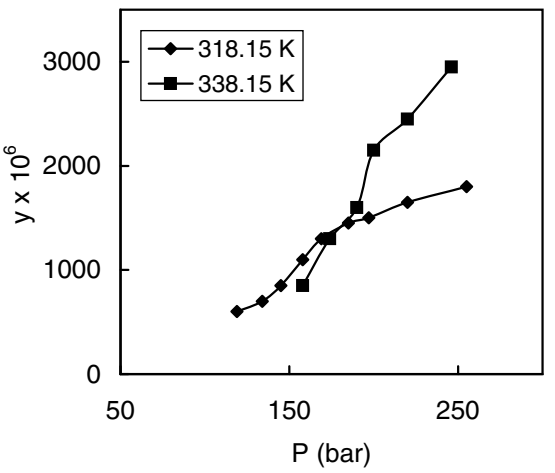
Pesticides **[P-43]**

T (K)	P (bar)	Compounds	Formula	MW	S[7] (g/L)	y[8] x 10^6
313.15	200	Linuron[1]	$C_9H_{10}Cl_2N_2O_2$	249.09	4.25	892
		Methoxychlor[2]	$C_{16}H_{15}Cl_3O_2$	345.65	3.80	575
		Diclofopmethyl[3]	$C_{16}H_{14}Cl_2O_4$	341.19	8.55	1309
		Diclofop[4]	$C_{15}H_{12}Cl_2O_4$	327.16	0.34	54
		2,4-D[5]	$C_{16}H_{12}Cl_4O_6$	221.04	0.43	102
		3,4-Dichloraniline[6]	$C_6H_5Cl_2N$	162.02	11.65	3747

1: 3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea.
2: 1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane.
3: Methyl 2-[4-(2,4-dichlorophenoxy)phenoxy]propanoate.
4: 2-[4-(2,4-Dichlorophenoxy)phenoxy]propanoic acid.
5: (2,4-Dichlorophenoxy)acetic acid.
6: 3,4-Dichlorobenzenamine.
7: The average of the two solubilities measured by two different methods.
8: Calculated from S.
Source: Schaefer, K.; Baumann, W. *Fresenius Z. Anal. Chem.* (1988), 332(2), 122-124.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-44]**

T (K)	P[1] (bar)	y[1] x 10^6
318.15	119	600
	134	700
	145	850
	158	1100
	169	1300
	185	1450
	197	1500
	220	1650
	255	1800
338.15	158	850
	174	1300
	190	1600
	200	2150
	220	2450
	246	2950

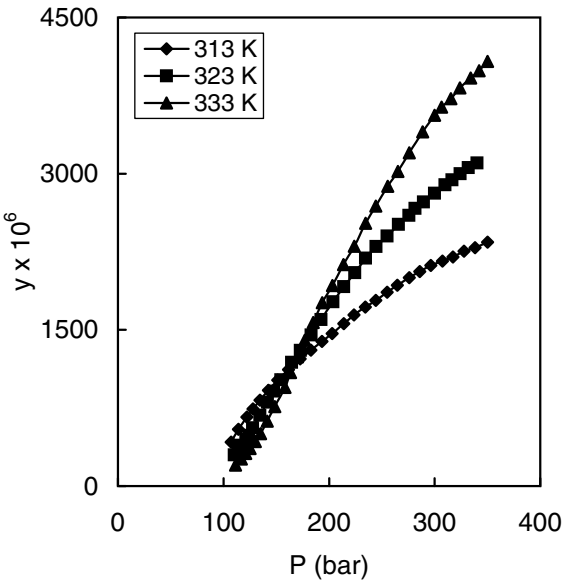


1: Obtained by digitizing the graph in the original article.
Source: Andrews, A. T.; Ahlert, R. C. *J. Env. Sci. Health, Part A: Toxic/Hazard. Subst. Environ. Eng.* (2001), A36(1), 89-100.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-45]**

T (K)	P (bar)	y x 10^6
313	107.1	423
	114.0	544
	122.2	662
	127.9	740
	134.6	825
	142.6	919
	151.4	1017
	161.6	1119
	172.6	1222
	182.7	1304
	193.3	1388
	203.0	1465
	213.9	1561
	223.6	1643
	234.4	1720
	244.3	1784
	254.9	1861
	264.6	1929
	275.9	2000
	285.8	2060
	296.3	2118
	307.3	2160
	317.3	2200
	327.7	2256
	338.2	2290
	350.0	2341
323	110.2	299
	113.9	340
	117.1	390
	121.3	446
	124.0	487
	127.7	560
	134.5	680
	141.7	805
	147.6	911
	154.5	1020
	164.5	1188
	172.9	1302
	183.0	1451
	192.4	1600
	203.8	1770
	213.8	1915
	224.3	2048
	234.7	2189

	244.6	2300
	254.9	2400
	265.7	2514
	275.6	2600
	281.5	2666
	289.4	2727
	300.0	2811
	309.9	2893
	316.5	2940
	324.2	3000
	332.0	3058
	340.3	3102
333	111.3	200
	117.0	259
	121.0	314
	125.2	360
	130.0	429
	135.0	503
	141.3	623
	148.6	762
	158.1	948
	163.5	1091
	170.0	1240
	177.1	1399
	185.0	1571
	193.6	1760
	203.3	1927
	213.6	2126
	223.9	2304
	234.5	2525
	244.2	2690
	255.6	2880
	265.3	3022
	275.9	3200
	288.6	3401
	300.0	3560
	306.6	3640
	315.3	3719
	323.8	3823
	334.2	3920
	342.0	3988
	350.0	4078

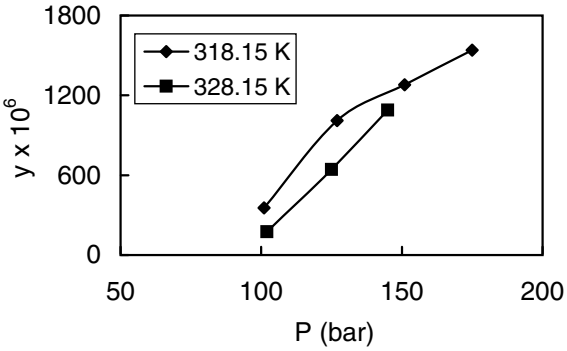


Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 10(3), 175-189.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-46]**

T (K)	P (bar)	y x 10^6
318.15	101	354
	127	1010
	151	1280
	175	1540
328.15	102	176
	125	643
	145	1090

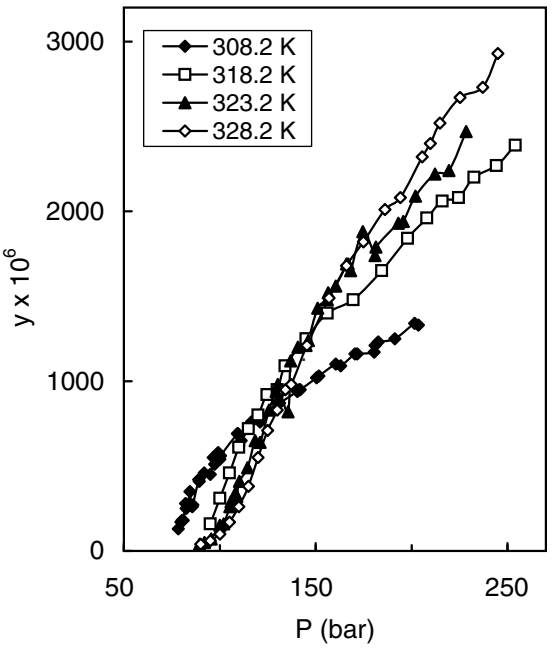
Source: Barna, L.; Blanchard, J-M.; Rauzy, E.; Berro, C. *J. Chem. Eng. Data* (1996), 41(6), 1466-1469.



Phenanthrene ($C_{14}H_{10}$; MW = 178.23) **[P-47]**

T (K)	P (bar)	y x 10^6
308.2	78.3	130
	79.8	170
	80.4	180
	80.9	180
	82.2	280
	82.5	250
	83.4	270
	84.4	350
	85.1	270
	85.6	260
	86.0	270
	89.0	420
	89.3	410
	91.8	460
	95.1	450
	96.6	550
	97.4	510
	99.1	580
	100.0	540
	100.3	560
	109.2	690
	109.5	690
	110.0	620
	111.2	650
	116.5	760
	119.5	790
	120.7	780
	121.0	760
	121.9	790

	130.0	870
	130.5	870
	131.2	870
	140.4	940
	141.4	950
	142.0	950
	150.5	1020
	151.7	1030
	160.5	1100
	163.0	1090
	170.4	1160
	171.7	1160
	180.5	1170
	181.0	1210
	182.6	1230
	191.2	1250
	201.6	1340
	203.5	1330
318.2	95.0	160
	100.0	310
	105.0	460
	110.0	610
	115.0	720
	120.0	800
	124.6	920
	130.0	950
	134.0	1090
	145.0	1250
	156.0	1400
	169.5	1480
	184.5	1650
	198.0	1840
	208.0	1960
	216.0	2060
	224.5	2080
	232.5	2200
	244.2	2270
	254.0	2390
323.2	89.4	40
	92.0	50
	95.5	70
	100.1	150
	102.0	160
	105.2	260
	105.9	290
	106.7	300
	108.1	340
	108.8	320
	110.2	410
	114.5	490



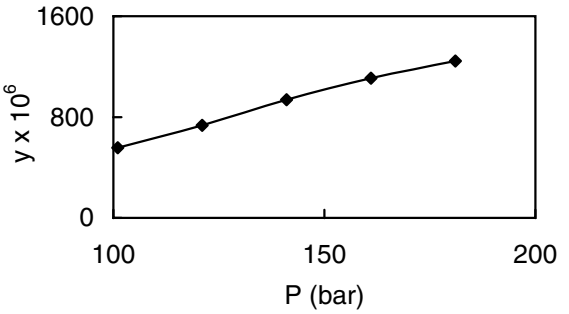
	118.5	650
	121.0	640
	125.7	830
	129.4	940
	130.3	980
	135.6	820
	151.0	1430
	156.0	1480
	156.5	1520
	160.5	1560
	166.0	1690
	167.0	1690
	168.2	1650
	174.6	1880
	181.0	1740
	181.4	1790
	193.0	1930
	195.6	1940
	202.0	2090
	212.2	2220
	219.5	2240
	228.5	2470
328.2	90.0	40
	95.0	60
	100.0	100
	105.0	170
	110.0	260
	115.0	380
	120.0	550
	125.0	710
	130.0	830
	134.2	950
	137.2	980
	145.5	1210
	157.0	1490
	166.1	1680
	174.8	1820
	186.1	2010
	194.2	2080
	205.5	2320
	209.8	2400
	214.7	2520
	225.2	2670
	237.0	2730
	245.0	2930

Source: Bartle, K. D.; Clifford, A. A.; Jafar, S. A. *J. Chem. Eng. Data* (1990), 35(3), 355-360.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-48]**

T (K)	P (bar)	y x 10^6
308.2	101	556
	121	734
	141	937
	161	1107
	181	1244

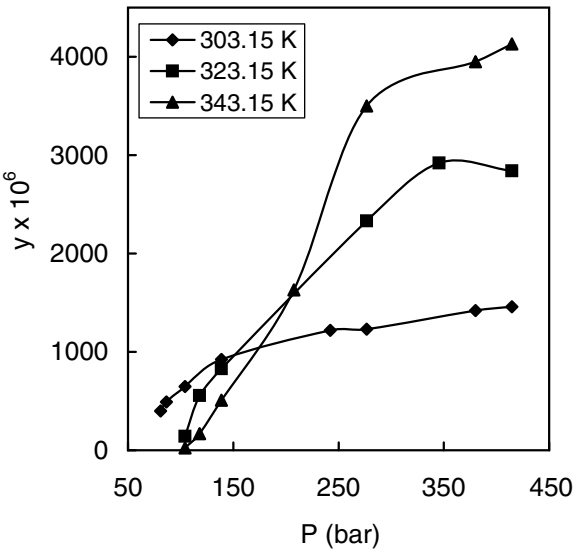
Source: Goodarznia, I.; Esmaeilzadeh, F. *J. Chem. Eng. Data* (2002), 47(2), 333-338.



Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-49]**

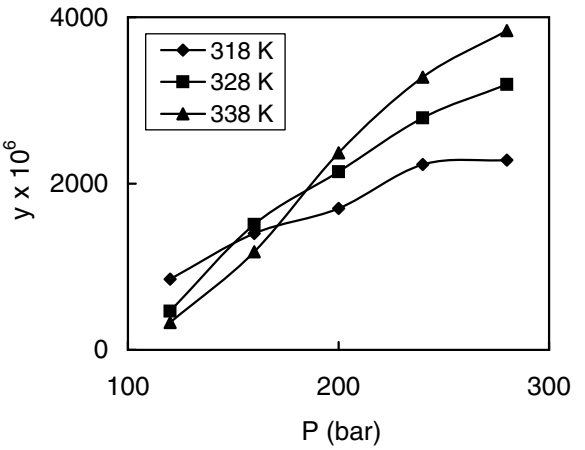
T (K)	P (bar)	y x 10^6
303.15	80.9	400
	86.4	491
	104.3	647
	138.8	922
	242.2	1220
	276.7	1230
	380.1	1420
	414.5	1460
323.15	104.3	141
	118.1	556
	138.8	829
	276.7	2330
	345.6	2920
	414.5	2840
343.15	104.3	23
	118.1	168
	138.8	509
	207.7	1630
	276.7	3500
	380.1	3950
	414.5	4130

Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.* (1982), 21(3), 191-197.



Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-50]**

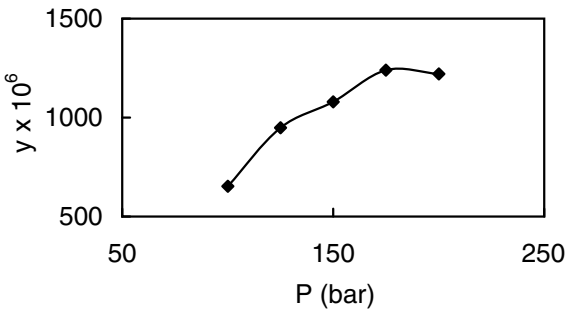
T (K)	P (bar)	y x 10^6
318	120	849
	160	1400
	200	1700
	240	2230
	280	2280
328	120	465
	160	1510
	200	2140
	240	2790
	280	3190
338	120	328
	160	1180
	200	2370
	240	3280
	280	3840



Source: Kurnik, R. T.; Holla, S. J.; Reid, R. C. *J. Chem. Eng. Data* (1981), 26(1), 47-51.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-51]**

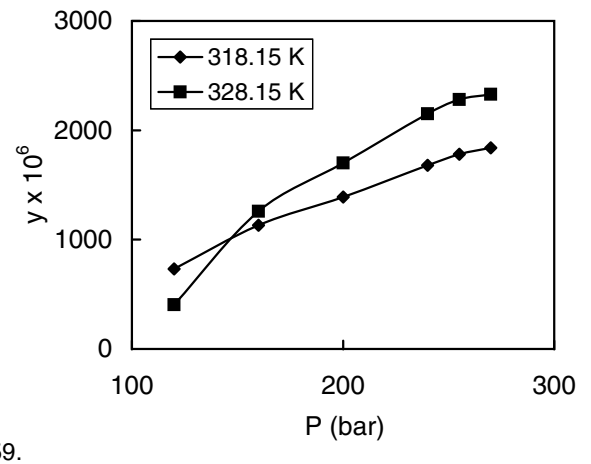
T (K)	P (bar)	y x 10^6
313.1	100	653
	125	949
	150	1080
	175	1240
	200	1220



Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-52]**

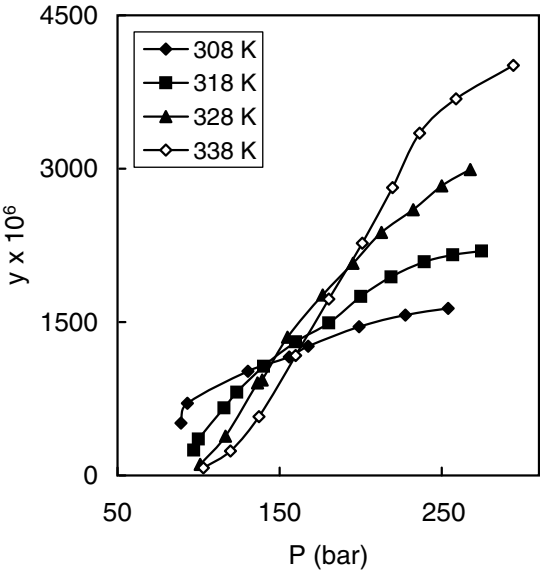
T (K)	P (bar)	y x 10^6
318.15	120	732
	160	1130
	200	1390
	240	1680
	255	1780
	270	1840
328.15	120	404
	160	1260
	200	1700
	240	2150
	255	2280
	270	2330



Source: Lee, L.-s.; Huang, J.-f.; Zhu, O.-x. *J. Chem. Eng. Data* (2001), 46(5), 1156-1159.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-53]**

T (K)	P (bar)	y x 10^6
308	89.2	512
	93.1	707
	130.4	1018
	155.9	1158
	167.7	1263
	199.1	1454
	227.5	1569
	254.0	1634
318	97.1	247
	100.0	356
	115.7	660
	123.6	815
	140.2	1067
	159.8	1306
	180.4	1492
	200.1	1750
	218.7	1942
	239.3	2088
	256.9	2157
	274.6	2194
328	101.0	107
	116.7	383
	136.3	904
	139.3	934
	154.9	1352
	176.5	1764
	195.2	2076
	212.8	2377
	232.4	2599
	250.1	2831
	267.7	2991
338	103.0	74
	119.6	238
	137.3	576
	159.8	1172
	180.4	1724
	201.0	2272
	219.7	2814
	236.3	3347
	258.9	3683
	294.2	4011

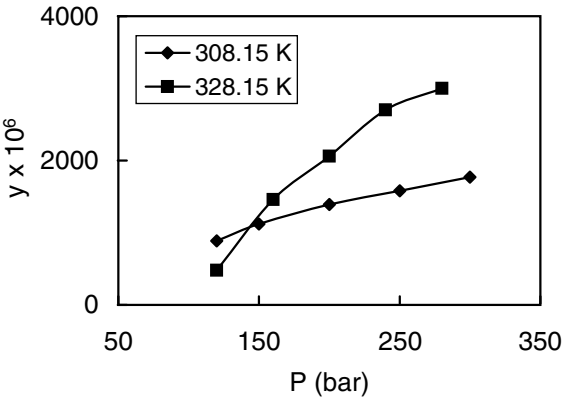


Source: Sako, T.; Yamane, S.; Negishi, A.; Sato, M. *Sekiyu Gakkaishi* (1994), 37(3), 321-327.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-54]**

T (K)	P (bar)	y x 10^6
308.15	120	887
	150	1120
	200	1390
	250	1580
	300	1770
328.15	120	479
	160	1460
	200	2060
	240	2700
	280	3000

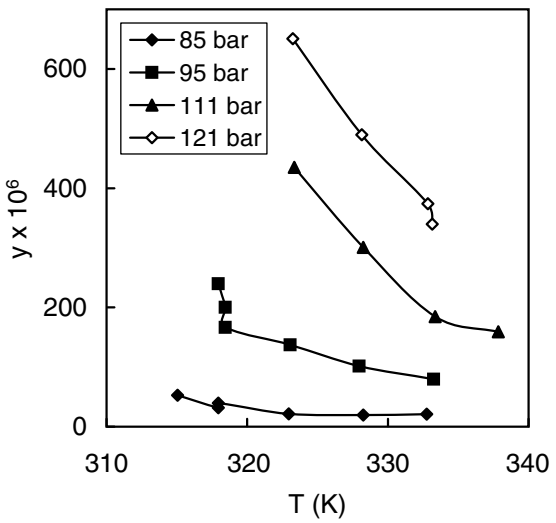
Source: Sane, A.; Taylor, S.; Sun, Y.-P.; Thies, M. C. *J. Supercrit. Fluids* (2004), 28(2-3), 277-285.



Phenanthrene($C_{14}H_{10}$; MW=178.23) **[P-55]**

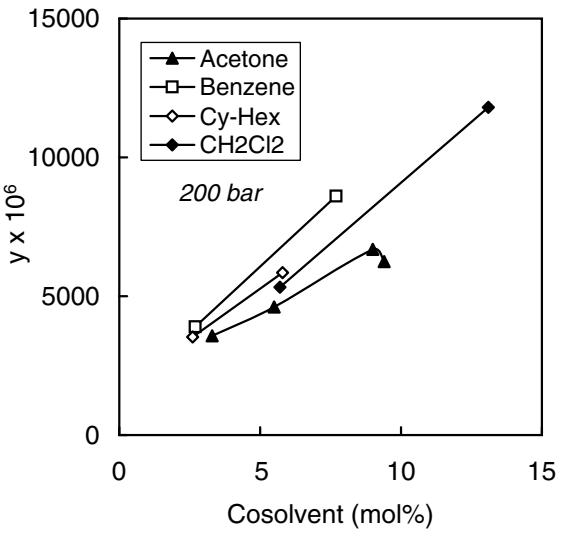
P (bar)	T (K)	y x 10^6
85.0	315.05	52.5
	317.95	31.6
	317.95	39.4
	322.95	21.6
	328.25	19.5
	332.75	21.2
95.0	317.95	239.5
	318.45	200.0
	318.45	166.7
	323.05	137.4
	327.95	101.7
	333.25	79.8
111.0	323.35	435.0
	328.25	300.8
	333.35	184.4
	337.85	159.2
121.0	323.25	650.5
	328.15	489.4
	332.85	374.0
	333.15	339.9

Source: Zhao, S.; Wang, R.; Yang, G. *J. Supercrit. Fluids* (1995), 8(1), 15-19.



Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-56]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
		Acetone	
328.15	200.5	3.3	3570
	200.5	5.5	4610
	200.5	9.0	6690
	200.5	9.4	6250
		Benzene	
	111.0	4.0	1490
	111.0	9.4	1910
	140.0	8.8	4970
	140.5	3.7	2590
	201.0	2.7	3900
	201.0	7.7	8610
	305.0	1.7	4410
		Cyclohexane	
	202.0	2.6	3530
	202.0	5.8	5850
		Methylene Chloride	
	202.0	5.7	5320
	202.0	13.1	11800

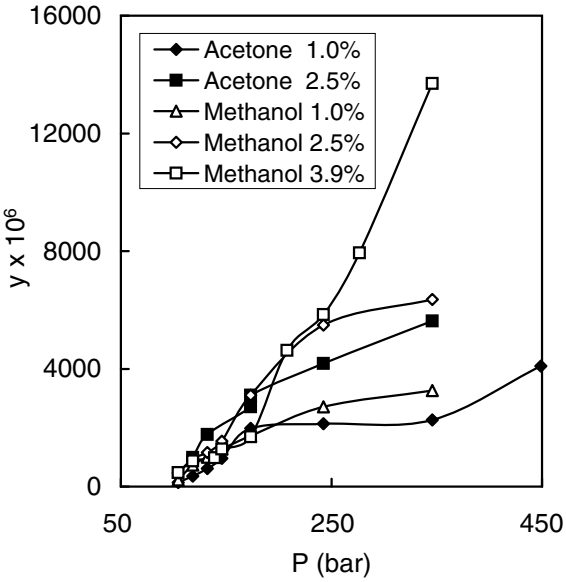


Source: Schmitt, W. J.; Reid, R. C. *Fluid Phase Equil.* (1986), 32(1), 77-99.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-57]**

T (K)	P (bar)	Cosolvent[1)] (mol %)	y x 10^6
		Acetone	
323	104.4	1.0	142
	118.2	1.0	358
	132.0	1.0	613
	145.8	1.0	964
	173.3	1.0	1980
	242.3	1.0	2140
	345.7	1.0	2260
	449.0	1.0	4090
	118.2	2.5	991
	132.0	2.5	1770
	173.3	2.5	2710
	173.3	2.5	3110
	242.3	2.5	4180
	345.7	2.5	5630

		Methanol	
323	104.4	1.0	224
	118.2	1.0	730
	132.0	1.0	1000
	145.8	1.0	1280
	173.3	1.0	1720
	242.3	1.0	2710
	345.7	1.0	3260
	104.4	2.5	462
	118.2	2.5	948
	132.0	2.5	1160
	145.8	2.5	1540
	173.3	2.5	3110
	242.3	2.5	5490
	345.7	2.5	6360
	104.4	3.9	474
	118.2	3.9	874
	138.9	3.9	983
	145.8	3.9	1280
	173.3	3.9	1690
	207.8	3.9	4630
	242.3	3.9	5840
	276.7	3.9	7940
	345.7	3.9	13700

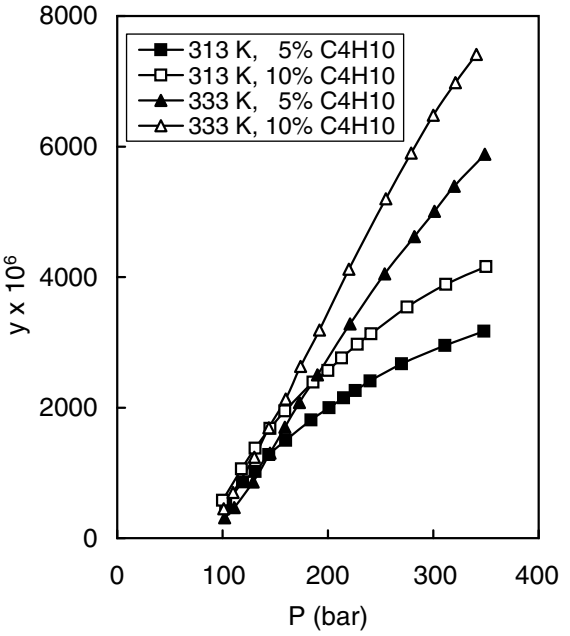


1: Cosolvent in CO_2 on a solute-free basis.
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-58]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	103	5	510
	119	5	860
	131	5	1020
	144	5	1280
	160	5	1500
	184	5	1810
	201	5	2000
	215	5	2150
	226	5	2260
	240	5	2410
	270	5	2670
	311	5	2950
	348	5	3170

313	100	10	580
	118	10	1060
	131	10	1380
	145	10	1680
	159	10	1950
	186	10	2390
	200	10	2570
	213	10	2760
	228	10	2970
	241	10	3130
	275	10	3540
	312	10	3890
	350	10	4160
333	102	5	310
	111	5	470
	129	5	860
	145	5	1300
	159	5	1700
	173	5	2080
	190	5	2500
	221	5	3280
	254	5	4050
	282	5	4620
	301	5	5010
	320	5	5390
	349	5	5880
333	101	10	450
	110	10	700
	130	10	1240
	144	10	1690
	160	10	2130
	174	10	2630
	192	10	3190
	220	10	4120
	255	10	5200
	279	10	5900
	300	10	6480
	321	10	6980
	341	10	7410

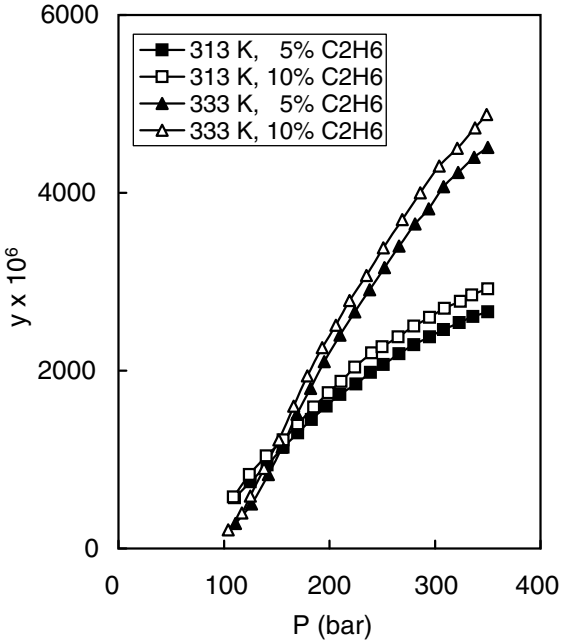


1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 11(1,2), 37-51.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-59]**

T (K)	P (bar)	Ethane[1)] (mol%)	y x 10^6
313	110	5	570
	125	5	750
	141	5	940
	156	5	1140
	170	5	1300
	183	5	1450
	197	5	1600
	210	5	1730
	225	5	1850
	239	5	1980
	251	5	2070
	266	5	2190
	280	5	2290
	295	5	2380
	308	5	2460
	323	5	2540
	336	5	2610
	350	5	2660
313	109	10	580
	124	10	830
	140	10	1040
	156	10	1220
	170	10	1400
	185	10	1590
	199	10	1750
	211	10	1880
	224	10	2040
	240	10	2200
	250	10	2270
	265	10	2380
	280	10	2500
	295	10	2600
	309	10	2700
	324	10	2780
	335	10	2850
	350	10	2920



333	111	5	280
	126	5	500
	142	5	830
	155	5	1140
	169	5	1510
	182	5	1800
	195	5	2100
	210	5	2400
	224	5	2660
	238	5	2910
	252	5	3160
	266	5	3400
	281	5	3650
	294	5	3820
	308	5	4070
	322	5	4230
	337	5	4400
	350	5	4510
333	104	10	210
	117	10	400
	125	10	590
	138	10	900
	152	10	1220
	166	10	1600
	179	10	1940
	193	10	2260
	206	10	2510
	219	10	2790
	235	10	3070
	251	10	3380
	269	10	3700
	286	10	4000
	304	10	4300
	321	10	4500
	338	10	4730
	349	10	4880

1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 11(1,2), 37-51.

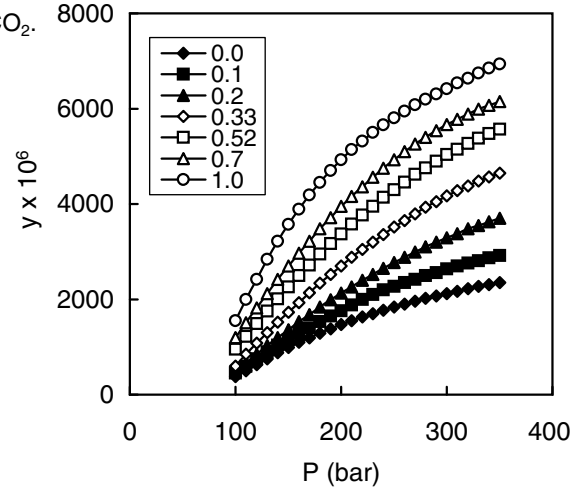
Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-60]**

P (bar)	$y^{1)} \times 10^6$ Ethane$^{2)}$						
	0.00	0.10	0.20	0.33	0.52	0.70	1.00
100	380	450	500	600	950	1200	1550
110	500	590	670	850	1220	1510	2000
120	630	750	850	1080	1490	1820	2420
130	750	900	1030	1300	1750	2120	2840
140	880	1040	1200	1520	2010	2420	3220
150	990	1150	1360	1730	2260	2700	3570
160	1100	1280	1530	1930	2500	2970	3890
170	1190	1400	1680	2140	2720	3220	4190
180	1290	1530	1840	2340	2950	3480	4450
190	1380	1650	1990	2520	3170	3710	4700
200	1470	1760	2130	2700	3370	3950	4930
210	1550	1880	2260	2880	3580	4160	5140
220	1630	2000	2400	3050	3770	4360	5320
230	1700	2100	2520	3200	3950	4560	5500
240	1770	2200	2650	3360	4140	4750	5660
250	1840	2270	2770	3520	4300	4930	5810
260	1900	2350	2880	3650	4460	5100	5950
270	1960	2420	2990	3790	4620	5260	6080
280	2020	2500	3100	3930	4760	5400	6200
290	2070	2560	3200	4050	4900	5540	6310
300	2120	2640	3290	4170	5040	5670	6420
310	2170	2700	3380	4280	5150	5780	6540
320	2220	2760	3480	4380	5270	5890	6640
330	2270	2810	3550	4480	5380	5990	6750
340	2310	2870	3630	4570	5480	6070	6850
350	2350	2920	3700	4650	5570	6150	6940

1: The temperature of the system is 313 K.

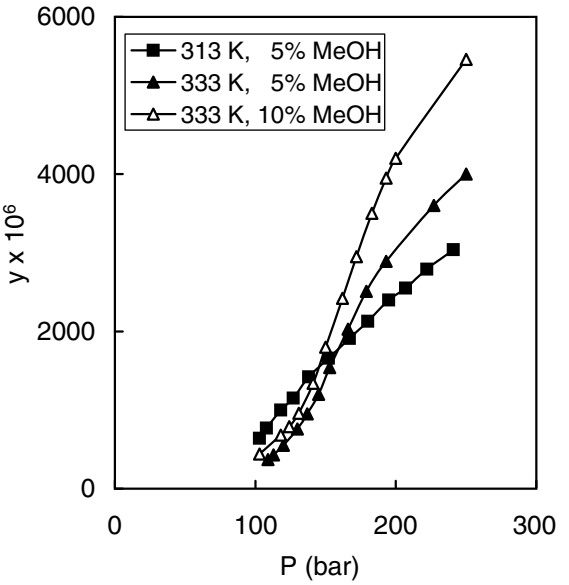
2: Cosolvent expressed in mole fraction in CO_2.

Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1997),11(1,2), 37-51.



Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-61]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	103	5	640
	108	5	770
	118	5	1000
	127	5	1150
	138	5	1420
	152	5	1660
	167	5	1910
	180	5	2130
	195	5	2400
	207	5	2550
	222	5	2790
	241	5	3040
333	109	5	370
	113	5	430
	120	5	550
	130	5	760
	137	5	950
	145	5	1200
	153	5	1540
	166	5	2030
	179	5	2510
	193	5	2890
	227	5	3600
	250	5	4000
333	103	10	440
	118	10	680
	124	10	790
	131	10	960
	141	10	1340
	150	10	1800
	162	10	2420
	172	10	2950
	183	10	3500
	193	10	3950
	200	10	4200
	250	10	5460

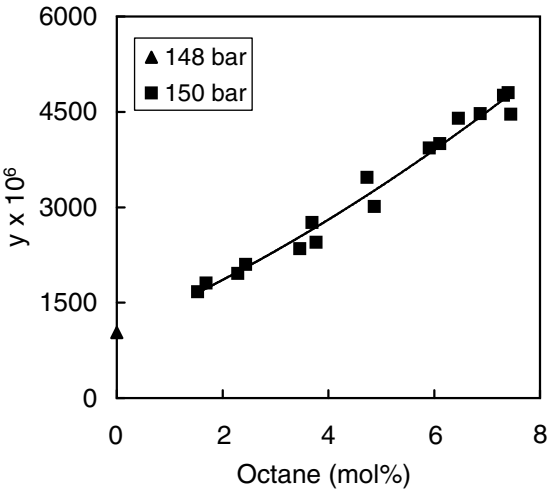


1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-62]**

T (K)	P (bar)	*n*-Octane[1)] (mol%)	y x 10^6
308.2	148	0.00	1030
	150	1.53	1670
		1.69	1810
		2.29	1960
		2.44	2100
		3.46	2350
		3.69	2760
		3.77	2450
		4.73	3470
		4.87	3010
		5.91	3930
		6.11	4000
		6.46	4400
		6.87	4470
		7.31	4760
		7.40	4800
		7.45	4460



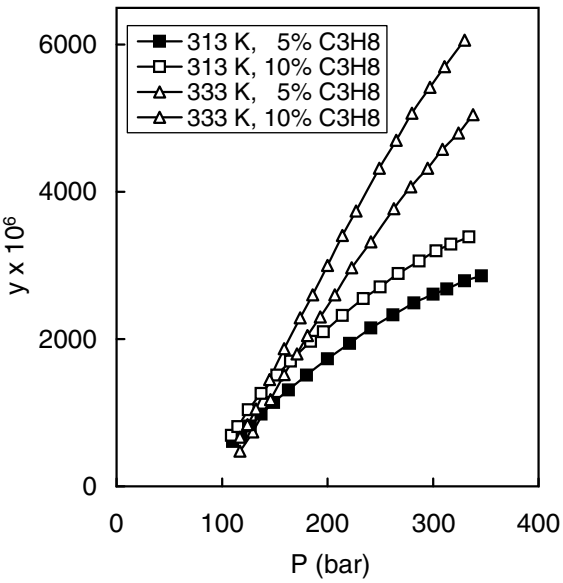
1: Cosolvent in CO_2.

Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-63]**

T (K)	P (bar)	Propane[1)] (mol%)	y x 10^6
313	110	5	610
	118	5	700
	127	5	820
	137	5	980
	149	5	1140
	163	5	1310
	180	5	1510
	200	5	1730
	221	5	1940
	241	5	2150
	262	5	2330
	282	5	2490
	300	5	2610
	313	5	2680
	330	5	2790
	346	5	2860
313	109	10	690
	115	10	810
	125	10	1040
	137	10	1260
	152	10	1510

	165	10	1700
	184	10	1970
	196	10	2100
	214	10	2320
	234	10	2550
	250	10	2710
	267	10	2890
	287	10	3060
	303	10	3200
	317	10	3290
	334	10	3390
333	117	5	480
	129	5	740
	146	5	1180
	159	5	1520
	171	5	1800
	181	5	2050
	193	5	2300
	207	5	2600
	223	5	2970
	241	5	3320
	263	5	3770
	279	5	4070
	295	5	4320
	309	5	4580
	324	5	4800
	338	5	5050
333	117	10	670
	124	10	840
	132	10	1050
	145	10	1450
	159	10	1870
	174	10	2290
	186	10	2600
	200	10	3000
	214	10	3410
	227	10	3740
	249	10	4320
	265	10	4700
	280	10	5070
	297	10	5420
	311	10	5700
	330	10	6060

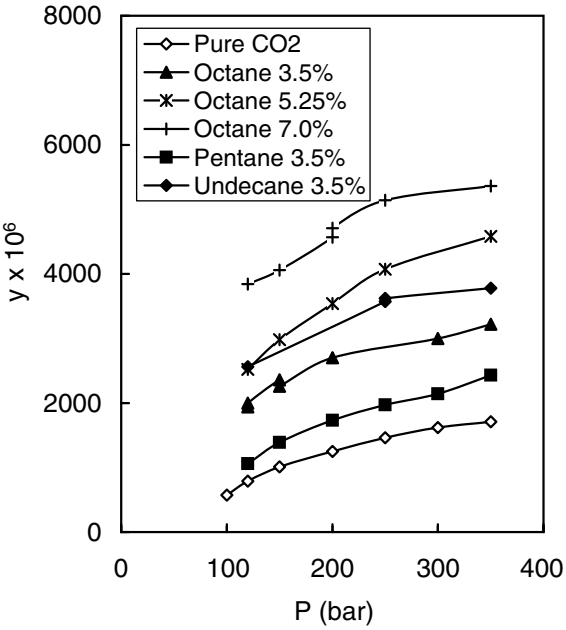


1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 11(1,2), 37-51.

Phenanthrene ($C_{14}H_{10}$; MW=178.23) **[P-64]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308	100	0.0	571
	120	0.0	787
	150	0.0	1010
	200	0.0	1250
	250	0.0	1460
	300	0.0	1620
	350	0.0	1710
		n-Octane	
	120	3.5	1940
	120	3.5	2000
	150	3.5	2360
	150	3.5	2260
	200	3.5	2700
	300	3.5	3000
	350	3.5	3220
	120	5.25	2520
	150	5.25	2980
	200	5.25	3540
	250	5.25	4070
	350	5.25	4580
	120	7.0	3840
	150	7.0	4060
	200	7.0	4570
	200	7.0	4710
	250	7.0	5140
	350	7.0	5360
		n-Pentane	
	120	3.5	1060
	150	3.5	1390
	200	3.5	1730
	250	3.5	1970
	300	3.5	2140
	350	3.5	2430
		Undecane	
	120	3.5	2560
	250	3.5	3570
	250	3.5	3620
	350	3.5	3780

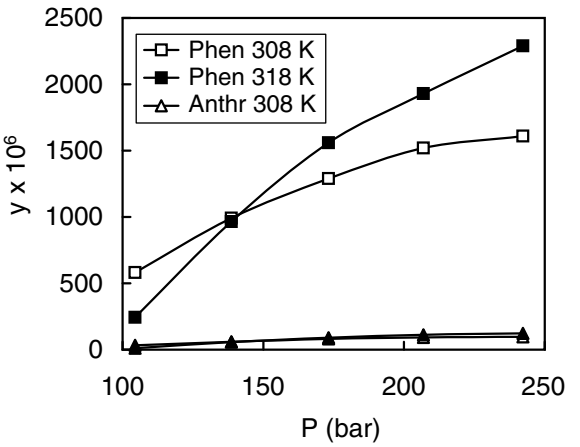


Source: Dobbs, J. M.; Wong, J.; Johnston, K. P. *J. Chem. Eng. Data* (1986), 31(3), 303-308.

Phenanthrene (1) + Anthracene (2) Mixture **[P-65]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	104.4	581	32.4
	138.7	991	59.9
	173.2	1290	81.1
	206.9	1520	92.3
	242.2	1610	96.0
318	104.4	243	12.0
	138.7	965	57.8
	173.2	1560	90.1
	206.9	1930	112.1
	242.2	2290	122.8

Source: Kosal, E.; Holder, G. D. *J. Chem. Eng. Data* (1987), 32(2), 148-150.

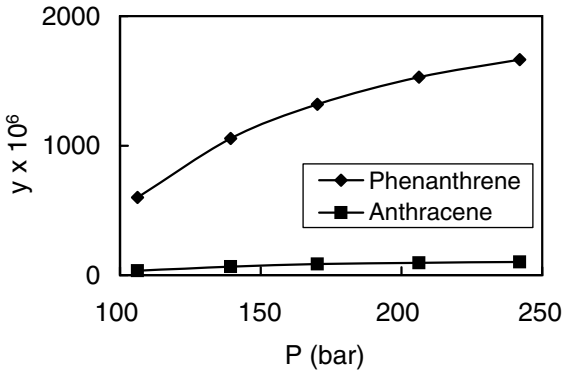


Phenanthrene (1) + Anthracene (2) Mixture **[P-66]**

T (K)	P (bar)	$y_1^{1)} \times 10^6$	$y_2^{1)} \times 10^6$
308.15	106.2	600	32.76
	139.3	1056	66.01
	170.1	1318	85.30
	206.2	1529	93.97
	242.0	1665	101.90

1: Solubility was obtained from a mixture of phenanthrene and anthracene.

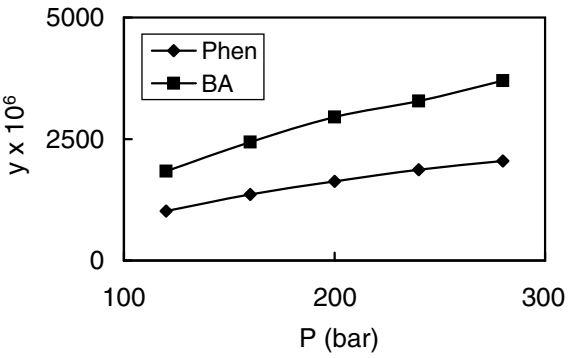
Source: Liu, G.-T.; Nagahama, K. *J. Chem. Eng. Japan* (1997), 30(2), 293-301.



Phenanthrene (1) + Benzoic acid (2) Mixture **[P-67]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	120	1020	1840
	160	1360	2440
	200	1630	2950
	240	1870	3280
	280	2050	3700

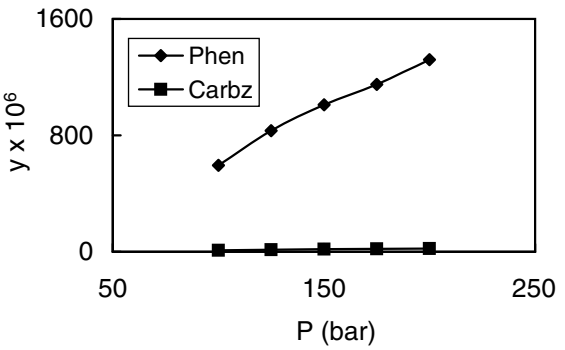
Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.



Phenanthrene (1) + Carbazole (2) Mixture **[P-68]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
313.1	100	595	11.0
	125	832	14.8
	150	1010	17.6
	175	1150	19.9
	200	1320	22.1

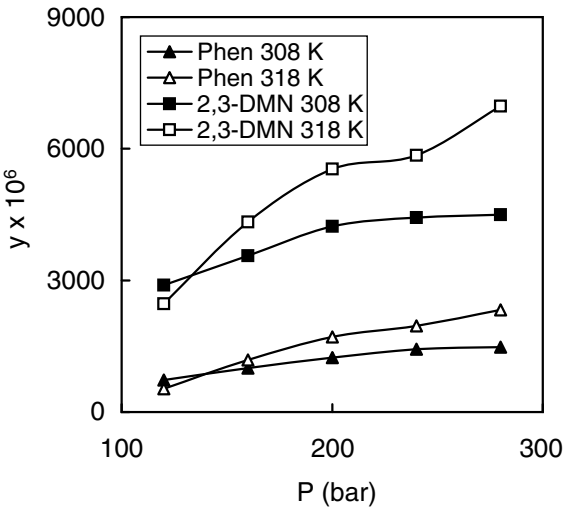
Source: Kwiatkowski, J.; Lisicki, Z.; Majewski, W. *Ber. Bunsenges. Phys. Chem.* (1984), 88(9), 865-869.



Phenanthrene (1) + 2,3-Dimethylnaphthalene (2) Mixture **[P-69]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	120	730	2890
	160	1000	3560
	200	1240	4230
	240	1430	4430
	280	1480	4500
318	120	530	2470
	160	1190	4330
	200	1710	5540
	240	1960	5850
	280	2330	6970

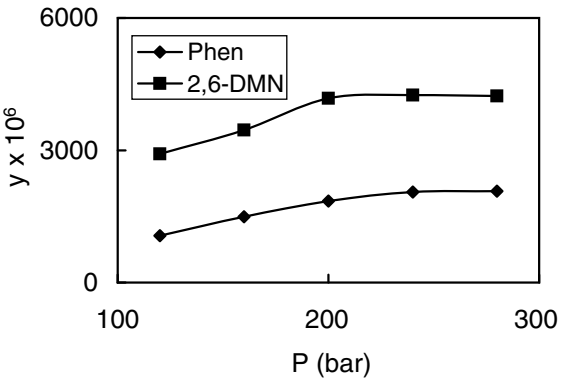
Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.



Phenanthrene(1) + 2,6-Dimethylnaphthalene(2) Mixture **[P-70]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	120	1060	2920
	160	1490	3460
	200	1850	4180
	240	2050	4250
	280	2070	4230

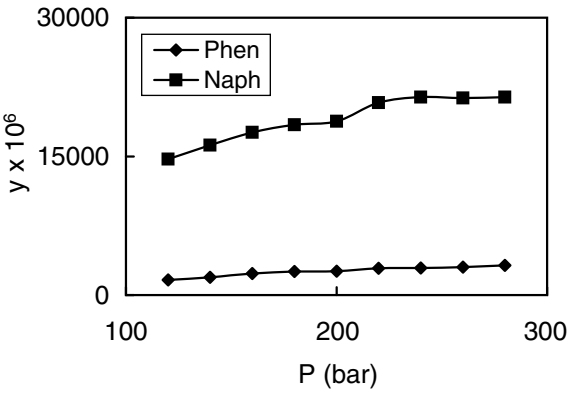
Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.



Phenanthrene (1) + Naphthalene (2) Mixture **[P-71]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308	120	1650	14700
	140	1920	16200
	160	2320	17600
	180	2540	18400
	200	2590	18800
	220	2900	20800
	240	2930	21400
	260	3010	21300
	280	3210	21400

Source: Kurnik, R. T.; Reid, R. C. *Fluid Phase Equil.* (1982), 8(1), 93-105.

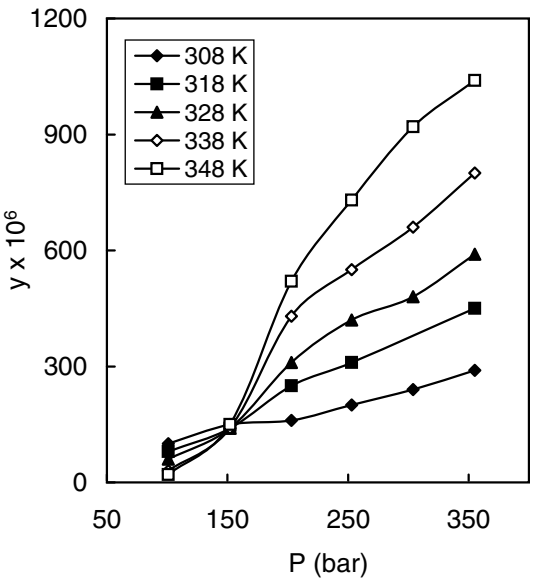


1,10-Phenanthroline ($C_{12}H_8N_2$; MW=180.21) **[P-72]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	101	0.3	100
	152	0.5	150
	203	0.6	160
	253	0.7	200
	304	0.9	240
	355	1.2	290
318	101	0.2	80
	152	0.4	140
	203	0.8	250
	253	1.1	310
	355	1.7	450
328	101	0.1	60
	152	0.4	140
	203	1.0	310
	253	1.4	420
	304	1.7	480
	355	2.1	590
338	101	0.0	30
	152	0.3	140
	203	1.2	430
	253	1.7	550
	304	2.2	660
	355	2.8	800
348	101	0.0	20
	152	0.3	150
	203	1.3	520
	253	2.2	730
	304	2.9	920
	355	3.5	1040

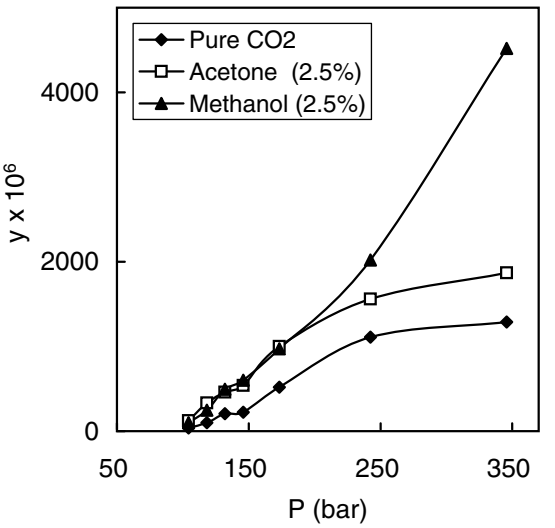
Synonym: 4,5-Diazaphenanthrene

Source: Shamsipur, M.; Ghiasvand, A. R.; Yamini, Y. *J. Chem. Eng. Data* (2004), 49(5), 1483-1486.



Phenazine ($C_{12}H_8N_2$; MW=180.21) **[P-73]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
323	104.4	0	37
	118.2	0	101
	132.0	0	207
	145.8	0	225
	173.3	0	519
	242.3	0	1110
	345.7	0	1290
		Acetone	
	104.4	2.5	124
	118.2	2.5	333
	132.0	2.5	459
	145.8	2.5	541
	173.3	2.5	1000
	242.3	2.5	1560
	345.7	2.5	1870
		Methanol	
	104.4	2.5	100
	118.2	2.5	249
	132.0	2.5	495
	145.8	2.5	601
	173.3	2.5	972
	242.3	2.5	2020
	345.7	2.5	4520



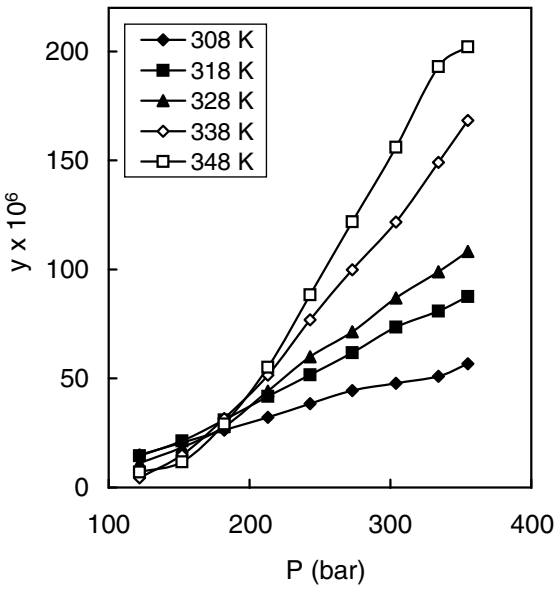
1: Cosolvent in CO_2 on a solute-free basis.

Synonyms: 9,10-Diazaanthracene; Dibenzopyrazine
Source: Van Alsten, J. G.; Eckert, C. A. *J. Chem. Eng. Data* (1993), 38(4), 605-610.

Phenazopyridine ($C_{11}H_{11}N_5$; MW=213.24) **[P-74]**

T (K)	P (bar)	y x 10^6
308	122	15.0
	152	20.5
	182	26.3
	213	32.2
	243	38.4
	273	44.4
	304	47.8
	334	51.0
	355	56.8
318	122	14.5
	152	21.3
	182	31.0
	213	41.8
	243	51.6
	273	61.8

	304	73.6
	334	80.9
	355	87.6
328	122	11.2
	152	18.4
	182	27.9
	213	44.2
	243	59.9
	273	71.4
	304	86.9
	334	98.9
	355	108.2
338	122	4.4
	152	14.9
	182	31.6
	213	51.5
	243	76.9
	273	99.9
	304	121.8
	334	149.1
	355	168.4
348	122	7.1
	152	11.8
	182	29.1
	213	55.2
	243	88.4
	273	121.9
	304	156.1
	334	193.1
	355	202.1

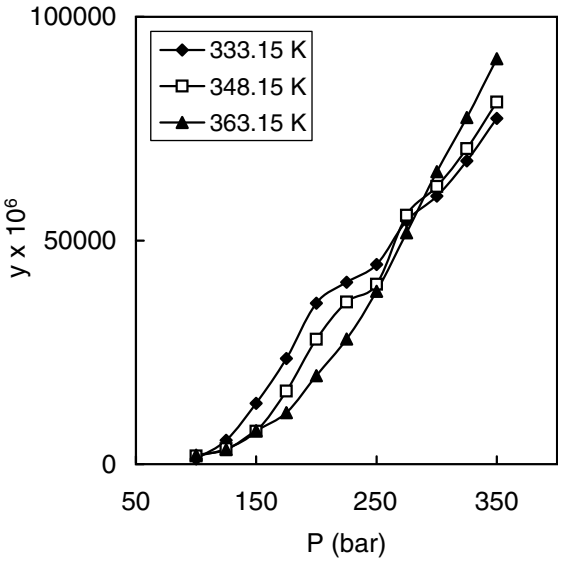


Synonym: 2,6-Diamino-3-phenylazopyridine
Source: Yamini, Y.; Arab, J.; Asghari-Khiavi, M. *J. Pharm. Biomed. Anal.* (2003), 32(1), 181-187.

Phenol (C_6H_6O; MW=94.11) **[P-75]**

T (K)	P (bar)	y x 10^6
333.15	100	1140
	125	5340
	150	13600
	175	23600
	200	36000
	225	40650
	250	44620
	275	54380
	300	59900
	325	67820
	350	77300

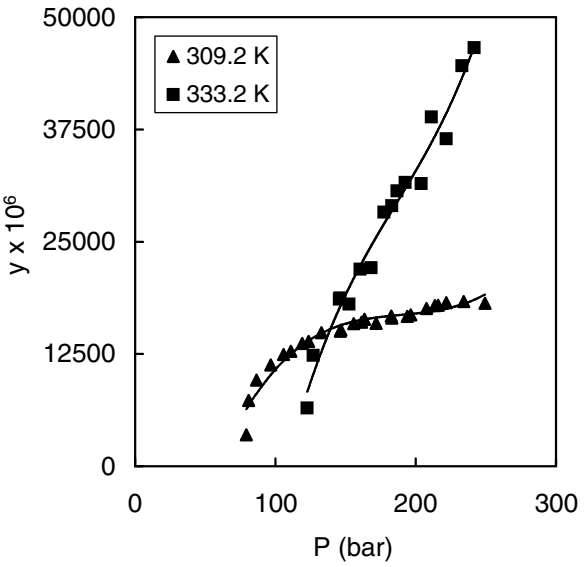
348.15	100	1840
	125	3460
	150	7350
	175	16310
	200	27920
	225	36270
	250	40200
	275	55650
	300	62100
	325	70500
	350	80910
363.15	100	2040
	125	3250
	150	7490
	175	11530
	200	19790
	225	27990
	250	38660
	275	51710
	300	65390
	325	77490
	350	90640



Source: Julian, G.-G.; Molina, M. J.; Rodriguez, F.; Mirada, F. *J. Chem. Eng. Data* (2001), 46(4), 918-921.

Phenol (C_6H_6O; MW=94.11) **[P-76]**

T (K)	P (bar)	y x 10^6
309.15	79.3	3488
	80.9	7314
	86.5	9581
	96.8	11270
	105.8	12430
	111.0	12800
	119.1	13670
	123.6	13900
	132.8	14860
	146.3	15020
	146.7	15150
	155.7	15890
	161.5	16040
	163.4	16360
	171.7	15900
	182.6	16710
	183.0	16510
	193.9	16700
	196.4	16860
	207.6	17550
	213.7	17880
	215.9	17930

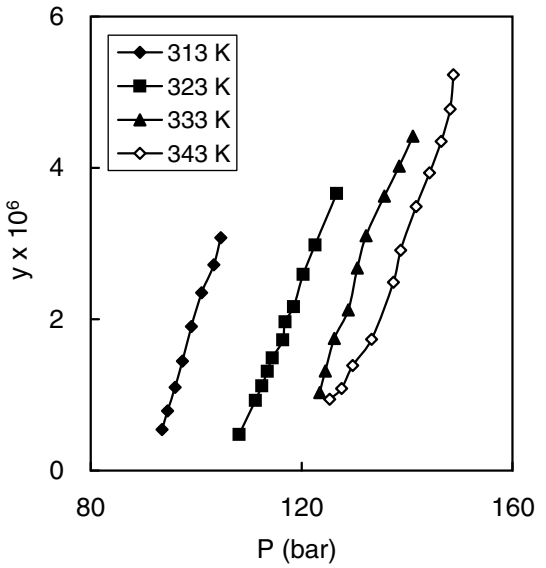


	221.7	18220
	234.2	18340
	249.4	18160
333.15	122.7	6496
	127.0	12330
	145.7	18590
	146.1	18720
	152.6	18040
	160.3	21950
	168.3	22090
	177.5	28300
	183.0	29010
	186.8	30650
	192.5	31580
	204.0	31460
	211.1	38900
	221.8	36440
	232.9	44600
	241.8	46600

Source: Van Leer, R. A.; Paulaitis, M. E. *J. Chem. Eng. Data* (1980), 25(3), 257-259.

Phenol Blue ($C_{14}H_{14}N_2O$; MW=226.27) **[P-77]**

T (K)	P (bar)	S x 10^3 (g/L)	$y^{1)}$ x 10^6
313	93.5	1.59	0.54
	94.6	2.37	0.79
	96.0	3.40	1.10
	97.4	4.58	1.45
	99.1	6.16	1.90
	101.0	7.77	2.35
	103.4	9.18	2.72
	104.7	10.52	3.08
323	108.2	1.20	0.48
	111.3	2.49	0.93
	112.5	3.09	1.12
	113.5	3.67	1.31
	114.4	4.23	1.49
	116.4	5.04	1.73
	116.9	5.77	1.97
	118.5	6.48	2.17
	120.3	7.92	2.59
	122.6	9.30	2.98
	126.6	11.81	3.66
333	123.4	2.48	1.03
	124.5	3.21	1.31
	126.2	4.37	1.75
	128.9	5.52	2.12
	130.6	7.09	2.68

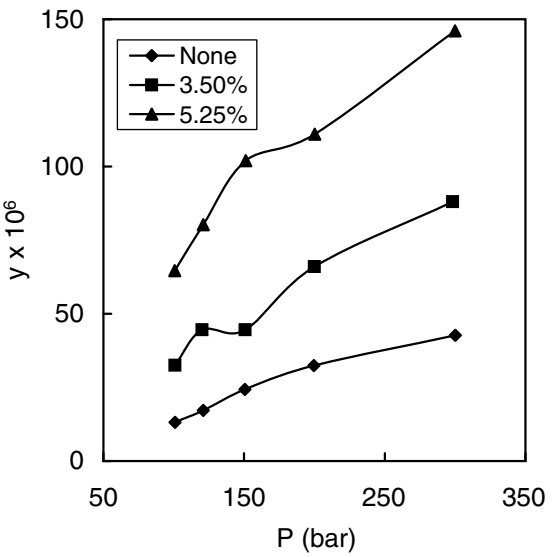


	132.2	8.39	3.10
	135.7	10.18	3.63
	138.5	11.58	4.02
	141.1	13.01	4.42
343	125.4	1.84	0.94
	127.6	2.19	1.09
	129.7	2.89	1.39
	133.3	3.79	1.73
	137.4	5.73	2.49
	138.8	6.83	2.91
	141.7	8.44	3.49
	144.3	9.80	3.93
	146.5	11.07	4.35
	148.2	12.36	4.78
	148.8	13.61	5.23

1: Obtained by digitizing the graph in the original article.
Synonym: *N*,*N*-Dimethylindoaniline
Source: Sasaki, T.; Takeishi, H.; Yoshida, Z. *J. Supercrit. Fluids* (1999), 15, 23-31.

Phenol Blue ($C_{14}H_{14}N_2O$; MW=226.27) **[P-78]**

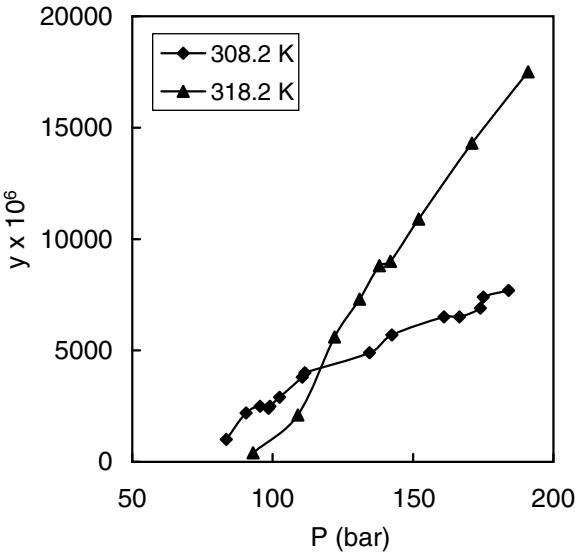
T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.15	100.8	0.0	13.1
	121.0	0.0	17.2
	150.5	0.0	24.3
	199.6	0.0	32.4
	300.2	0.0	42.7
		Acetone	
	100.8	3.5	32.5
	120.1	3.5	44.6
	150.7	3.5	44.6
	200.0	3.5	66.0
	298.2	3.5	88.0
	100.6	5.25	64.6
	120.9	5.25	80.2
	151.2	5.25	102.0
	200.2	5.25	111.0
	299.9	5.25	146.0



Synonym: *N*,*N*-Dimethylindoaniline
Source: Kim, S.; Johnston, K. P. *AIChE. J.* (1987), 33(10), 1603-1611.

Phenylacetic acid ($C_8H_8O_2$; MW=136.15) **[P-79]**

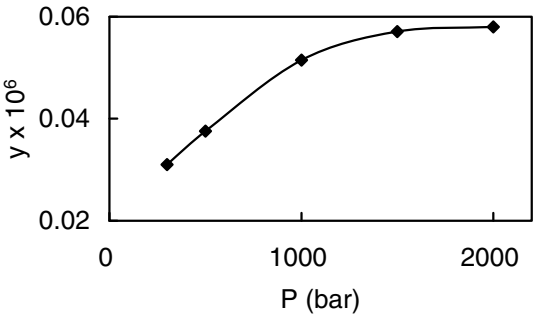
T (K)	P (bar)	y[1] x 10^6
308.2	83.5	1000
	90.5	2200
	95.5	2500
	98.5	2400
	99.0	2500
	102.5	2900
	110.5	3800
	111.5	4000
	134.5	4900
	142.5	5700
	161.0	6500
	166.5	6500
	174.0	6900
	175.0	7400
	184.0	7700
318.2	93.0	400
	109.0	2100
	122.0	5600
	131.0	7300
	138.0	8800
	142.0	9000
	152.0	10900
	171.0	14300
	191.0	17500



1: The unit of solubility in the source table was corrected from mole fraction to mol% to be consistent with the graphed data in the same article.
Synonyms: Benzeneacetic acid; Phenylethanoic acid
Source: Wells, P. A.; Chaplin, R. P.; Foster, N. R. *J. Supercrit. Fluids* (1990), 3(1), 8-14.

L-Phenylalanine ($C_9H_{11}NO_2$; MW=165.19) **[P-80]**

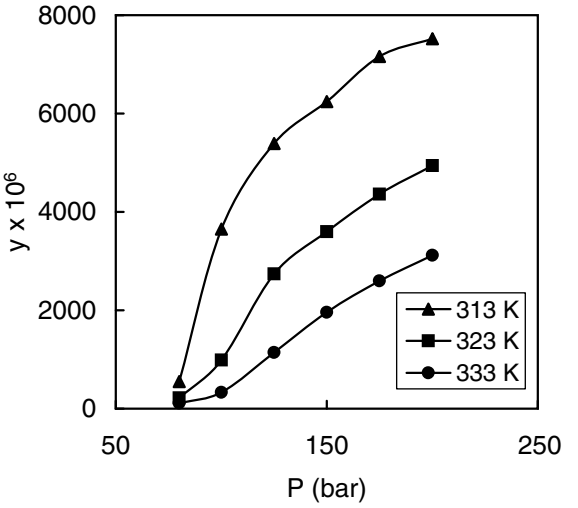
T (K)	P[1] (bar)	S[1] (μg/Nl[2])	y[3] x 10^6
313.15	300	0.230	0.0310
	500	0.279	0.0376
	1000	0.382	0.0515
	1500	0.424	0.0571
	2000	0.430	0.0580



1: Obtained by digitizing the graph in the original article.
2: Nl means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: (*S*)-2-Amino-3-phenylpropanonic acid; 3-Phenyl-L-alanine
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

3-Phenyl-1-propanol ($C_9H_{12}O$; MW=136.19) **[P-81]**

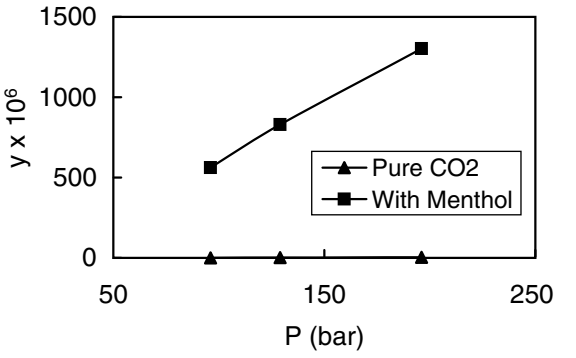
T (K)	P (bar)	S (g/L)	y x 10^6
313	80	0.58	550
	100	8.08	3650
	125	13.87	5390
	150	17.12	6240
	175	20.49	7160
	200	22.20	7520
323	80	0.18	220
	100	1.46	990
	125	5.93	2740
	150	8.85	3600
	175	11.47	4360
	200	13.60	4940
333	80	0.07	110
	100	0.35	330
	125	1.95	1140
	150	4.16	1960
	175	6.17	2600
	200	7.92	3120



Synonym: Benzenepropanol
Source: Medina, L.; Bueno, J. L. *J. Chem. Eng. Data* (2000), 45(2), 298-300.

Phenytoin ($C_{15}H_{12}N_2O_2$; MW=252.27) **[P-82]**

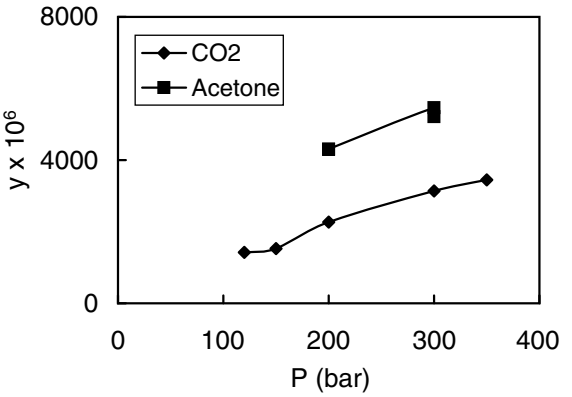
T (K)	P (bar)	Menthol[1)]	y x 10^6
318.13	96	0	0.8
	129	0	1.6
	196	0	3.0
	96	saturated	561.0
	129	saturated	829.0
	196	saturated	1302.0



1: A cosolvent that is fully saturated in CO_2.
Synonyms: 5-5-Diphenyl-2,-4-imidazolidinedione; 5,5-diphenylhyclantoin.
Source: Thakur, R., Ph.D. Dissertation, Auburn University, Auburn, Alabama, 2006.

Phthalic anhydride ($C_8H_4O_3$; MW=148.12) **[P-83]**

T (K)	P (bar)	Cosolvent (mol%)	y x 10^6
308.15	120	0.0	1420
	150	0.0	1530
	200	0.0	2270
	300	0.0	3140
	350	0.0	3450
		Acetone	
	200	3.5	4290
	200	3.5	4310
	300	3.5	5460
	300	3.5	5210

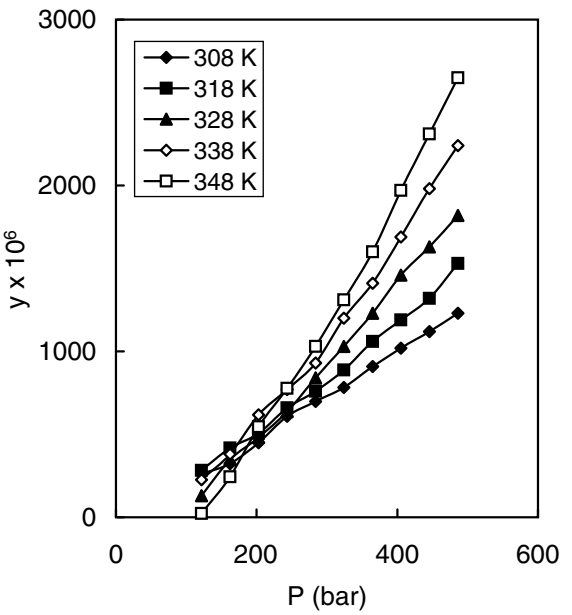


Synonyms: 1,3-Isobenzofurandione; 1,3-Phthalandione

Source: Dobbs, J. M.; Wong, J. M.; Lahiere, R. J.; Johnston, K. P. *Ind. Eng. Chem. Res.* (1987), 26(1), 56-65.

Picric acid ($C_6H_3N_3O_7$; MW=229.10) **[P-84]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
308	121.6	1.05	262
	162.1	1.40	322
	202.6	2.04	449
	243.2	2.84	608
	283.7	3.35	698
	324.2	3.84	782
	364.8	4.54	908
	405.3	5.19	1020
	445.8	5.76	1120
	486.4	6.44	1230
318	121.6	0.98	282
	162.1	1.66	417
	202.6	2.14	505
	243.2	2.93	660
	283.7	3.49	760
	324.2	4.19	888
	364.8	5.12	1060
	405.3	5.85	1190
	445.8	6.58	1320
	486.4	7.77	1530
328	121.6	0.36	130
	162.1	1.24	348
	202.6	1.89	480
	243.2	2.67	637
	283.7	3.67	841
	324.2	4.62	1030
	364.8	5.72	1230
	405.3	6.91	1460
	445.8	7.88	1630
	486.4	8.94	1820



338	121.6	0.47	227
	162.1	1.18	380
	202.6	2.23	617
	243.2	0.30	771
	283.7	3.86	930
	324.2	5.17	1200
	364.8	6.28	1410
	405.3	7.72	1690
	445.8	9.26	1980
	486.4	10.66	2240
348	121.6	0.04	22
	162.1	0.66	243
	202.6	1.80	546
	243.2	2.84	777
	283.7	4.02	1030
	324.2	5.36	1310
	364.8	6.84	1600
	405.3	8.63	1970
	445.8	10.40	2310
	486.4	12.21	2650

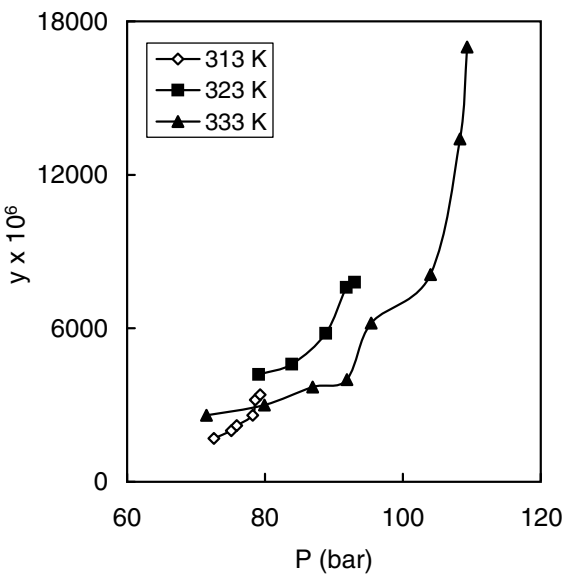
1: y value for 308 K and 243.2 bar in the original article was misprinted and thus corrected based on S.

Synonym: 2,4,6-Trinitrophenol

Source: Shamsipur, M.; Fat'hi, M. R.; Yamini, Y.; Ghiasvand, A. R. *J. Supercrit. Fluids* (2002), 23(3), 225-231.

α-Pinene ($C_{10}H_{16}$; MW=136.23) **[P-85]**

T (K)	P (bar)	y x 10^6
313	72.6	1700
	75.1	2000
	75.9	2200
	78.2	2600
	78.6	3200
	79.3	3400
323	79.1	4200
	83.9	4600
	88.8	5800
	91.8	7600
	93.0	7800
333	71.5	2600
	79.9	3000
	86.9	3700
	91.9	4000
	95.4	6200
	104.0	8100
	108.3	13400
	109.3	17000

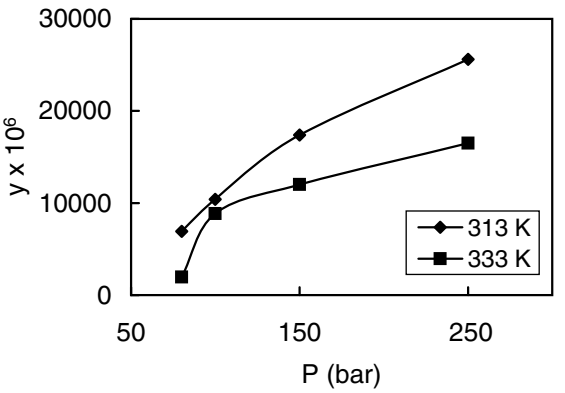


Synonyms: 2-Pinene; 2,6,6-Trimethylbicyclo[3.1.1]-hept-2-ene

Source: Akgun, M.; Akgun, N. A.; Dincer, S. *J. Supercrit. Fluids* (1999), 15, 117-125.

α-Pinene ($C_{10}H_{16}$; MW=136.23) **[P-86]**

T (K)	P[1)] (bar)	S[1,2)](g/L)	y[3)] x 10^6
313	80	0.039	6920
	100	0.059	10400
	150	0.099	17400
	250	0.147	25600
333	80	0.011	1960
	100	0.050	8860
	150	0.068	12000
	250	0.094	16500

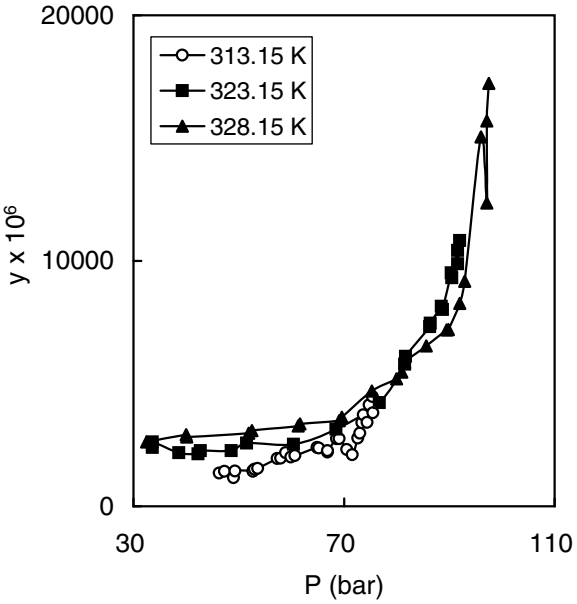


1: Obtained by digitizing the graph in the original article.
2: Solubility is based on 1 liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: 2-Pinene; 2,6,6-Trimethylbicyclo[3.1.1] hept-2-ene
Source: Francisco, J. C.; Sivik, B. *J. Supercrit. Fluids* (2002), 23(1), 11-19.

α-Pinene ($C_{10}H_{16}$; MW=136.23) **[P-87]**

T (K)	P (bar)	y x 10^6
313.15	46.3	1350
	47.3	1420
	49.0	1160
	49.3	1430
	52.7	1450
	52.7	1420
	53.0	1510
	53.6	1540
	57.3	1950
	58.0	1960
	58.9	2180
	59.9	2000
	60.7	2060
	64.9	2390
	65.2	2370
	66.9	2210
	66.9	2270
	68.6	2750
	69.1	2750
	70.5	2310
	71.6	2100
	72.6	2780
	73.0	2980
	73.4	3400
	73.7	3720
	74.4	3410
	74.8	4130
	75.4	4470
	75.5	3800

323.15	33.6	2400
	33.6	2620
	38.6	2180
	42.3	2130
	42.7	2270
	48.6	2270
	51.5	2570
	60.4	2530
	68.5	3140
	76.7	4220
	81.5	5780
	81.7	6100
	86.3	7320
	86.4	7460
	88.5	8150
	88.7	8010
	90.4	9510
	90.5	9310
	91.6	10420
	91.6	9880
	92.0	10820
328.15	32.5	2620
	40.0	2920
	40.1	2820
	51.9	2970
	52.5	3080
	61.3	3270
	61.6	3350
	69.1	3480
	69.6	3630
	75.3	4700
	80.0	5190
	81.0	5470
	81.5	5860
	85.6	6530
	89.5	7180
	89.8	7200
	92.0	8260
	92.9	9170
	96.0	15040
	97.1	12350
	97.1	15700
	97.5	17230

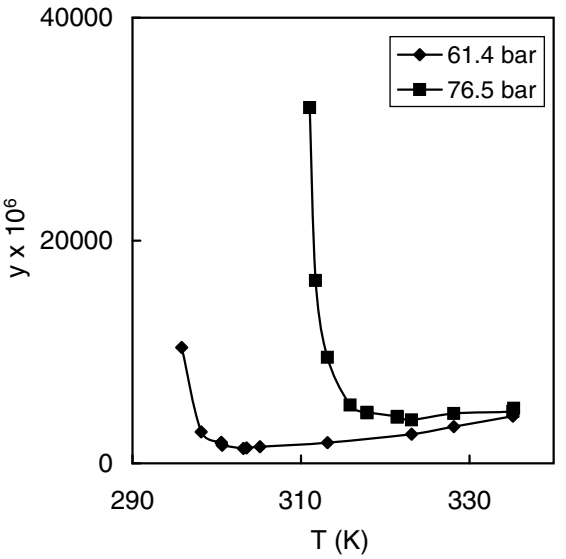


Synonyms: 2-Pinene; 2,6,6-Trimethylbicyclo [3.1.1]hept-2-ene

Source: Richter, M.; Sovova, H. *Fluid Phase Equil.* (1993), 85, 285-300.

α-Pinene ($C_{10}H_{16}$; MW=136.23) **[P-88]**

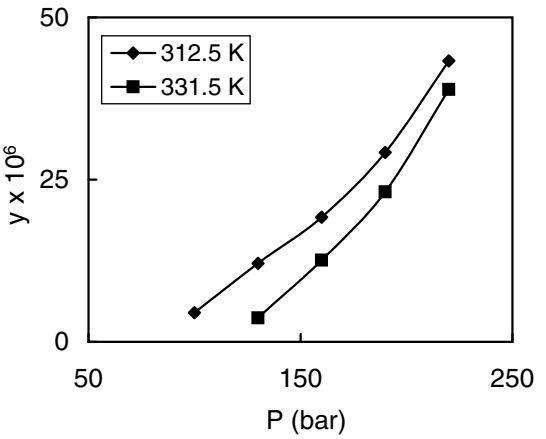
P (bar)	T (K)	y x 10^6
61.4	295.85	10410
	298.15	2820
	300.55	1880
	300.55	1840
	300.65	1630
	303.15	1340
	303.55	1390
	305.15	1490
	313.15	1860
	323.15	2620
	328.15	3300
	335.15	4240
76.5	311.05	31930
	311.75	16400
	313.15	9500
	315.85	5230
	317.85	4530
	317.85	4580
	321.45	4200
	321.45	4130
	323.15	3900
	328.15	4470
	335.15	4650
	335.25	4930



Synonyms: 2-Pinene; 2,6,6-Trimethylbicyclo [3.1.1]hept-2-ene
Source: Richter, M.; Sovova, H. *Fluid Phase Equil.* (1993), 85, 285-300.

Piroxicam ($C_{15}H_{13}N_3O_4S$; MW=331.35) **[P-89]**

T (K)	P (bar)	y x 10^6
312.5	100	4.5
	130	12.1
	160	19.2
	190	29.2
	220	43.3
331.5	130	3.7
	160	12.6
	190	23.1
	220	38.9



Synonym: 4-Hydroxy-2-methyl-*N*-2-pyridinyl-2*H*-1,2-benzothiazine-3-carboxamide 1,1-dioxide
Source: Macnaughton, S. J.; Kikic, I.; Foster, N. R.; Alessi, P.; Cortesi, A.; Colombo, I. *J. Chem. Eng. Data* (1996), 41(5), 1083-1086.

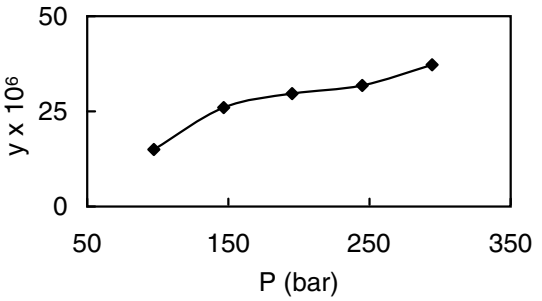
Platinum bis(acetylacetonate) ($C_{10}H_{14}O_4Pt$; FW=393.29) **[P-90]**

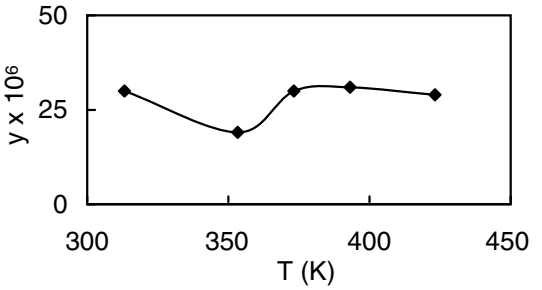
T[1)] (K)	P[1)] (bar)	y[1)] x 10^6
313.0	97.1	15.0
	146.7	26.0
	195.2	29.7
	244.8	31.8
	294.3	37.2
313.2	196.0	30.0
353.3	196.0	19.0
373.2	196.0	30.0
393.1	196.0	31.0
423.2	196.0	29.0

1: T at 196 bar, P at 313.0 K, and y are those obtained by digitizing the graph in the original article.

Synonyms: Bis(2,4-pentanedionato) platinum; Platinum(II) acetylacetonate

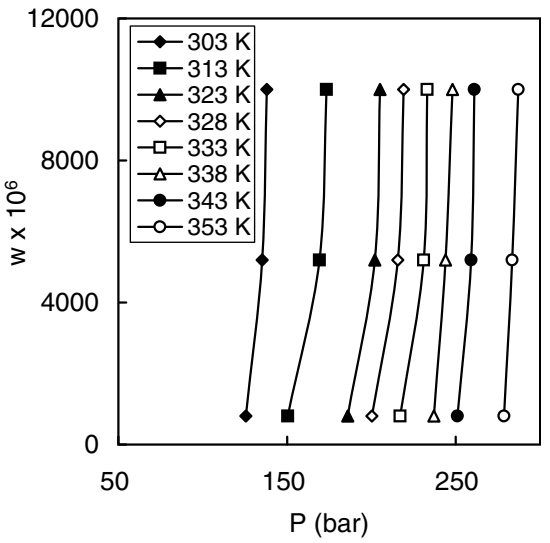
Source: Yoda, S.; Hasegawa, A.; Suda, H.; Uchimaru, Y.; Haraya, K.; Tsuji, T.; Otake, K. *Chem. Mater.* (2004), 16(12), 2363-2368.





Poly(1,1-dihydroperfluorooctyl acrylate)[1)] (MW=1.0 x 10^6) **[P-91]**

T (K)	P[2)] (bar)	w[2)] x 10^6
303	126	800
	135	5200
	138	10000
313	150	800
	169	5200
	173	10000
323	186	800
	202	5200
	205	10000
328	200	800
	216	5200
	219	10000
333	217	800
	231	5200
	233	10000
338	237	800
	244	5200
	248	10000

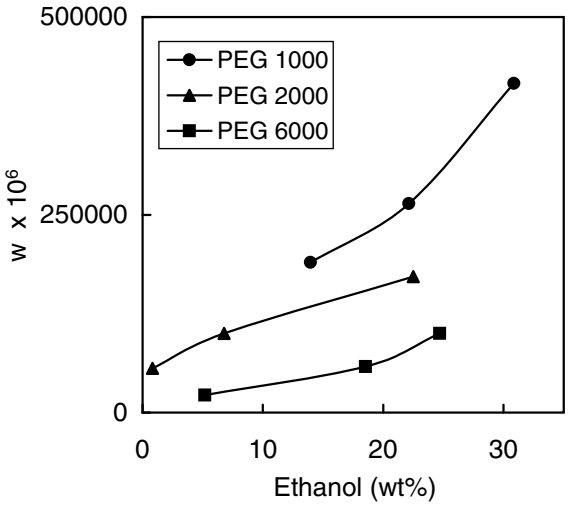


343	251	800
	259	5200
	261	10000
353	279	800
	283	5200
	287	10000

1: Usually abbreviated as poly(FOA).
2: Obtained by digitizing the graph in the source article.
Source: Hsiao, Y.-L.; Maury, E. E.; DeSimone, J. M.; Mawson, S.; Johnston, K. P. *Macromolecules* (1995), 28 (24), 8159-8166.

Polyethylene glycol (PEG1000, PEG2000, PEG6000) **[P-92]**

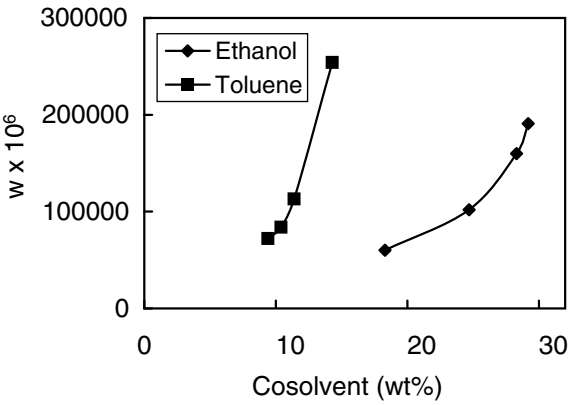
T (K)	P (bar)	Ethanol[1,2] (wt%)	$w^{2)} \times 10^6$
		PEG 1000 (Mw=1000)	
313.15	160	14.0	190000
		22.1	264000
		30.9	416000
		PEG 2000 (Mw=2000)	
		0.8	56000
		6.8	100000
		22.5	172000
		PEG 6000 (Mw=7500)	
		5.2	22000
		18.5	58000
		24.7	100000



1: Cosolvent concentration in the entire fluid mixture.
2: Obtained by digitizing the graph in the source article.
Source: Mishima, K.; Tokuyasu, T.; Matsuyama, K.; Komorita, N.; Enjoji, T.; Nagatani, M. *Fluid Phase Equil.* (1998), 144, 299-305.

Polyethylene glycol (PEG 6000; Mw=7500) **[P-93]**

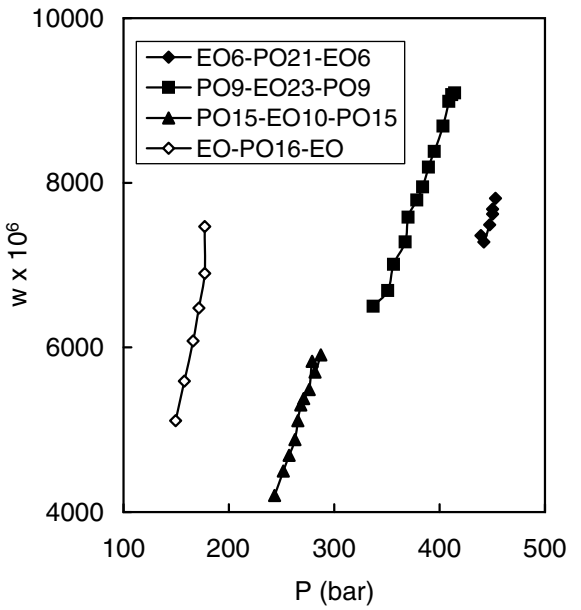
T (K)	P (bar)	Cosolv[1,2] (wt%)	w[2] x 10^6
		Ethanol	
313	150	18.3	60000
		24.7	102000
		28.3	160000
		29.2	191000
		Toluene	
		9.4	72000
		10.4	84000
		11.4	113000
		14.3	254000



1: Cosolvent concentration in the entire fluid mixture.
2: According to the authors the concentraion data for cosolvent and PEG in the source graph are wrong. The data shown here are directly from the authors.
Source: Mishima, Kenji; Y, S.; Ito, M.; Ezawa, M.; Tanabe, D. *Solvent Extr. Res. Dev., Japan,* (1999), 6, 176-181.

Poly(ethylene glycol-*block*-propylene glycol)[1] **[P-94]**

T (K)	P[2] (bar)	w[2] x 10^6
	EO_6-PO_{21}-EO_6	
295.4	439	7360
	442	7280
	448	7490
	450	7620
	450	7680
	453	7810
	PO_9-EO_{23}-PO_9	
	337	6500
	351	6690
	356	7010
	367	7280
	370	7580
	379	7790
	384	7950
	390	8190
	395	8380
	403	8690
	409	8990
	412	9070
	414	9090



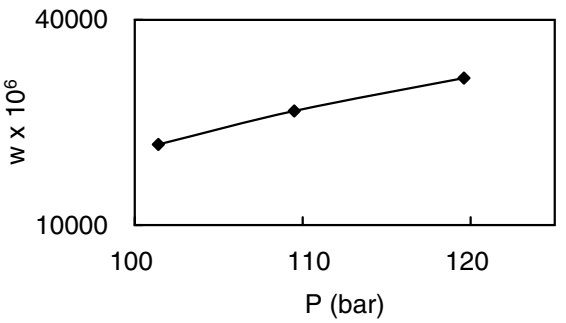
PO_{15}-EO_{10}-PO_{15}	
243	4200
252	4500
257	4690
263	4880
265	5110
268	5300
271	5380
276	5490
279	5830
282	5700
287	5910
EO-PO_{16}-EO	
149	5110
158	5590
166	6080
171	6480
177	6900
177	7470

1: Block copolymer of ethylene oxide and propylene oxide.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(ethylene glycol) dimethylether[1)] **[P-95]**

T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=500
295.4	101	21800
	110	26700
	120	31500

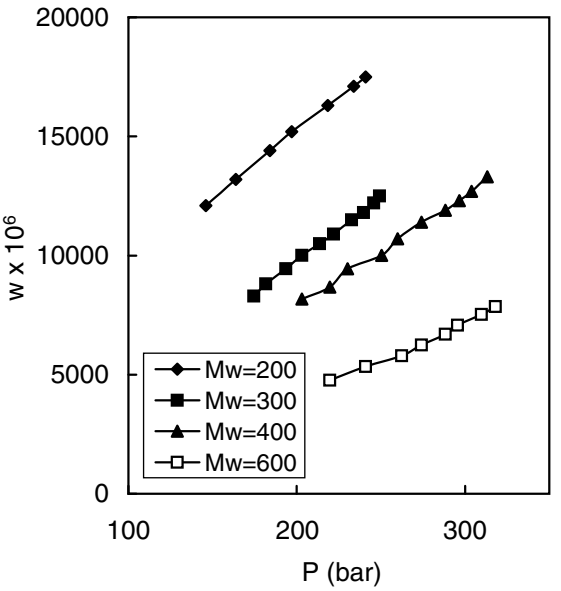
1: Both end groups of the polymer are dimethyl ethers.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103-110.



[P-96]

Poly(ethylene glycol) diol[1)]

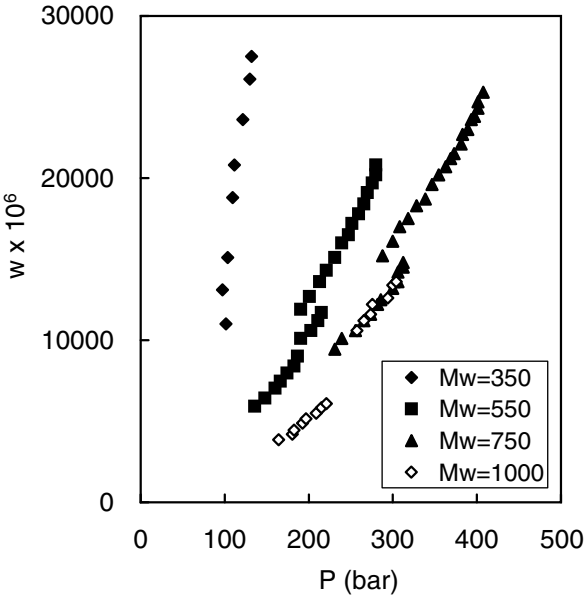
T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=200
295.4	146	12100
	164	13200
	184	14400
	197	15200
	218	16300
	234	17100
	241	17500
		Mw=300
	175	8300
	182	8810
	194	9450
	203	10000
	214	10500
	222	10900
	233	11500
	240	11800
	246	12200
	249	12500
		Mw=400
	203	8170
	220	8680
	230	9450
	250	10000
	260	10700
	274	11400
	288	11900
	297	12300
	304	12700
	313	13300
		Mw=600
	220	4760
	241	5340
	262	5790
	274	6240
	288	6690
	296	7070
	310	7520
	318	7850



1: Both end groups of this polymer are hydroxyl groups.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103-110.

Poly(ethylene glycol) monomethylether[1)] **[P-97]**

T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=350
295.4	97	13100
	101	11000
	103	15100
	109	18800
	111	20800
	122	23600
	130	26100
	132	27500
		Mw=550
295.4	136	5920
	148	6430
	160	7030
	166	7460
	174	7980
	182	8410
	186	9010
	191	10100
	191	11900
	201	12700
	203	10600
	211	11200
	213	13600
	215	11700
	221	14300
	231	15100
	239	16000
	247	16500
	251	17200
	259	17800
	266	18400
	270	19100
	276	19700
	280	20200
	280	20800
		Mw=750
295.4	231	9440
	239	10100
	255	10600
	266	11200
	274	11600
	282	12200
	286	12500
	288	15200
	300	13200

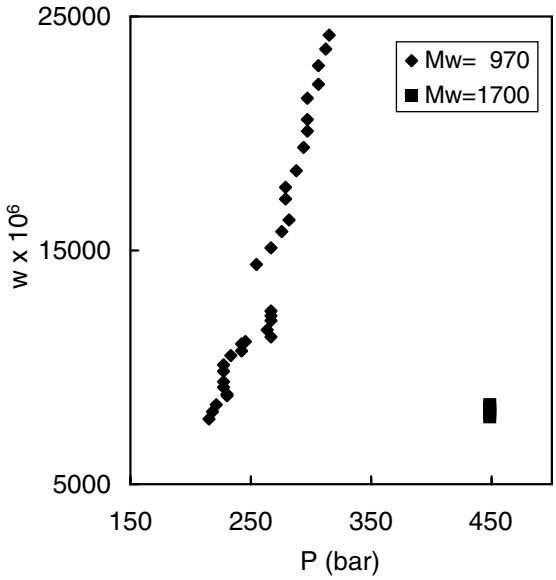


	300	16100
	302	13600
	306	13600
	306	14200
	308	17000
	312	14500
	312	14800
	318	17500
	328	18300
	339	18700
	347	19600
	355	20200
	363	20700
	369	21200
	373	21500
	381	22100
	383	22700
	389	23000
	393	23600
	397	23800
	401	24300
	401	24700
	407	25300
		Mw=1000
295.4	164	3860
	180	4200
	182	4460
	193	4890
	197	5150
	209	5490
	215	5830
	221	6090
	257	10600
	266	11200
	274	11600
	276	12200
	294	12600
	300	13400
	304	13600

1: This polymer has a methyl ether group at one end and a hydroxyl group at the other end.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(ethylene glycol-*ran*-propylene glycol)[1)] **[P-98]**

T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=970
295.4	215	7790
	218	8100
	221	8400
	227	9150
	227	9380
	227	9830
	227	10100
	230	8780
	230	8850
	233	10500
	242	10700
	242	11000
	245	11100
	255	14400
	264	11600
	267	11300
	267	12000
	267	12200
	267	12400
	267	15100
	276	15800
	279	17200
	279	17700
	282	16300
	288	18400
	294	19400
	297	20100
	297	20600
	297	21500
	306	22100
	306	22900
	312	23600
	315	24200
		Mw=1700
	448	7870
	448	8020
	448	8170
	448	8250
	448	8400



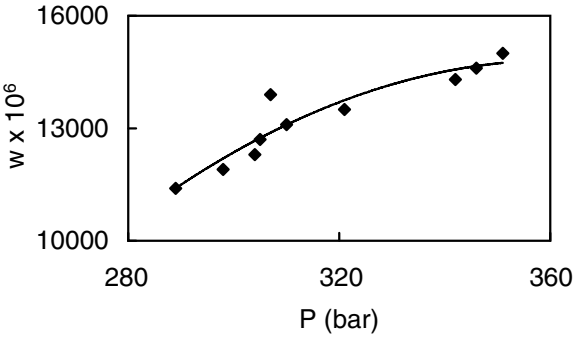
1: Random copolymer with an ethylene glycol content of approximately 50 wt%.

2: Obtained by digitizing the graph in the original article.

Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(ethyl vinyl ether)[1)] (Mw=1500) **[P-99]**

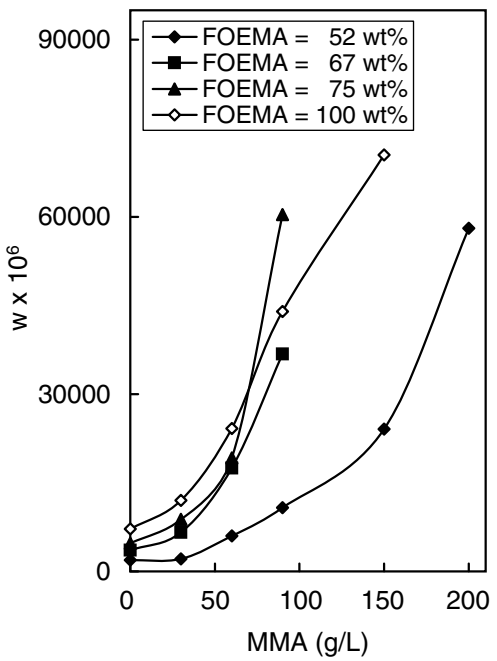
T (K)	P[2)] (bar)	w[2)] x 10^6
295.4	289	11400
	298	11900
	304	12300
	305	12700
	310	13100
	321	13500
	307	13900
	342	14300
	346	14600
	351	15000



1: A low molecular weight polymer.
(Lutanol A25) from BASF with 20 repeat units.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(FOEMA-*co*-PPGMA)[1)] **[P-100]**

T(K)	P (bar)	MMA[2,3)] (g/L)	S[3)] (g/L)	w[4)] x 10^6
		FOEMA[5)] = 52 wt%		
		(Mn=74,000)		
338.15	330	0	1.6	1900
		30	1.8	2100
		60	5.1	6000
		90	9.2	10800
		150	20.8	24100
		200	50.8	58100
		FOEMA[5)] = 67 wt%		
		(Mn=92,000)		
		0	3.0	3600
		30	5.5	6600
		60	14.8	17500
		90	31.4	36800
		FOEMA[5)] = 75 wt%[5)]		
		0	4.0	4800
		30	7.4	8800
		60	16.2	19200
		90	51.7	60400

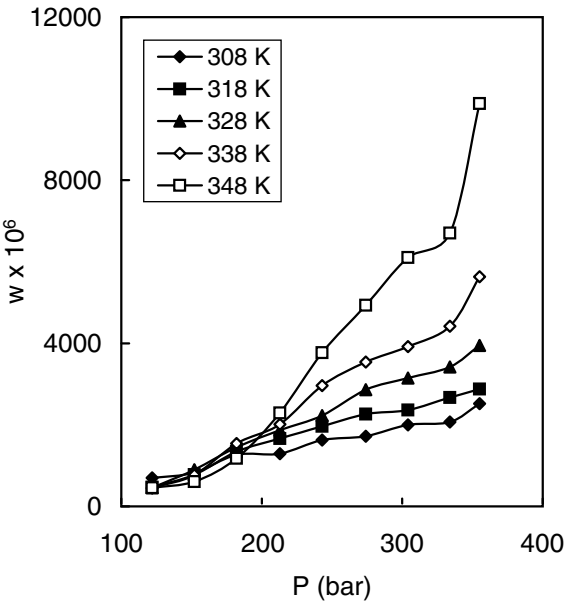


FOEMA[5)]	*= 100 wt%*	
0	6.0	7200
30	10.1	12000
60	20.5	24200
90	37.6	44000
150	61.2	70500

1: FOEMA: 2-(Perfluorooctyl)ethyl methacrylate.
PPGMA: Poly(propylene glycol) methacrylate.
2: Cosolvent in CO_2.
3: Obtained by digitizing the graph in the original article.
4: Calculated from S assuming that MMA and the polymer density of 1 g/mL.
5: FOEMA content in the copolymer.
6: Number average molecular weight (Mn) is not known for these polymers.
Source: Ding, L.; Olesik, S. V. *Macromolecules* (2003), 36(13), 4779-4785.

Poly(β-hydroxybutyrate) (MW=800,000) **[P-101]**

T (K)	P (bar)	S (g/L)	w x 10^6
308	122	0.54	700
	152	0.68	830
	182	1.07	1260
	213	1.13	1290
	243	1.46	1630
	274	1.58	1720
	304	1.86	2000
	334	1.96	2070
	355	2.41	2520
318	122	0.31	470
	152	0.58	780
	182	1.06	1340
	213	1.37	1660
	243	1.67	1960
	274	1.98	2260
	304	2.11	2360
	334	2.43	2670
	355	2.65	2880
328	122	0.23	460
	152	0.59	900
	182	1.05	1450
	213	1.44	1870
	243	1.79	2230
	274	2.38	2860
	304	2.69	3150
	334	2.98	3420
	355	3.49	3950



338	122	0.18	450
	152	0.43	770
	182	1.01	1540
	213	1.43	2010
	243	2.23	2960
	274	2.78	3540
	304	3.18	3920
	334	3.69	4420
	355	4.77	5630
348	122	0.15	460
	152	0.29	610
	182	0.69	1180
	213	1.49	2290
	243	2.65	3770
	274	3.65	4930
	304	4.71	6100
	334	5.33	6700
	355	8.01	9880

Source: Khosravi-Darani, K.; Vasheghani-Farahani, E.; Yamini, Y.; Bahramifar, N. *J. Chem. Eng. Data* (2003), 48(4), 860-863.

Polymers [P-102]

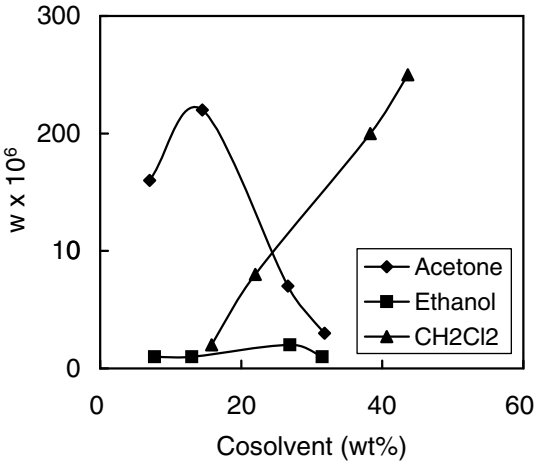
Polymer	T (K)	P (bar)	Ethanol (wt%)	$w^{1)} \times 10^6$
PEG4000	308	160	35	129000
PMMA15000	308	160	35	12000
PMMA90000	308	160	35	5100
PMMA120000	308	160	35	3200
PS-*b*-(PMMA-*co*-PGMA)	308	160	35	202000
Poly(styrene)	308	160	35	0
Bisphenol A-type epoxy resin	308	160	35	22100
Poly(oxyalkylene) alkylphenyl ether	308	160	35	161000

1: Mass fraction solubility on a polymer-free basis.

Source: Matsuyama, K.; Mishima, K.; Umemoto, H.; Yamaguchi, S. *Environ. Sci. Tech.* (2001), 35(20), 4149-4155.

Poly(methyl methacrylate) (Mn = 540,000) **[P-103]**

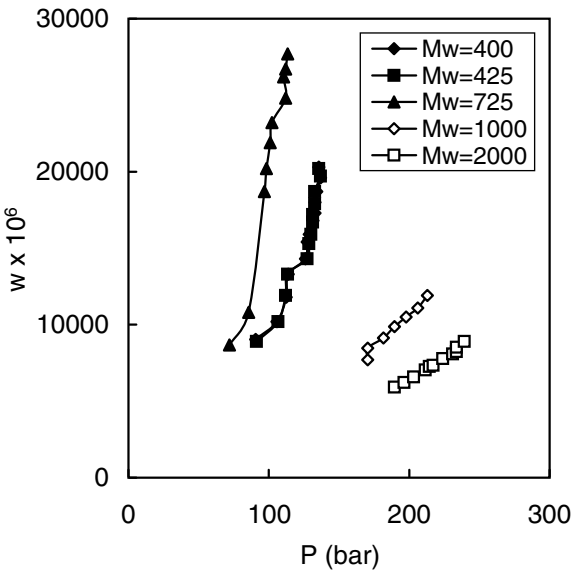
T (K)	P(bar)	Cosolvent (wt%)	w x 10^6
		Acetone	
313	180	7.0	160
		14.5	220
		26.6	70
		31.8	30
		Ethanol	
313	180	7.7	10
		13.0	10
		26.9	20
		31.5	10
		CH_2Cl_2	
313	180	15.8	20
		22.0	80
		38.3	200
		43.6	250



Source: Domingo, C.; Vega, A.; Fanovich., M. A.; Elvira, C.; Subra, P. *J. Appl. Polym. Sci.*(2003), 90(13), 3652-3659.

Poly(propylene glycol) diol[1)] **[P-104]**

T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=400
295.4	91	9030
	106	10200
	112	11800
	114	13300
	126	14300
	127	15400
	129	15900
	131	16800
	133	17300
	133	18000
	134	18700
	137	19600
	136	20300
		Mw=425
	91	8900
	107	10200
	112	11900
	113	13300
	127	14300
	129	15300
	130	15900
	131	16700
	131	17200

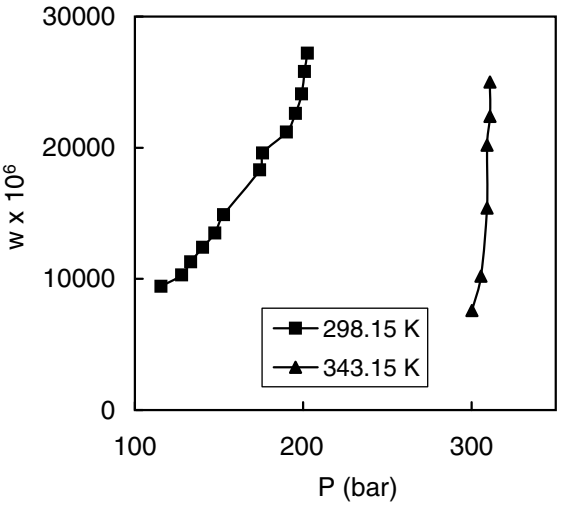


133	17900
133	18700
137	19700
136	20200
Mw=725	
72	8680
86	10800
97	18700
98	20200
101	21900
102	23200
112	24800
111	26200
112	26700
113	27700
Mw=1000	
171	7710
171	8460
182	9130
189	9870
198	10500
206	11100
213	11900
Mw=2000	
189	5920
196	6220
203	6590
212	7040
214	7260
217	7340
224	7790
231	8080
234	8230
234	8530
239	8900

1: Both end groups of this polymer are hydroxyl groups.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(propylene glycol) monobutylether[1)] (Mw = 1000) **[P-105]**

T (K)	P[2)] (bar)	w[2)] x 10^6
298.15	115	9420
	128	10300
	133	11300
	140	12400
	147	13500
	153	14900
	174	18300
	176	19600
	190	21200
	195	22600
	199	24100
	201	25800
	203	27200
343.15	300	7590
	306	10200
	309	15400
	309	20200
	311	22400
	311	25000



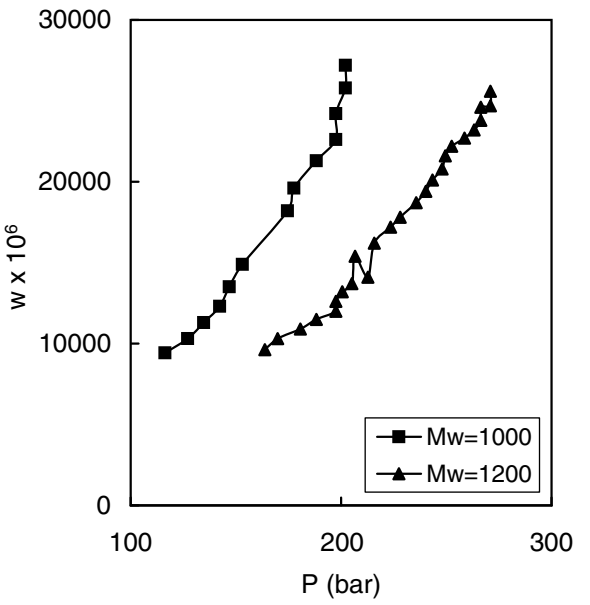
1: This polymer has a butyl ether group at one end and a hydroxyl group at the other end.

2: Obtained by digitizing the graph in the original article.

Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(propylene glycol) monomethylether[1)] **[P-106]**

T (K)	P[2)] (bar)	w[2)] x 10^6
		Mw=1000
295.4	116	9430
	127	10300
	135	11300
	142	12300
	147	13500
	153	14900
	174	18200
	178	19600
	188	21300
	197	22600
	197	24200
	202	25800
	202	27200
		Mw=1200
	164	9620
	170	10300
	181	10900
	188	11500
	197	12000



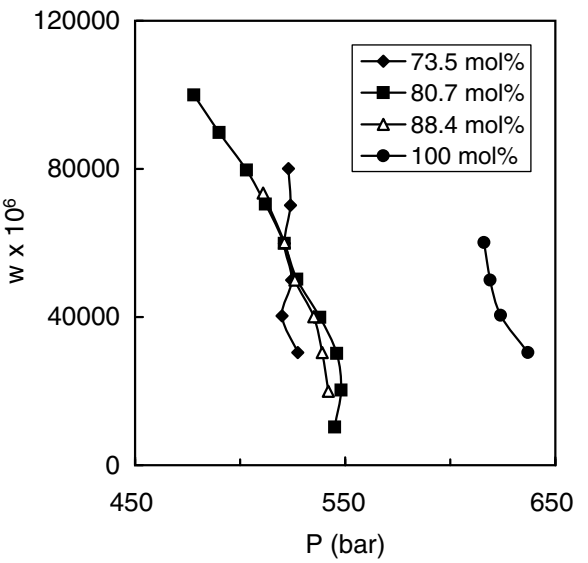
197	12600
201	13200
205	13700
207	15400
213	14100
216	16200
223	17200
228	17800
236	18700
240	19400
243	20100
248	20800
249	21600
253	22200
259	22700
263	23200
266	23800
266	24600
271	24700
271	25600

1: This polymer has a methyl ether group at one end and a hydroxyl group at the other end.
2: Obtained by digitizing the graph in the original article.
Source: Drohmann, C.; Beckman, E. J. *J. Supercrit. Fluids* (2002), 22, 103–110.

Poly(tetrafluoroethylene-*co*-vinyl acetate) **[P-107]**

(Mw=166,000; 156,000; 140,000 from the top)

T (K)	VAc in polymer (mol%)	P[1)] (bar)	w[1)] x 10^6
298.15	73.5	527	30400
		520	40300
		525	50000
		521	59900
		524	70200
		523	80100
	80.7	545	10300
		548	20300
		546	30200
		538	39900
		527	50200



	521	59900
	512	70500
	503	79700
	490	89800
	478	100000
88.4	542	20000
	539	30400
	535	40100
	526	50000
	521	60100
	511	73500
100.0	637	30400
	624	40500
	619	50000
	616	60100

1: Obtained by digitizing the graph in the original article.

Source: Baradie, B.; Shoichet, M. S.; Shen, Z.; McHugh, M. A.; Hong, L.; Wang, Y.; Johnson, J. K.; Beckman, E. J.; Enick, R. M. *Macromolecules* (2004), 37(20), 7799-7807.

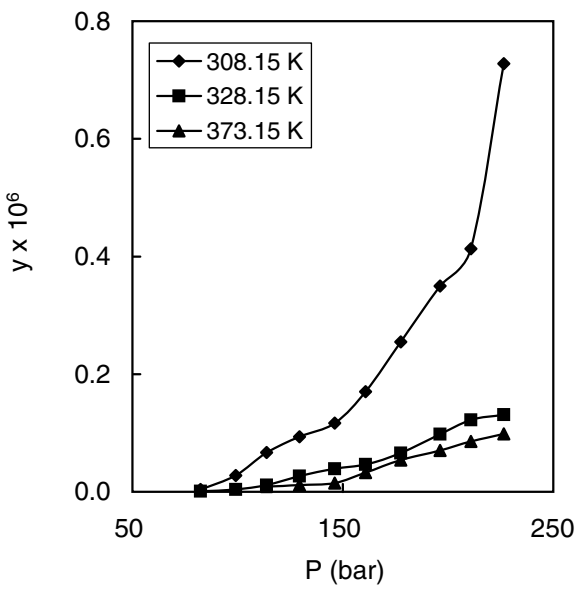
Poly(vinyl butyral) **[P-108]**

T (K)	P (bar)	y x 10^6
348.15	400	0.008

Source: Shende, R. V.; Lombardo, S. J. *J. Supercrit. Fluids* (2002), 23(2), 153-162.

Prednisolone ($C_{21}H_{28}O_5$; MW=360.44) **[P-109]**

T (K)	P (bar)	y x 10^6
308.15	82.4	0.004
	99.0	0.028
	113.8	0.067
	129.4	0.093
	146.1	0.117
	160.8	0.170
	177.5	0.255
	196.1	0.350
	210.8	0.413
	226.5	0.728
328.15	82.4	0.001
	99.0	0.004
	113.8	0.012
	129.4	0.027
	146.1	0.039
	160.8	0.047
	177.5	0.066
	196.1	0.098
	210.8	0.122
	226.5	0.131



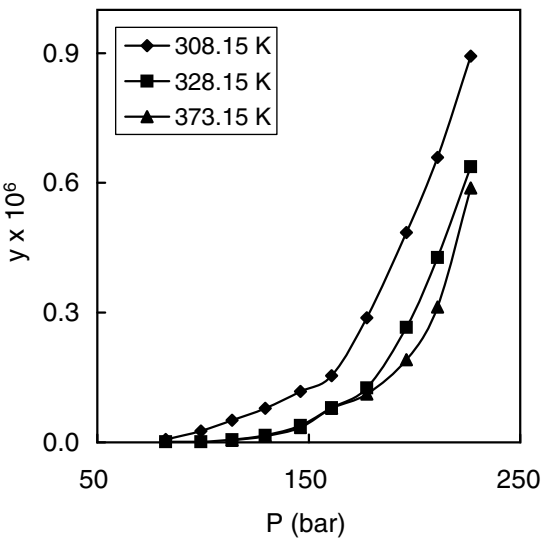
373.15	113.8	0.009
	129.4	0.011
	146.1	0.015
	160.8	0.033
	177.5	0.054
	196.1	0.070
	210.8	0.086
	226.5	0.099

Synonyms: 1,2-Dehydrohydrocortisone; 11β,17,21-Trihydroxy-1,4-pregnadiene-3,20-dione

Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Prednisone ($C_{21}H_{26}O_5$; MW=358.43) **[P-110]**

T (K)	P (bar)	y x 10^6
308.15	82.4	0.007
	99.0	0.026
	113.8	0.051
	129.4	0.079
	146.1	0.118
	160.8	0.154
	177.5	0.288
	196.1	0.485
	210.8	0.659
	226.5	0.893
328.15	82.4	0.001
	99.0	0.001
	113.8	0.006
	129.4	0.016
	146.1	0.039
	160.8	0.080
	177.5	0.126
	196.1	0.266
	210.8	0.427
	226.5	0.637
373.15	113.8	0.005
	129.4	0.014
	146.1	0.034
	160.8	0.079
	177.5	0.112
	196.1	0.191
	210.8	0.313
	226.5	0.588

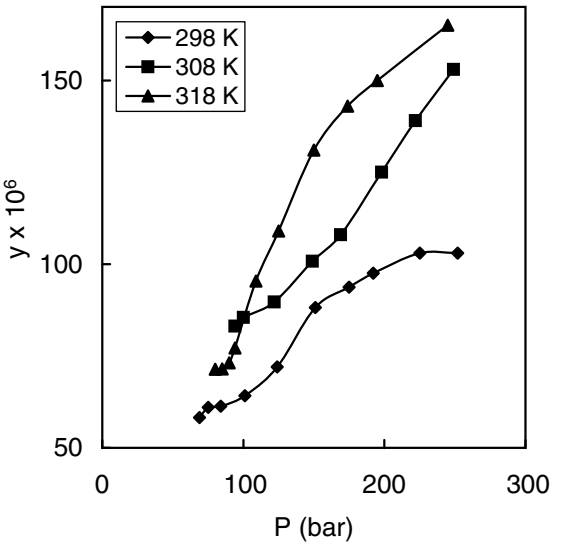


Synonyms: 1,2-Dehydrocortisone; 17,21-Dihydroxy-1,4-pregnadiene-3,11,20-trione

Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Procaine ($C_{13}H_{20}N_2O_2$; MW=236.31) **[P-111]**

T (K)	P (bar)	y x 10^6
298	69	58.2
	75	61.0
	84	61.3
	101	64.2
	124	72.0
	151	88.2
	175	93.7
	192	97.5
	225	103.0
	252	103.0
308	94	83.1
	100	85.5
	122	89.7
	149	100.8
	169	108.0
	198	125.0
	222	139.0
	249	153.0
318	80	71.4
	85	71.5
	90	73.1
	94	77.2
	109	95.4
	125	109.0
	150	131.0
	174	143.0
	195	150.0
	245	165.0

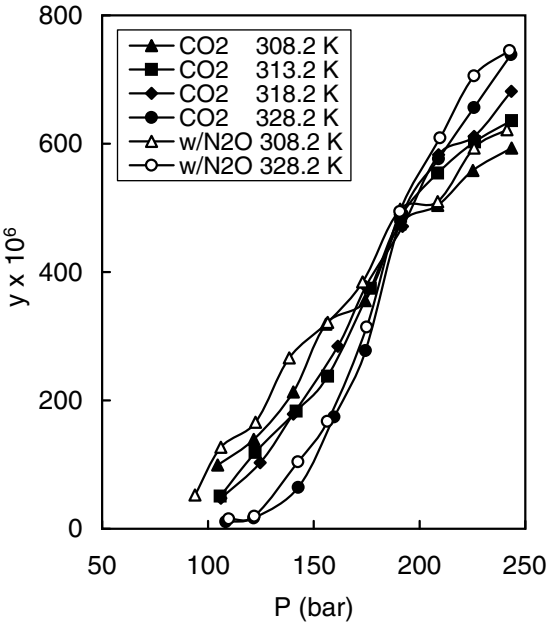


Synonym: 2-(Diethylamino)ethyl-4-aminobenzoate
Source: Weinstein, R. D.; Muske, K. R.; Moriarty, J.; Schmidt, E. K. *J. Chem. Eng. Data* (2004), 49(3), 547-552.

Progesterone ($C_{21}H_{30}O_2$; MW=314.46) **[P-112]**

T (K)	P (bar)	N_2O[1)] (vol %)	y x 10^6
308.2	104.7	0.0	99.2
	121.7	0.0	139.4
	140.3	0.0	213.3
	155.8	0.0	318.8
	174.4	0.0	355.7
	190.9	0.0	474.7
	208.6	0.0	503.8
	225.2	0.0	558.2
	243.6	0.0	593.4

	93.8	10.0	52.4
	106.1	10.0	127.1
	122.5	10.0	166.0
	138.4	10.0	266.3
	156.6	10.0	321.7
	173.2	10.0	384.7
	190.9	10.0	497.8
	208.6	10.0	509.7
	225.8	10.0	593.0
	241.4	10.0	621.8
313.2	105.9	0.0	50.9
	122.4	0.0	119.0
	141.8	0.0	183.3
	156.6	0.0	237.8
	176.8	0.0	374.6
	191.1	0.0	486.7
	208.6	0.0	554.1
	226.1	0.0	602.6
	243.6	0.0	635.9
318.2	106.2	0.0	47.5
	124.7	0.0	102.9
	140.3	0.0	178.6
	161.4	0.0	284.3
	174.7	0.0	377.2
	191.9	0.0	471.4
	209.0	0.0	582.9
	225.9	0.0	611.4
	243.4	0.0	681.7
328.2	108.5	0.0	10.9
	121.7	0.0	16.9
	142.8	0.0	64.3
	159.6	0.0	174.1
	174.5	0.0	277.6
	192.0	0.0	489.8
	209.0	0.0	576.3
	225.8	0.0	656.3
	243.3	0.0	738.6
	109.8	10.0	15.6
	121.9	10.0	19.3
	142.6	10.0	104.4
	156.4	10.0	167.4
	175.0	10.0	314.5
	190.7	10.0	494.2
	209.6	10.0	609.2
	225.9	10.0	705.6
	242.6	10.0	745.2



1. Cosolvent in CO_2.

Synonym: Pregn-4-ene-3,20-dione

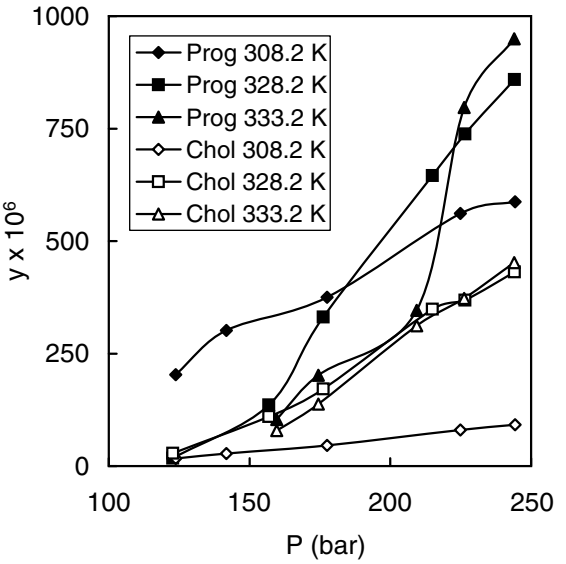
Source: Kosal, E.; Lee, C. H.; Holder, G. D. *J. Supercrit. Fluids* (1992), 5(3), 169-179.

Progesterone (1) + Cholesterol (2) Mixture[1)] **[P-113]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.2	123.8	203.1	16.9
	141.8	301.2	27.6
	177.5	375.3	45.8
	224.8	561.2	80.1
	244.3	587.1	91.6
328.2	122.7	17.6	28.2
	156.9	135.7	109.8
	176.2	331.4	171.6
	214.9	645.3	348.8
	226.6	738.2	368.4
	244.1	859.2	431.6
333.2	159.7	103.2	78.8
	174.4	201.9	137.5
	209.3	346.3	312.0
	226.3	796.7	372.5
	244.0	949.5	452.4

1: Solubility of each component was measured from the mixture.

Source: Kosal, E.; Lee, C. H.; Holder, G. D. *J. Supercrit. Fluids* (1992), 5(3), 169-179.

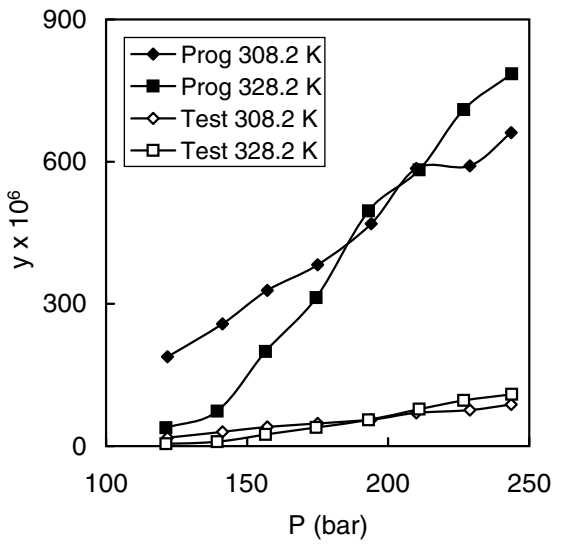


Progesterone (1) + Testosterone (2) Mixture[1)] **[P-114]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
308.2	121.8	188.7	17.8
	141.2	258.1	30.2
	157.2	328.3	40.5
	175.0	382.6	48.0
	193.9	468.8	56.1
	209.9	585.5	70.1
	229.0	591.1	76.2
	243.6	661.2	88.1
328.2	121.3	38.6	4.8
	139.4	73.4	9.0
	156.5	199.3	24.4
	174.5	312.9	39.4
	193.0	496.0	55.5
	211.0	582.3	78.2
	226.8	709.6	96.5
	243.8	785.3	109.3

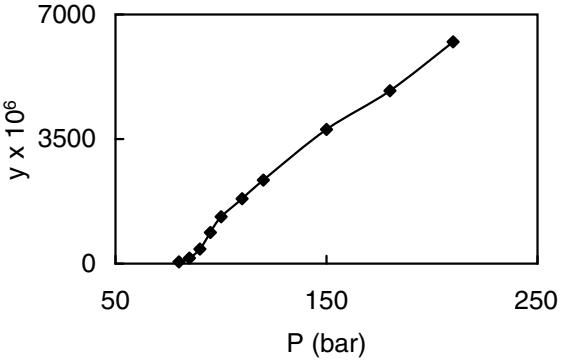
1: Solubility of each component was measured from the mixture.

Source: Kosal, E.; Lee, C. H.; Holder, G. D. *J. Supercrit. Fluids* (1992), 5(3), 169-179.



Prometone ($C_{10}H_{19}N_5O$; MW=225.29) **[P-115]**

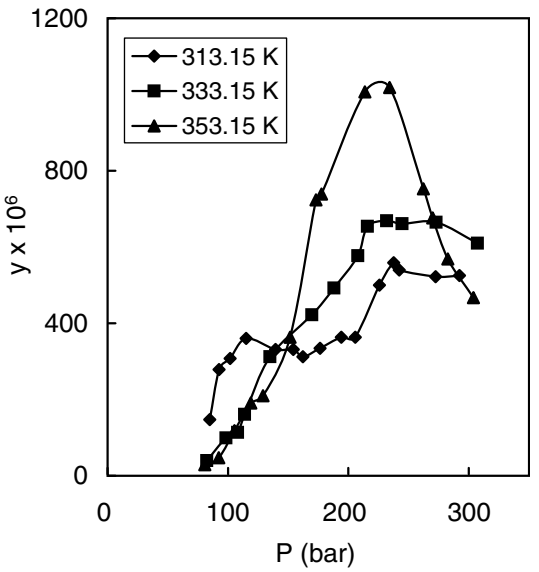
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.07	48
	85	0.30	158
	90	1.05	413
	95	2.63	875
	100	4.28	1320
	110	6.41	1820
	120	8.70	2350
	150	15.20	3770
	180	20.50	4860
	210	27.30	6230



1: Obtained by digitizing the graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2-Methoxy-4,6-bis(isopropylamino)-1,3,5-triazine
Source: Rodrigues, S. V.; Nepomuceno, D.; Martins, L. V.; Baumann, W. *Fresenius' J. Anal. Chem.* (1998), 360(1), 58-61.

Prometryne ($C_{10}H_{19}N_5S$; MW=241.36) **[P-116]**

T (K)	P (bar)	y[1)] x 10^6
313.15	84.7	147
	92.7	279
	101.8	308
	115.0	360
	139.5	331
	154.3	331
	162.3	312
	176.5	334
	194.2	363
	205.7	363
	225.7	500
	237.6	559
	242.2	540
	272.5	522
	292.3	525
333.15	82.5	40
	98.4	99
	108.1	114
	113.9	161
	134.9	312
	169.8	422
	188.0	492
	207.9	577
	215.8	654
	231.9	669

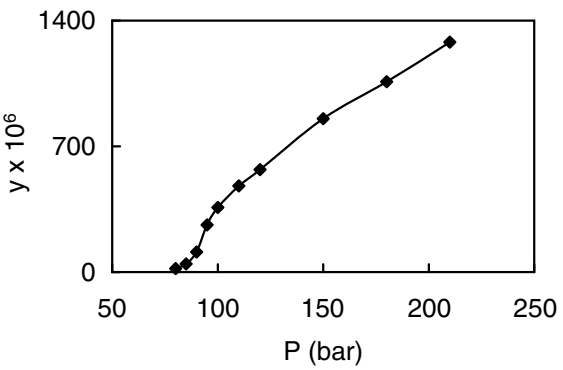


	244.5	661
	272.9	665
	307.2	610
353.15	80.8	29
	92.2	47
	105.3	118
	119.0	191
	129.2	210
	151.5	363
	173.1	724
	177.7	739
	213.6	1007
	234.2	1018
	262.2	753
	270.1	676
	282.6	569
	303.8	467

1: Obtained by digitizing the graph in the original article.
Synonym: 2,4-Bis(isopropylamino)-6-methylthio-1,3,5-triazine
Source: Knez, Z.; Rizner-Hras, A.; Kokot, K.; Bauman, D. *Fluid Phase Equil.* (1998), 152(1), 95-108.

Prometryne ($C_{10}H_{19}N_5S$; MW=241.36) **[P-117]**

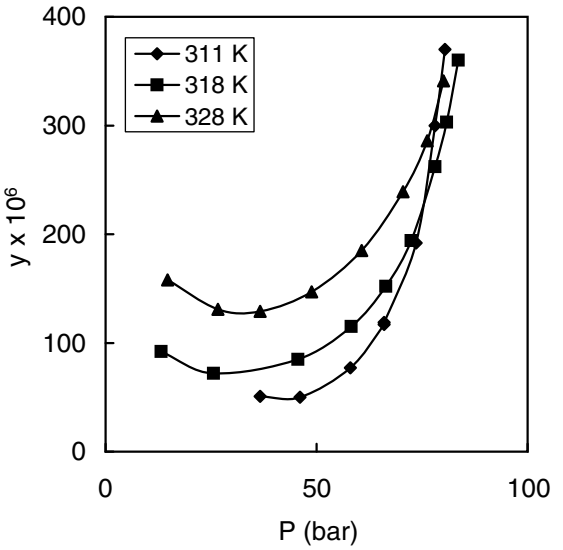
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.03	20
	85	0.09	46
	90	0.31	112
	95	0.84	262
	100	1.25	359
	110	1.81	480
	120	2.26	571
	150	3.67	854
	180	4.78	1060
	210	5.99	1280



1: Obtained by digitizing the graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2,4-Bis(isopropylamino)-6-methylthio-1,3,5-triazine
Source: Rodrigues, S. V.; Nepomuceno, D.; Martins, L. V.; Baumann, W. *Fresenius' J. Anal. Chem.* (1998), 360(1), 58-61.

1,2-Propanediol ($C_3H_8O_2$; MW=76.09) **[P-118]**

T (K)	P (bar)	y x 10^6
311	36.6	51
	46.1	50
	58.0	77
	66.0	117
	66.0	119
	73.6	192
	78.1	300
	80.4	370
318	13.2	92
	25.6	72
	45.6	85
	58.2	115
	66.4	152
	72.4	194
	78.1	262
	80.8	303
	83.6	360
328	14.7	158
	26.6	131
	36.6	129
	48.8	147
	60.7	185
	70.5	239
	76.2	286
	80.1	341

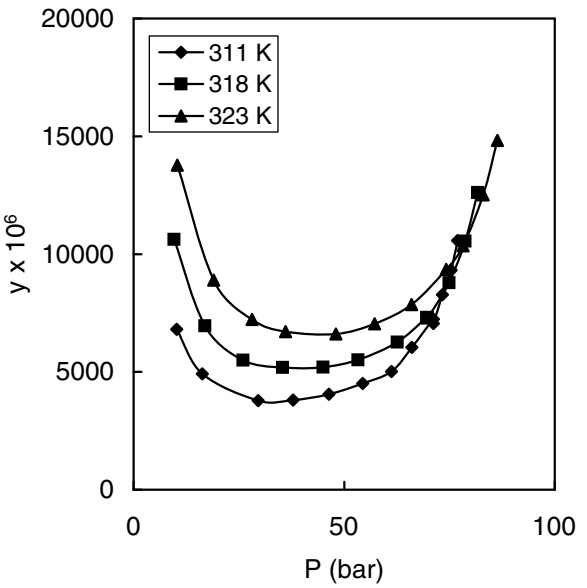


Synonym: Propylene glycol
Source: Chylinski, K. ; Gregorowicz, J. *Fluid Phase Equil.* (1998), 143(1-2), 163-172.

1-Propanol (C_3H_8O ; MW=60.10) **[P-119]**

T (K)	P (bar)	y x 10^6
311	10.2	6810
	16.3	4920
	29.6	3780
	37.9	3810
	46.4	4050
	54.4	4510
	61.2	5010
	66.1	6040
	71.2	7240
	71.2	7050
	73.3	8280
	75.4	9320
	76.9	10570

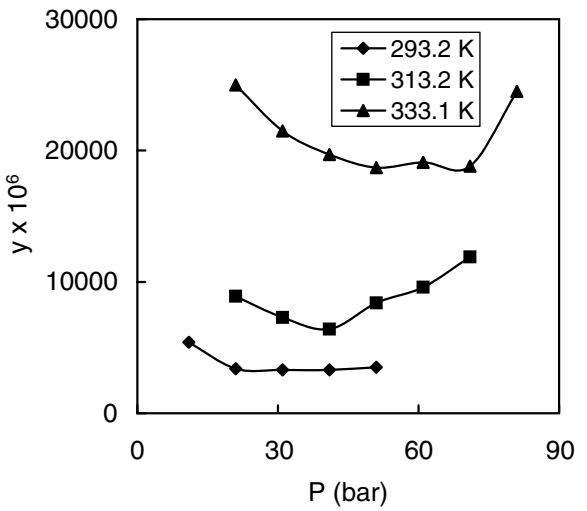
318	9.6	10630
	16.9	6950
	26.0	5500
	35.4	5190
	45.0	5200
	53.3	5510
	62.6	6260
	69.6	7310
	69.8	7290
	69.8	7290
	74.9	8780
	78.7	10550
	81.7	12610
323	10.4	13770
	19.0	8890
	28.1	7230
	36.1	6710
	48.0	6610
	57.2	7040
	66.0	7860
	74.2	9350
	78.2	10350
	83.0	12510
	86.4	14830



Source: Chylinski, K. ; Gregorowicz, J. *Fluid Phase Equil.* (1998), 143(1-2), 163-172.

2-Propanol (C_3H_8O ; MW=60.1) **[P-120]**

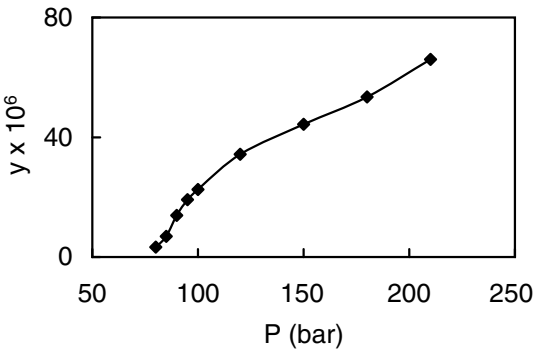
T (K)	P (bar)	y x 10^6
293.2	11	5400
	21	3400
	31	3300
	41	3300
	51	3500
313.2	21	8900
	31	7300
	41	6400
	51	8400
	61	9600
	71	11900
333.1	21	25000
	31	21500
	41	19700
	51	18700
	61	19100
	71	18800
	81	24500



Source: Bamberger, A.; Maurer, G. *J. Chem. Thermodyn.* (2000), 32(5), 685-700.

Propazine ($C_9H_{16}ClN_5$; MW=229.71) **[P-121]**

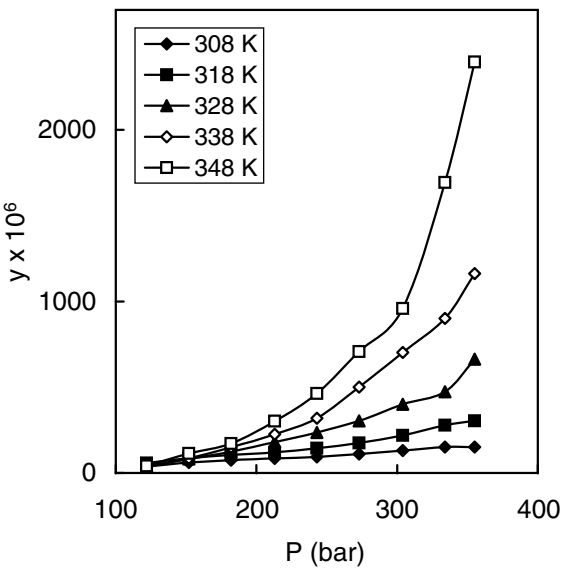
T (K)	P[1)] (bar)	S[1,2)] (g/L)	y[3)] x 10^6
313.15	80	0.005	3.3
	85	0.013	6.9
	90	0.036	13.9
	95	0.059	19.1
	100	0.075	22.6
	120	0.129	34.3
	150	0.181	44.3
	180	0.229	53.5
	210	0.293	66.0



1: Obtained by digitizing the graph in the original article.
2: The data may have a large reading error as the source graph is small.
3: Calculated from S.
Synonym: 2-Chloro-4,6-bis(isopropylamino)-1,3,5-triazine
Source: Rodrigues, S. V.; Nepomuceno, D.; Martins, L. V.; Baumann, W. *Fresenius'* J. *Anal. Chem.* (1998), 360(1), 58-61.

Propranolol ($C_{16}H_{21}NO_2$; MW=259.35) **[P-122]**

T (K)	P (bar)	y x 10^6
308	122	36.7
	152	61.0
	182	75.2
	213	85.3
	243	93.4
	273	110.2
	304	130.8
	334	151.6
	355	150.2
318	122	58.4
	152	87.2
	182	105.7
	213	120.4
	243	143.6
	273	175.1
	304	218.4
	334	278.9
	355	304.2
328	122	42.7
	152	82.1
	182	123.2
	213	179.9
	243	235.3
	273	303.6
	304	400.0
	334	473.9
	355	663.9

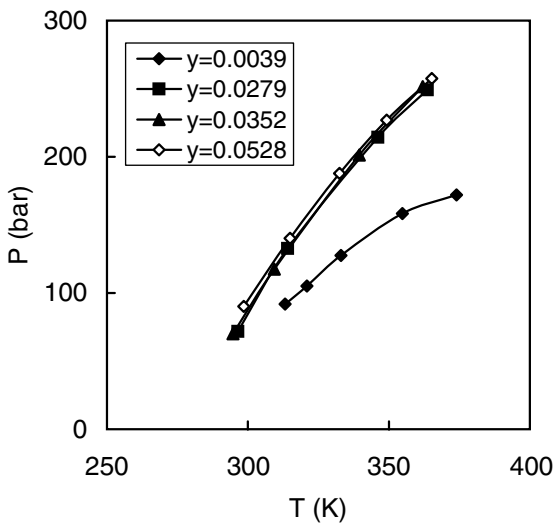


338	122	35.8
	152	85.6
	182	149.7
	213	225.6
	243	319.0
	273	500.2
	304	702.2
	334	900.7
	355	1162.3
348	122	41.4
	152	113.0
	182	171.3
	213	302.7
	243	463.4
	273	708.0
	304	958.0
	334	1694.5
	355	2396.1

Synonym: 1-(Isopropylamino)-3-(1-naphthyloxy)-2-propanol
Source: Yamini, Y.; Arab, J.; Asghari-Khiavi, M. *Pharm. Biomed. Anal.* (2003), 32(1), 181-187.

Propyl 2,5-dichlorobenzoate ($C_{10}H_{10}Cl_2O_2$; MW=233.09) **[P-123]**

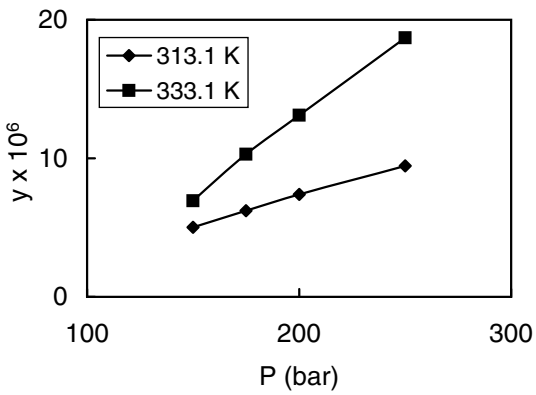
T (K)	P(bar)	y x 10^6
313.15	91.9	3900
320.95	105.2	3900
332.95	127.5	3900
354.75	158.3	3900
373.95	172.1	3900
296.45	71.7	27900
314.15	132.7	27900
346.15	214.3	27900
363.65	249.2	27900
294.65	70.0	35200
309.35	117.6	35200
339.55	201.2	35200
362.05	251.5	35200
298.55	90.2	52800
314.95	140.2	52800
332.45	187.8	52800
349.25	227.0	52800
365.25	257.4	52800



Synonym: 2,5-Dichlorobenzoic acid *n*-propyl ester
Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

Propyl gallate ($C_{10}H_{12}O_5$; MW=212.20) **[P-124]**

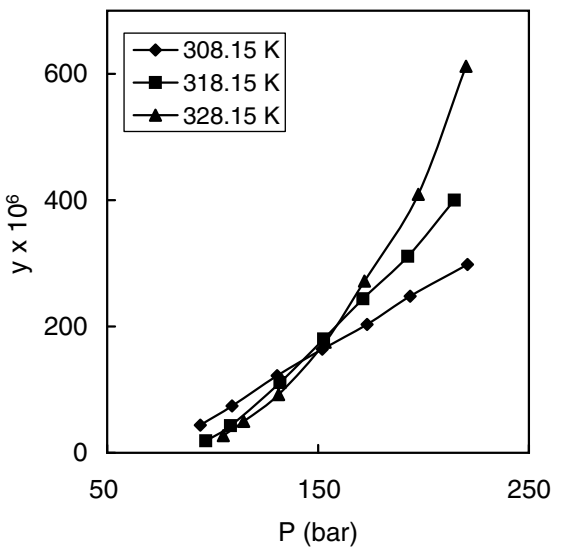
T (K)	P (bar)	y x 10^6
313.1	150	5.02
	175	6.22
	200	7.39
	250	9.45
333.1	150	6.94
	175	10.3
	200	13.1
	250	18.7



Synonyms: Gallic acid propyl ester; 3,4,5-Trihydroxybenzoic acid propyl ester
Source: Cortesi, A.; Kikic, I.; Alessi, P.; Turtoi, G.; Garnier, S. *J. Supercrit. Fluids* (1999), 14(2), 139-144.

Propyl 4-hydroxybenzoate ($C_{10}H_{12}O_3$; MW=180.20) **[P-125]**

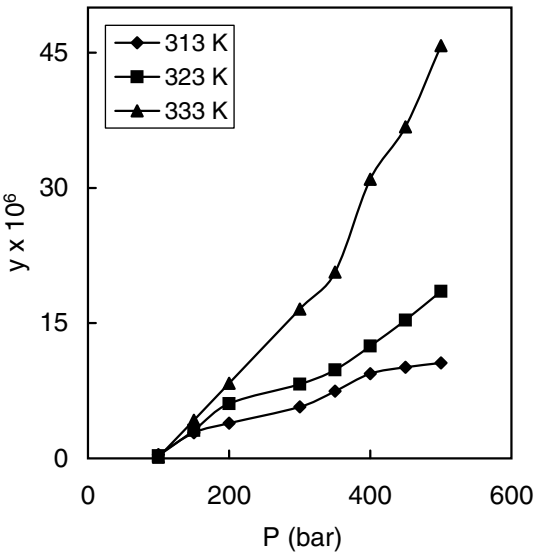
T (K)	P (bar)	y × 10^6
308.15	94.1	44
	109.2	74
	130.6	122
	152.0	164
	173.3	203
	193.7	248
	220.9	298
318.15	96.8	19
	108.5	43
	132.0	111
	152.7	180
	171.3	244
	192.6	311
	214.7	400
328.15	105.1	27
	114.8	50
	131.3	92
	153.4	175
	172.0	272
	197.5	409
	220.2	612



Synonym: 4-Hydroxybenzoic acid propyl ester;
Source: Cheng, K.-W.; Tang, M.; Chen, Y.-P. *Fluid Phase Equil.* (2002), 201(1), 79-96.

Protocatechualdehyde ($C_7H_6O_3$; MW=138.12) **[P-126]**

T (K)	P (bar)	y x 10^6
313	100	0.43
	150	2.83
	200	3.91
	300	5.71
	350	7.45
	400	9.40
	450	10.10
	500	10.58
323	100	0.29
	150	3.10
	200	6.06
	300	8.22
	350	9.82
	400	12.46
	450	15.32
	500	18.52
333	100	0.13
	150	4.24
	200	8.33
	300	16.57
	350	20.65
	400	30.97
	450	36.78
	500	45.79

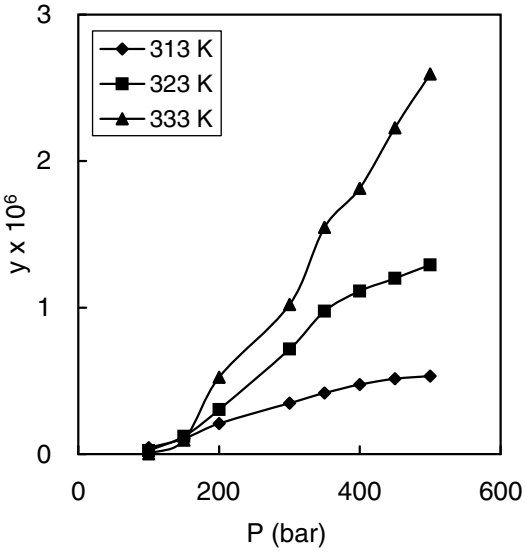


Synonyms: Catechaldehyde; 3,4-Dihydroxybenzaldehyde
Source: Murga, R.; Sanz, M. T.; Beltran, S.; Cabezas, J. L. *J. Supercrit. Fluids* (2002), 23(2), 113-121.

Protocatechuic acid ($C_7H_6O_4$; MW=154.12) **[P-127]**

T (K)	P (bar)	y x 10^6
313	100	0.044
	150	0.106
	200	0.208
	300	0.348
	350	0.416
	400	0.474
	450	0.514
	500	0.532

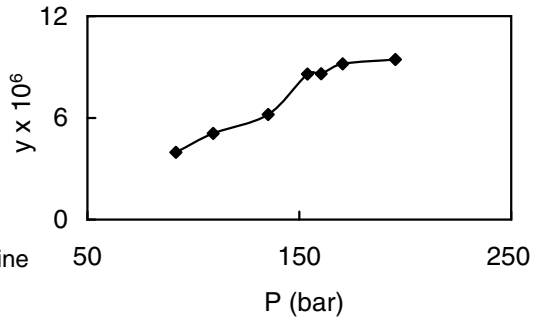
323	100	0.025
	150	0.121
	200	0.304
	300	0.717
	350	0.975
	400	1.113
	450	1.199
	500	1.291
333	100	0.002
	150	0.095
	200	0.525
	300	1.021
	350	1.547
	400	1.814
	450	2.227
	500	2.595



Synonym: 3,4-Dihydroxybenzoic acid
Source: Murga, R.; Sanz, M. T.; Beltran, S.; Cabezas, J. L. *J. Supercrit. Fluids* (2002), 23(2), 113-121.

Pyrazine-2-carboxylic acid ($C_5H_4N_2O_2$; MW=124.10) **[P-128]**

T (K)	P (bar)	y x 10^6
308.15	91.8	3.96
	109.4	5.08
	135.3	6.19
	153.8	8.59
	160.3	8.60
	170.4	9.18
	195.3	9.45

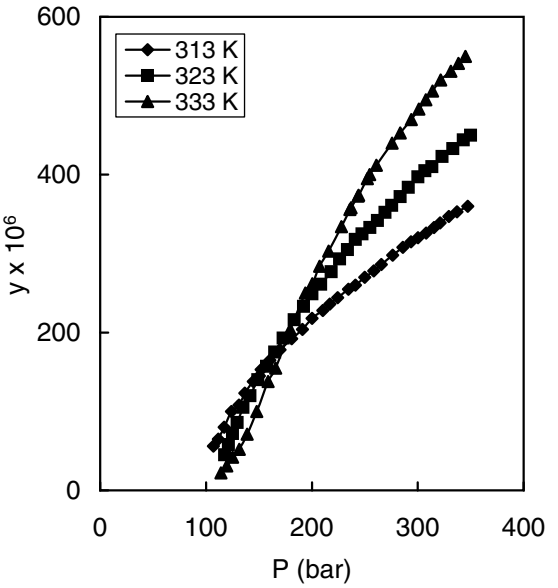


Synonyms: 2-Pyrazinoic acid; 2-Carboxypyrazine
Source: Nakatani, T.; Tohdo, T.; Ohgaki, K.; Katayama, T. *J. Chem. Eng. Data* (1991), 36(3), 314-316.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-129]**

T (K)	P (bar)	y x 10^6
313	107.0	56
	111.5	65
	117.2	80
	124.0	100
	131.0	108
	136.7	123
	144.5	138
	150.3	145
	152.1	153
	160.4	165

	169.9	178
	181.0	192
	191.0	204
	200.0	218
	210.3	228
	216.9	236
	224.4	244
	234.4	255
	241.2	260
	249.8	270
	258.4	278
	265.7	286
	276.2	298
	285.9	308
	293.6	315
	300.1	320
	308.0	326
	315.2	333
	321.1	339
	329.3	347
	337.0	353
	347.2	360
323	117.8	45
	121.2	58
	125.0	72
	129.6	86
	135.0	105
	141.6	120
	149.1	140
	157.2	157
	165.0	175
	172.9	193
	183.4	216
	192.2	233
	200.2	249
	208.4	261
	218.3	277
	226.2	293
	233.7	305
	241.0	318
	247.4	325
	254.9	333
	262.1	342
	269.1	352
	275.6	361
	283.3	372
	291.1	384
	300.1	397



	306.9	405
	313.5	410
	323.1	423
	333.2	433
	343.1	444
	350.0	450
333	114.0	22
	119.5	31
	125.1	42
	131.3	52
	138.8	71
	147.9	100
	158.6	138
	165.7	155
	179.4	204
	193.8	250
	200.3	262
	207.3	284
	215.7	303
	227.8	334
	235.9	356
	236.9	358
	243.6	373
	244.0	374
	252.5	395
	254.6	400
	260.9	412
	275.7	440
	283.5	453
	293.8	470
	300.9	483
	307.5	495
	314.0	506
	321.6	520
	331.3	531
	338.3	541
	345.1	550

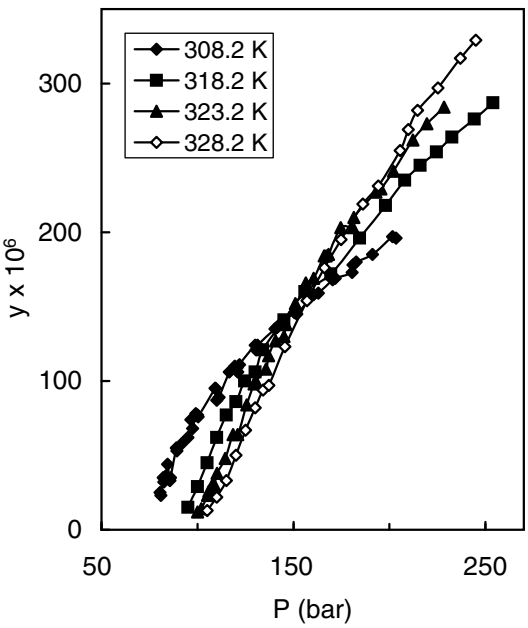
Synonym: Benzo[*def*]phenanthrene
Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1997), 10(3), 175-189.

[P-130]

Pyrene ($C_{16}H_{10}$; MW = 202.25)

T (K)	P (bar)	y x 10^6
308.2	80.4	25
	80.9	23
	82.2	35
	82.5	32
	83.4	36
	84.4	44
	85.1	34
	85.6	33
	86.0	35
	89.0	55
	89.3	53
	91.8	58
	95.1	62
	96.6	74
	97.4	68
	99.1	78
	100.0	77
	100.3	76
	109.2	95
	109.5	95
	110.0	87
	111.2	89
	116.5	106
	119.5	110
	120.7	109
	121.0	106
	121.9	111
	130.0	124
	130.5	121
	131.2	124
	140.4	135
	141.4	136
	142.0	137
	150.5	146
	151.7	145
	160.5	158
	163.0	159
	170.4	168
	171.7	169
	180.5	173
	181.0	178
	182.6	180

	191.2	185
	201.6	197
	203.5	196
318.2	95.0	15
	100.0	29
	105.0	45
	110.0	62
	115.0	77
	120.0	86
	124.6	100
	130.0	106
	134.0	121
	145.0	141
	156.0	160
	169.5	172
	184.5	196
	198.0	218
	208.0	235
	216.0	245
	224.5	254
	232.5	264
	244.2	276
	254.0	287
323.2	100.1	12
	102.0	14
	105.2	23
	105.9	26
	106.7	26
	108.1	31
	108.8	30
	110.2	38
	114.5	48
	118.5	64
	121.0	64
	125.7	84
	129.4	98
	130.3	100
	135.6	108
	137.0	117
	140.7	127
	145.0	130
	146.2	138
	151.0	152
	156.0	160
	156.5	166
	160.5	169
	166.0	184
	167.0	184
	168.2	185
	174.6	203



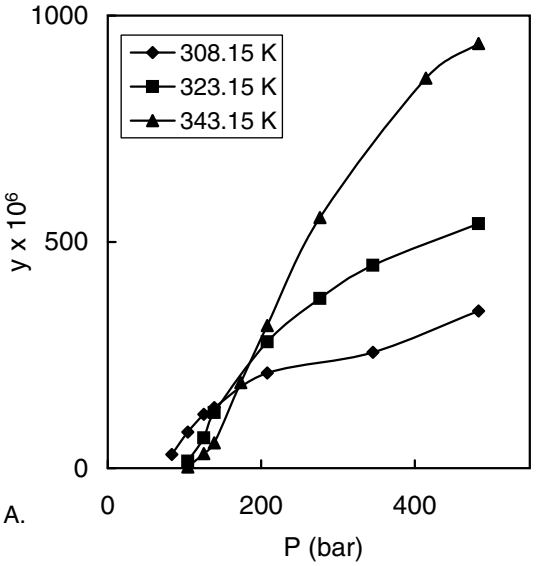
	181.0	203
	181.4	210
	193.0	227
	195.6	229
	202.0	241
	212.2	262
	219.5	273
	228.5	284
328.2	105.0	13
	110.0	22
	115.0	33
	120.0	50
	125.0	67
	130.0	82
	134.2	94
	137.2	97
	145.5	123
	157.0	154
	166.1	176
	174.8	195
	186.1	219
	194.2	231
	205.5	255
	209.8	269
	214.7	282
	225.2	297
	237.0	317
	245.0	329

Synonym: Benzo[*def*]phenanthrene
Source: Bartle, K. D.; Clifford, A. A.; Jafar, S. A. *J. Chem. Eng. Data* (1990), 35(3), 355-360.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-131]**

T (K)	P (bar)	y x 10^6
308.15	83.6	30.3
	104.3	79.6
	125.0	119.0
	138.8	134.0
	207.7	210.0
	345.6	256.0
	483.4	347.0

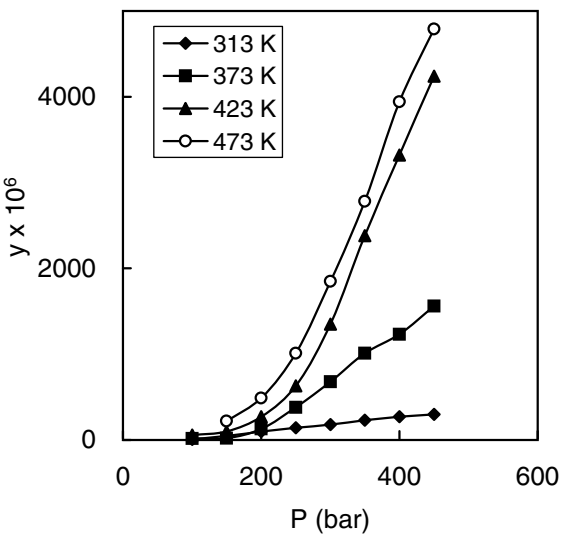
323.15	104.3	15.3
	125.0	66.6
	138.8	123.0
	207.7	279.0
	276.7	375.0
	345.6	448.0
	483.4	540.0
343.15	104.3	2.7
	125.0	32.0
	138.8	56.2
	173.3	189.0
	207.7	315.0
	276.7	554.0
	414.5	862.0
	483.4	938.0



Synonym: Benzo[*def*]phenanthrene
Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.* (1982), 21(3), 191-197.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-132]**

T (K)	P (bar)	y x 10^6
313	100	6
	150	46
	200	99
	250	142
	300	180
	350	230
	400	270
	450	300
373	100	16
	150	22
	200	130
	250	380
	300	680
	350	1010
	400	1230
	450	1560
423	100	59
	150	97
	200	270
	250	630
	300	1350
	350	2380
	400	3320
	450	4240

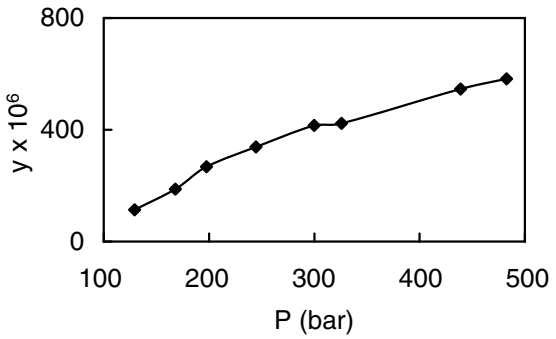


473	150	220
	200	490
	250	1010
	300	1850
	350	2780
	400	3940
	450	4790

Synonym: Benzo[*def*]phenanthrene
Source: Miller, D. J.; Hawthorne, S. B.; Clifford, A. A.; Zhu, S. *J. Chem. Eng. Data* (1996), 41(4), 779-786.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-133]**

T (K)	P (bar)	y x 10^6
323.1	129.4	114
	167.9	188
	197.7	268
	244.5	339
	299.8	416
	325.8	423
	439.0	546
	482.5	582

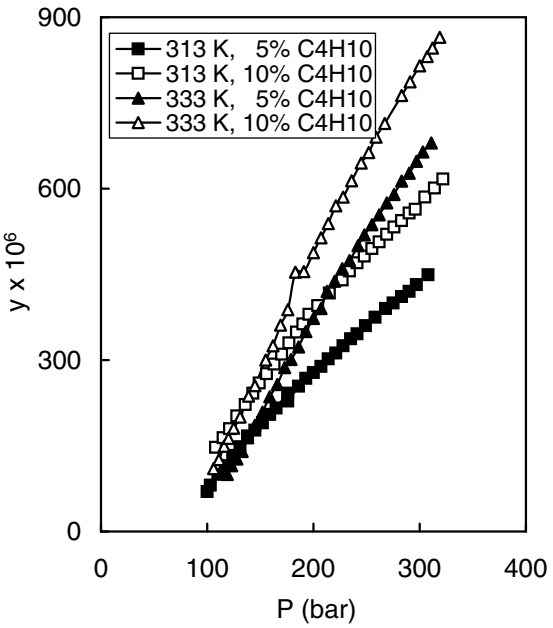


Synonym: Benzo[*def*]phenanthrene
Source: Yu, E.; Richter, M.; Chen, P.; Wang, X.; Tavlarides, L. L. *Ind. Eng. Chem. Res.* (1995), 34(1), 340-346.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-134]**

T (K)	P (bar)	Butane[1)] (mol%)	y x 10^6
313	100	5	70
	103	5	81
	110	5	100
	117	5	115
	124	5	133
	131	5	148
	138	5	167
	145	5	177
	152	5	190
	159	5	205
	165	5	216
	176	5	242
	176	5	228
	186	5	254
	193	5	268

	200	5	278
	207	5	289
	214	5	302
	221	5	312
	228	5	325
	235	5	337
	241	5	346
	249	5	360
	258	5	375
	268	5	390
	275	5	400
	283	5	411
	290	5	420
	297	5	432
	308	5	449
313	108	10	147
	115	10	164
	121	10	180
	128	10	202
	136	10	222
	143	10	242
	149	10	260
	156	10	276
	163	10	293
	170	10	310
	177	10	330
	184	10	349
	190	10	363
	196	10	380
	204	10	395
	215	10	417
	227	10	440
	234	10	456
	241	10	470
	248	10	482
	255	10	495
	262	10	507
	269	10	520
	276	10	533
	283	10	544
	290	10	557
	296	10	564
	305	10	585
	314	10	601
	322	10	617
333	119	5	100
	123	5	115
	128	5	127
	133	5	140
	138	5	164
	145	5	186
	152	5	209



	159	5	236
	166	5	257
	173	5	287
	179	5	301
	186	5	323
	193	5	350
	200	5	373
	207	5	390
	213	5	420
	220	5	438
	227	5	460
	234	5	474
	242	5	500
	248	5	519
	255	5	537
	262	5	554
	269	5	575
	276	5	590
	283	5	613
	290	5	627
	297	5	648
	303	5	664
	311	5	680
333	106	10	110
	111	10	126
	116	10	149
	120	10	163
	125	10	181
	131	10	200
	139	10	237
	145	10	255
	155	10	300
	162	10	325
	169	10	361
	176	10	388
	183	10	454
	191	10	455
	200	10	488
	207	10	514
	214	10	539
	221	10	570
	228	10	585
	236	10	614
	245	10	645
	252	10	663

259	10	690
267	10	714
283	10	763
291	10	787
300	10	815
307	10	831
312	10	846
319	10	865

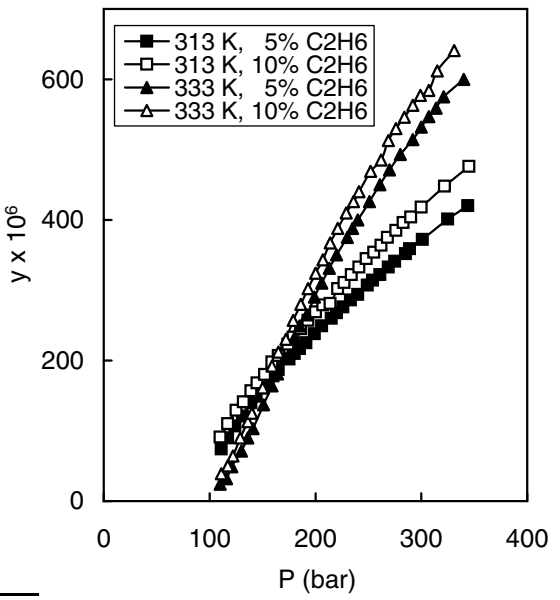
1: Cosolvent in CO_2.

Synonym: Benzo[*def*]phenanthrene

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-135]**

T (K)	P (bar)	Ethane[1)] (mol%)	y x 10^6
313	111	5	74
	117	5	90
	124	5	107
	131	5	121
	139	5	140
	144	5	149
	151	5	161
	160	5	178
	165	5	187
	175	5	202
	180	5	210
	185	5	217
	191	5	225
	199	5	238
	206	5	249
	215	5	260
	220	5	268
	226	5	276
	233	5	286
	240	5	294
	249	5	307
	254	5	314
	261	5	322
	269	5	333
	275	5	341
	285	5	352
	289	5	359
	301	5	372
	325	5	401
	344	5	420



313	110	10	91
	117	10	110
	125	10	129
	132	10	141
	139	10	157
	145	10	168
	152	10	180
	159	10	198
	165	10	207
	174	10	223
	179	10	233
	186	10	245
	193	10	257
	200	10	269
	207	10	279
	214	10	281
	221	10	302
	227	10	311
	234	10	322
	241	10	333
	248	10	345
	255	10	354
	262	10	364
	268	10	375
	276	10	385
	283	10	396
	290	10	404
	300	10	418
	322	10	448
	345	10	476
333	110	5	24
	116	5	32
	121	5	49
	130	5	71
	136	5	90
	141	5	103
	151	5	137
	159	5	164
	164	5	181
	171	5	204
	180	5	232
	185	5	249
	192	5	265
	199	5	290
	206	5	310
	213	5	331
	220	5	350
	230	5	375
	235	5	388
	240	5	400
	251	5	426

	261	5	450
	270	5	471
	280	5	493
	292	5	514
	300	5	532
	307	5	547
	314	5	559
	321	5	575
	340	5	600
333	111	10	39
	117	10	50
	122	10	64
	129	10	90
	136	10	113
	140	10	125
	150	10	161
	159	10	192
	165	10	212
	172	10	230
	179	10	257
	186	10	280
	193	10	302
	200	10	324
	207	10	343
	214	10	367
	221	10	388
	229	10	410
	236	10	426
	241	10	440
	252	10	469
	262	10	485
	269	10	513
	276	10	530
	284	10	546
	292	10	563
	299	10	577
	307	10	584
	315	10	612
	331	10	641

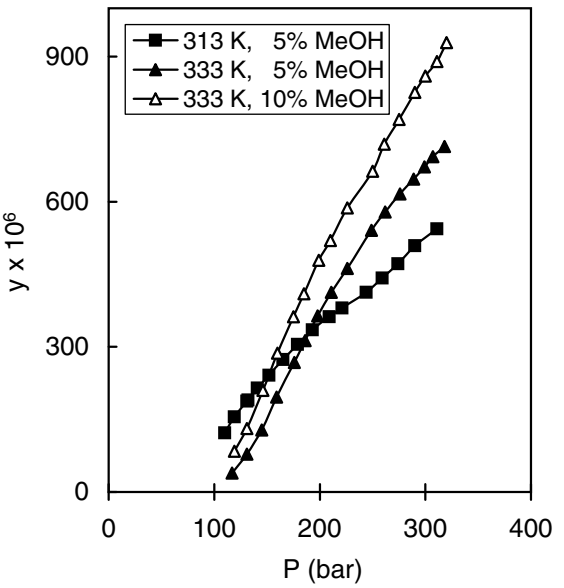
1: Cosolvent in CO_2.

Synonym: Benzo[*def*]phenanthrene

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997), 11(1,2), 37-51.

Pyrene ($C_{16}H_{10}$; MW=202.25) **[P-136]**

T (K)	P (bar)	Methanol[1)] (mol%)	y[1)] x 10^6
313	110	5	122
	119	5	155
	131	5	188
	132	5	190
	141	5	215
	152	5	241
	165	5	274
	179	5	305
	193	5	335
	209	5	362
	221	5	380
	244	5	413
	259	5	442
	274	5	472
	290	5	509
	311	5	544
333	117	5	39
	131	5	78
	145	5	128
	159	5	196
	176	5	268
	186	5	313
	198	5	364
	211	5	413
	226	5	462
	249	5	541
	262	5	579
	276	5	616
	289	5	647
	299	5	672
	307	5	693
	318	5	714
333	119	10	84
	131	10	131
	146	10	210
	160	10	287
	175	10	362
	185	10	410
	199	10	479
	210	10	520
	226	10	587
	250	10	663
	261	10	719
	275	10	770



290	10	826
300	10	860
311	10	890
320	10	929

1: Cosolvent in CO_2.

Synonym: Benzo[*def*]phenanthrene

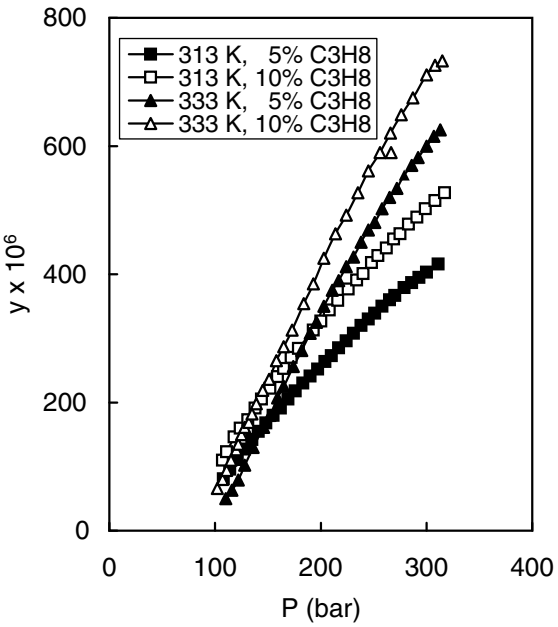
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

[P-137]

Pyrene ($C_{16}H_{10}$; MW=202.25)

T (K)	P (bar)	*n* -Propane[1)] (mol%)	y x 10^6
313	108	5	81
	114	5	96
	121	5	111
	128	5	127
	135	5	142
	141	5	155
	148	5	168
	155	5	180
	162	5	191
	169	5	205
	176	5	218
	183	5	230
	190	5	241
	197	5	252
	204	5	264
	210	5	273
	217	5	285
	224	5	296
	231	5	308
	238	5	320
	245	5	330
	251	5	339
	258	5	350
	265	5	360
	270	5	367
	279	5	379
	286	5	387
	293	5	395

	300	5	403
	311	5	416
313	107	10	110
	111	10	123
	118	10	146
	124	10	160
	131	10	173
	138	10	191
	144	10	205
	152	10	222
	159	10	240
	165	10	253
	172	10	270
	179	10	284
	193	10	313
	200	10	327
	208	10	344
	216	10	359
	226	10	377
	234	10	391
	240	10	401
	248	10	418
	254	10	429
	262	10	441
	269	10	455
	275	10	463
	283	10	478
	291	10	489
	299	10	502
	308	10	515
	317	10	527
333	110	5	50
	116	5	63
	122	5	79
	128	5	102
	136	5	130
	146	5	161
	152	5	180
	159	5	207
	165	5	225
	174	5	256
	182	5	281
	190	5	308
	196	5	325
	203	5	350
	211	5	375
	217	5	390
	224	5	412
	231	5	427
	238	5	450
	245	5	469

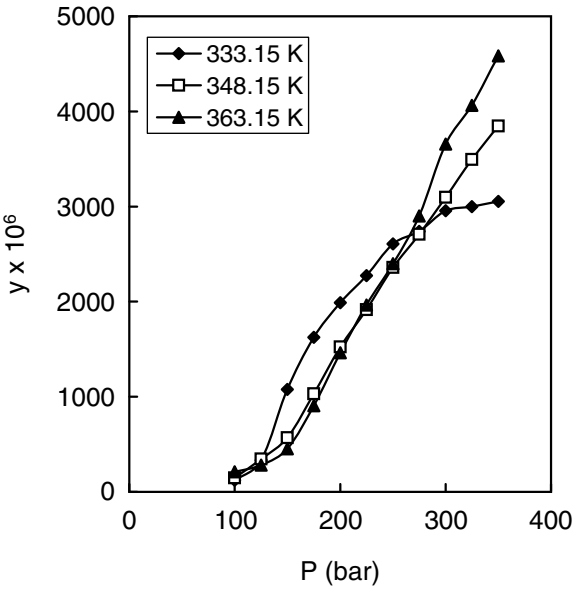


	251	5	481
	258	5	502
	265	5	520
	272	5	534
	279	5	555
	286	5	570
	292	5	582
	300	5	600
	307	5	615
	313	5	625
333	102	10	66
	107	10	80
	111	10	94
	115	10	110
	120	10	126
	122	10	135
	125	10	150
	128	10	161
	132	10	169
	135	10	182
	139	10	198
	145	10	219
	151	10	236
	158	10	265
	165	10	287
	173	10	313
	184	10	354
	193	10	385
	203	10	425
	214	10	463
	224	10	492
	235	10	527
	245	10	561
	256	10	590
	266	10	620
	276	10	649
	287	10	675
	300	10	711
	308	10	726
	315	10	733

1: Cosolvent in CO_2.
Synonym: Benzo[*def*]phenanthrene
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1997),11(1,2), 37-51.

Pyrocatechol ($C_6H_6O_2$; MW=110.11) **[P-138]**

T (K)	P (bar)	y x 10^6
333.15	100	122
	125	335
	150	1078
	175	1625
	200	1990
	225	2273
	250	2608
	275	2738
	300	2957
	325	2998
	350	3054
348.15	100	148
	125	345
	150	569
	175	1031
	200	1524
	225	1917
	250	2358
	275	2708
	300	3096
	325	3494
	350	3847
363.15	100	210
	125	283
	150	453
	175	906
	200	1463
	225	1963
	250	2400
	275	2900
	300	3656
	325	4065
	350	4583

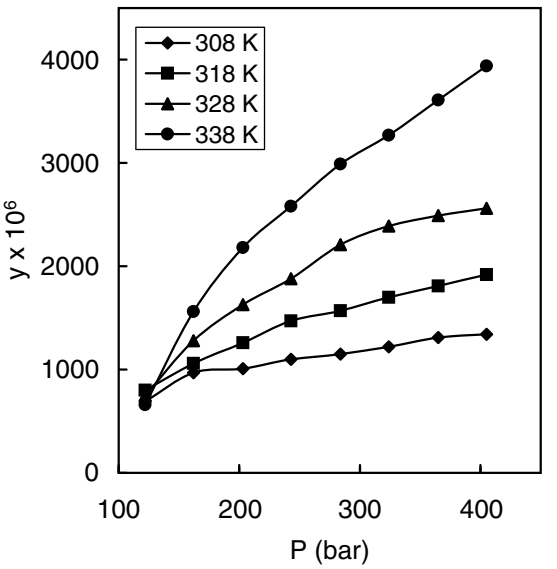


Synonyms: 1,2-Benzenediol; Catechol

Source: Julian, G.-G.; Molina, M. J.; Rodriguez, F.; Mirada, F. *J. Chem. Eng. Data* (2001), 46(4), 918-921.

Pyrocatechol ($C_6H_6O_2$; MW=110.11) **[P-139]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	122	1.33	690
	162	2.02	970
	203	2.20	1010
	243	2.47	1100
	284	2.65	1150
	324	2.87	1220
	365	3.14	1310
	405	3.27	1340
318	122	1.33	800
	162	2.02	1060
	203	2.57	1260
	243	3.13	1470
	284	3.45	1570
	324	3.85	1700
	365	4.18	1810
	405	4.54	1920
328	122	0.98	750
	162	2.19	1280
	203	3.12	1630
	243	3.78	1880
	284	4.63	2210
	324	5.18	2390
	365	5.53	2490
	405	5.82	2560
338	122	0.67	660
	162	2.34	1560
	203	3.79	2180
	243	4.86	2580
	284	5.95	2990
	324	6.77	3270
	365	7.71	3610
	405	8.63	3940

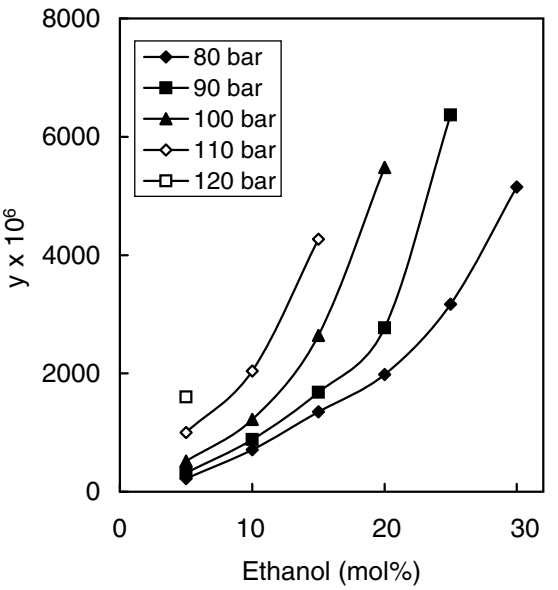


Synonyms: 1,2-Benzenediol; Catechol
Source: Yamini, Y.; Fathi, M. R.; Alizadeh, N .; Shamsipur, M. *Fluid Phase Equil.* (1998), 152(2), 299-305.

17 Solubility Data Q

Quercetin ($C_{15}H_{10}O_7$; MW=302.24) **[Q-1]**

T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
313.15	80	5	220
		10	710
		15	1350
		20	1980
		25	3170
		30	5150
	90	5	320
		10	880
		15	1680
		20	2770
		25	6370
	100	5	520
		10	1220
		15	2640
		20	5480
	110	5	1000
		10	2040
		15	4270
	120	5	1600



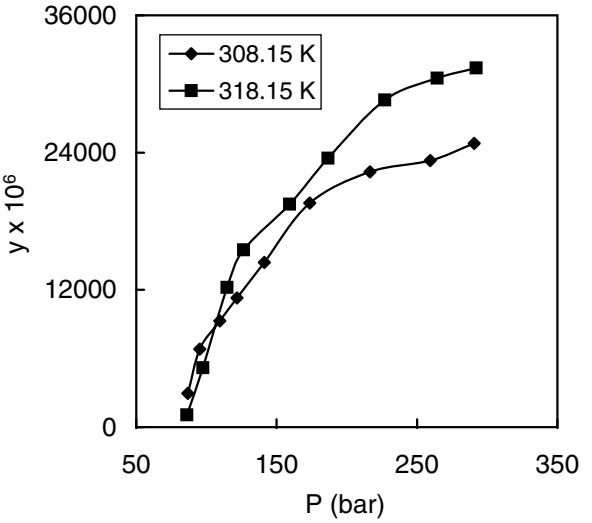
1: Cosolvent in CO_2.

Synonym: 3,3',4',5,7-Pentahydroxyflavone

Source: Chafer, A.; Fornari, T.; Berna, A.; Stateva, R. P. *J. Supercrit. Fluids* (2004), 32(1-3), 89-96.

***p*-Quinone** ($C_6H_4O_2$; MW=108.09) **[Q-2]**

T (K)	P (bar)	y x 10^6
308.15	86.7	2950
	95.1	6820
	109.5	9280
	121.8	11300
	141.2	14400
	173.6	19600
	216.4	22300
	259.3	23300
	290.7	24800
318.15	86.1	1060
	97.4	5190
	114.6	12200
	126.4	15500
	159.3	19500
	186.6	23500
	227.1	28600
	264.4	30500
	292.1	31400

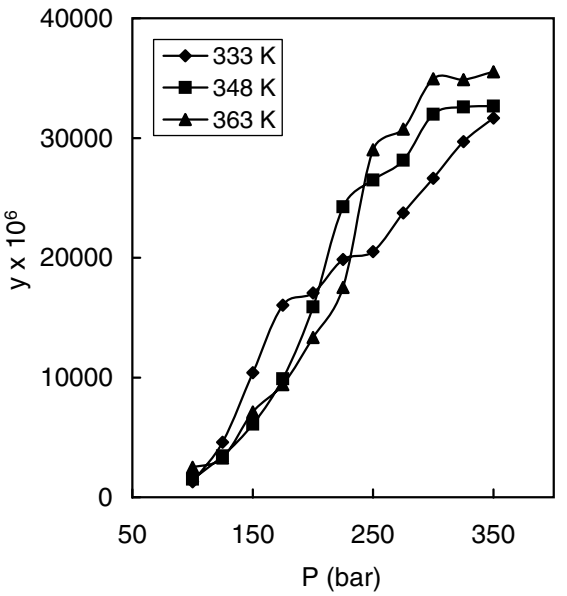


Synonyms: 1,4-Benzoquinone; *p*-Benzoquinone; Quinone

Source: Coutsikos, P.; Magoulas, K.; Tassios, D. *J. Chem. Eng. Data* (1997), 42(3), 463-466.

***p*-Quinone** ($C_6H_4O_2$; MW=108.09) **[Q-3]**

T (K)	P (bar)	y x 10^6
333	100	1300
	125	4600
	150	10390
	175	16030
	200	17070
	225	19850
	250	20520
	275	23740
	300	26630
	325	29700
	350	31670
348	100	1500
	125	3460
	150	6100
	175	9890
	200	15900
	225	24250
	250	26490
	275	28130
	300	31970
	325	32600
	350	32650



363	100	2500
	125	3290
	150	7110
	175	9400
	200	13330
	225	17510
	250	29020
	275	30740
	300	34940
	325	34880
	350	35540

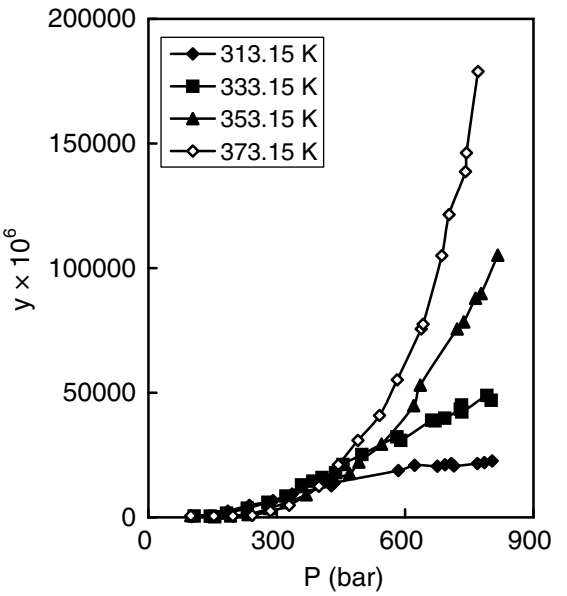
Synonyms: 1,4-Benzoquinone; *p*-Benzoquinone; Quinone

Source: Garcia-Gonzalez, J.; Molina, M. J.; Rodriguez, F.; Mirada, F. *Fluid Phase Equil.* (2002), 200(1), 31-39.

18 Solubility Data R

Rape seed oil[1)] **[R-1]**

T (K)	P (bar)	w × 10^6
313.15	101.1	244
	142.2	560
	185.6	2510
	235.8	4810
	291.4	6700
	335.7	9320
	427.4	12700
	434.5	13900
	584.1	18800
	622.1	20900
	675.4	20500
	693.2	21100
	708.2	21600
	714.1	20600
	768.8	21600
	785.1	22000
	803.4	22600
333.15	107.0	540
	144.8	492
	155.2	230
	182.7	1700
	231.1	3680
	279.3	6040
	321.6	8530
	358.0	13000
	384.3	14500
	405.9	16000
	437.6	17900
	454.8	21200
	499.0	25200
	581.1	32300
	589.9	30900
	662.1	39000
	670.2	38700
	692.8	39800
	729.3	43400

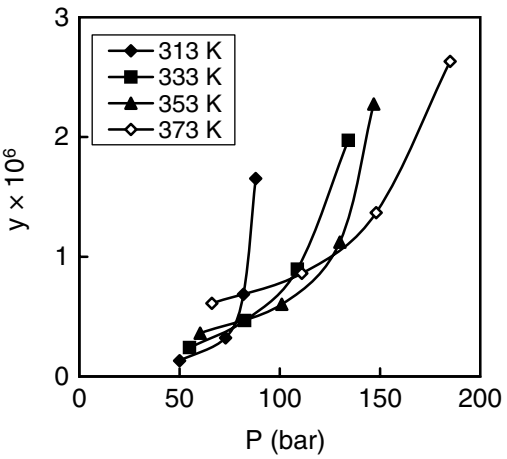


	732.0	45100
	732.7	42300
	791.0	48900
	801.1	47000
353.15	99.0	693
	146.2	629
	191.9	594
	232.9	1160
	282.6	3550
	321.8	5920
	368.6	9080
	417.7	14400
	470.3	17600
	491.9	22200
	545.0	29400
	619.9	44800
	635.4	53000
	721.7	75600
	737.1	78400
	764.6	87900
	777.7	89800
	816.5	105200
373.15	99.1	635
	152.8	545
	197.1	522
	242.4	788
	285.4	2520
	329.1	4870
	398.6	12500
	443.9	21100
	489.7	30900
	540.2	40900
	581.6	55200
	637.7	75600
	642.2	77500
	685.9	105000
	702.7	121500
	741.0	138700
	743.3	146200
	770.3	178900

1: Refined rapeseed oil with a low content of erucic acid.
Source: Klein, T.; Schulz, S. *Ind. Eng. Chem. Res.* (1989), 28(7), 1073-1081.

Reserpine ($C_{33}H_{40}N_2O_9$; MW=608.68) **[R-2]**

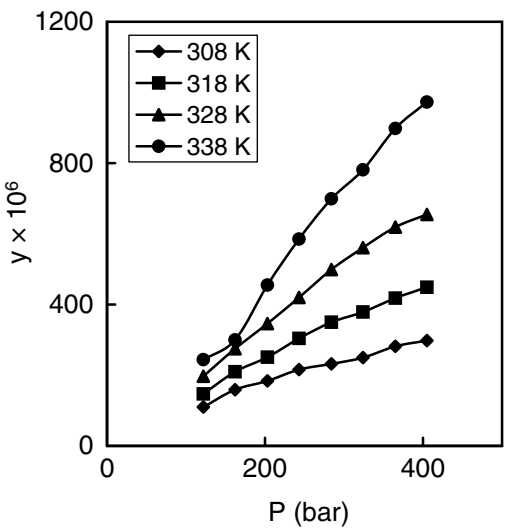
T (K)	P (bar)	y × 10^6
313	50.0	0.132
	73.0	0.323
	81.9	0.686
	88.0	1.653
333	55.0	0.241
	82.5	0.467
	108.8	0.896
	134.2	1.972
353	60.3	0.362
	101.0	0.603
	130.0	1.122
	146.9	2.276
373	66.1	0.611
	111.0	0.861
	148.1	1.368
	185.0	2.631



Synonym: 18β-Hydroxy-11, 17α-dimethoxy-3β, 20α-yohimban-16β-carboxylic acid methyl ester 3,4,5-trimethoxybenzoate
Source: Tzvetkova, E., Doctoral Thesis, Siegen University, Siegen, Germany, 2001.

Resorcinol ($C_6H_6O_2$; MW=110.11) **[R-3]**

T (K)	P (bar)	S (g/L)	y × 10^6
308	122	0.21	110
	162	0.33	159
	203	0.40	184
	243	0.48	216
	284	0.53	232
	324	0.59	250
	365	0.68	282
	405	0.73	298
318	122	0.24	147
	162	0.40	210
	203	0.51	251
	243	0.65	304
	284	0.77	350
	324	0.86	379
	365	0.96	418
	405	1.06	449
328	122	0.26	197
	162	0.47	275
	203	0.65	346
	243	0.84	420
	284	1.04	499
	324	1.22	561
	365	1.38	619
	405	1.49	655

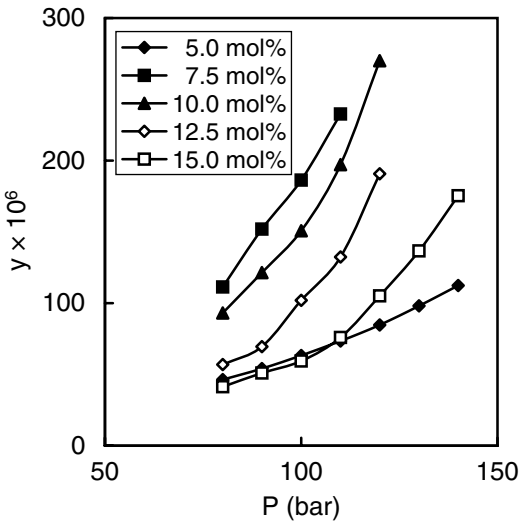


338	122	0.24	244
	162	0.45	300
	203	0.79	455
	243	1.10	585
	284	1.39	699
	324	1.62	781
	365	1.92	898
	405	2.13	973

Synonyms: 1,3-Benzenediol; 1,3-Dihydroxybenzene
Source: Yamini, Y.; Fat'hi, M. R.; Alizadeh, N.; Shamsipur, M. *Fluid Phase Equil.* (1998), 152(2), 299-305.

Resveratrol ($C_{14}H_{12}O_3$; MW=228.24) **[R-4]**

T (K)	P (bar)	Ethanol[1)] (mol %)	y × 10^6
313	80	5.0	46.4
	90	5.0	54.1
	100	5.0	63.3
	110	5.0	73.5
	120	5.0	84.7
	130	5.0	98.1
	140	5.0	112.4
	80	7.5	111.3
	90	7.5	151.9
	100	7.5	186.3
	110	7.5	232.7
	80	10.0	93.1
	90	10.0	121.4
	100	10.0	150.8
	110	10.0	197.2
	120	10.0	270.1
	80	12.5	56.9
	90	12.5	69.5
	100	12.5	102.0
	110	12.5	132.4
	120	12.5	190.7
	80	15.0	41.4
	90	15.0	51.0
	100	15.0	59.4
	110	15.0	75.9
	120	15.0	105.1
	130	15.0	136.6
	140	15.0	175.4

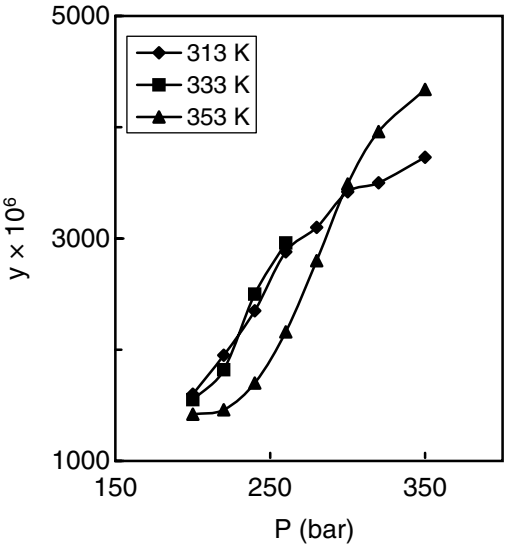


1 : Cosolvent in CO_2.

Synonyms: (*E*)-Resveratrol; 3,4',5-Stilbenetriol; 3,4',5-Trihydroxy-*trans*-stilbene
Source: Berna, A.; Chafer, A.; Monton, J. B.; Subirats, S. *J. Supercrit. Fluids* (2001), 20(2), 157-162.

Retinol ($C_{20}H_{30}O$; MW=286.45) **[R-5]**

T (K)	P (bar)	W (g/kg)	y × 10^6
313	200	10.3	1600
	220	12.5	1950
	240	15.1	2350
	260	18.5	2880
	280	19.8	3100
	300	21.8	3420
	320	22.4	3500
	350	23.8	3730
333	200	10.0	1550
	220	11.7	1820
	240	16.0	2500
	260	19.0	2960
353	200	9.2	1420
	220	9.4	1460
	240	11.0	1700
	260	13.9	2160
	280	18.0	2800
	300	22.3	3490
	320	25.2	3960
	350	27.6	4340

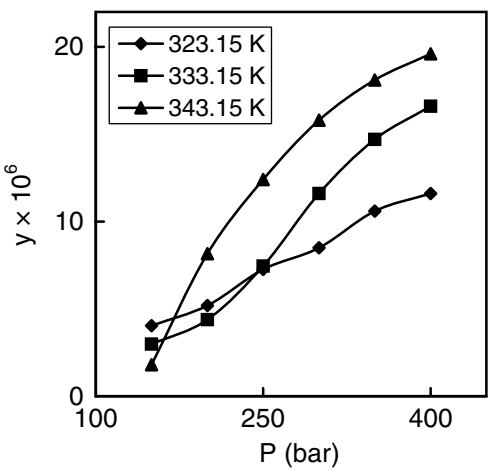


Synonyms: Vitamin A; all-*trans*-Retinol; (all-*E*)-3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraen-1-ol

Source: Johannsen, M. ; Brunner, G. *J. Chem. Eng. Data* (1997), 42(1), 106-111.

Rhodium tris(diisopropyldithiocarbamate) ($C_{21}H_{42}N_3RhS_6$; FW=631.87) **[R-6]**

T (K)	P (bar)	M x 10^6 (mol/L)	y[1)] x 10^6
323.15	150	64.4	4.04
	200	92.6	5.19
	250	137.9	7.26
	300	168.4	8.50
	350	217.4	10.60
	400	243.7	11.60
333.15	150	41.1	2.98
	200	72.2	4.38
	250	133.5	7.45
	300	218.5	11.60
	350	288.8	14.70
	400	336.3	16.60
343.15	150	20.9	1.80
	200	122.7	8.16
	250	208.5	12.40
	300	284.1	15.80

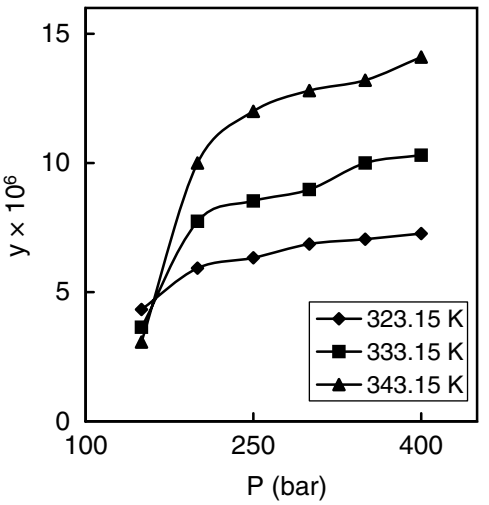


350	339.9	18.10
400	381.5	19.60

1: Calculated from M.
Synonym: Tris(diisopropyldithiocarbamato)rhodium
Source: Wenclawiak, B.W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340. (*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Rhodium tris(methylthioglycolate) ($C_9H_{15}O_6RhS_3$; FW=418.31) **[R-7]**

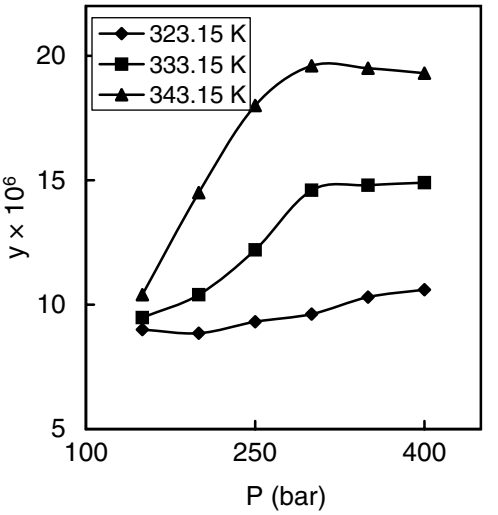
T (K)	P (bar)	M × 10^6 (mol/L)	$y^{1)}$ × 10^6
323.15	150	69.1	4.33
	200	106.0	5.93
	250	120.3	6.33
	300	136.0	6.86
	350	144.4	7.05
	400	152.8	7.27
333.15	150	50.2	3.64
	200	127.7	7.74
	250	152.8	8.53
	300	169.5	8.97
	350	196.7	10.00
	400	209.3	10.30
343.15	150	35.6	3.07
	200	150.7	10.00
	250	201.9	12.00
	300	230.2	12.80
	350	249.0	13.20
	400	275.2	14.10



1: Calculated from M.
Synonyms: $Rh(MTG)_3$; Tris(methylthioglycolato)rhodium
Source: Wenclawiak, B.W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340. (*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Rhodium tris(2,2,6,6-tetramethyl-3,5-heptanedionate) ($C_{33}H_{57}O_6Rh$; FW=652.72) **[R-8]**

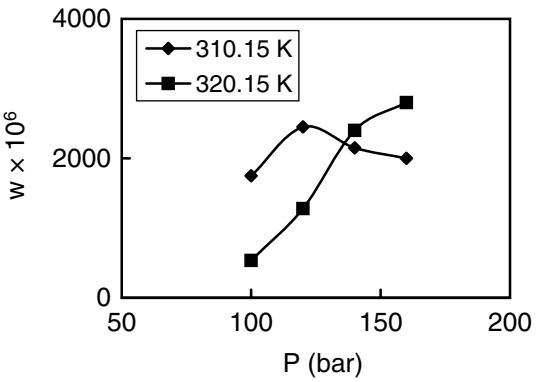
T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)} \times 10^6$
323.15	150	143.7	9.00
	200	158.1	8.85
	250	176.8	9.31
	300	190.7	9.62
	350	210.8	10.30
	400	222.3	10.60
333.15	150	131.0	9.48
	200	171.7	10.40
	250	219.2	12.20
	300	275.7	14.60
	350	291.0	14.80
	400	302.8	14.90
343.15	150	120.2	10.40
	200	218.7	14.50
	250	302.8	18.00
	300	351.6	19.60
	350	366.0	19.50
	400	377.3	19.30



1: Calculated from M.
Synonym: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)rhodium
Source: Wenclawiak, B.W.; Wolf, A.; Wilnewski, S. in: *Supercritical Fluids as Solvents and Reaction Media*, Brunner, G. (ed.), Elsevier B.V., Amsterdam, Netherlands (2004), 323-340. (*Another source*: Wolf, A.: Sc.D. Thesis, Siegen University, Germany, 1999.)

Rosemary Oil **[R-9]**

T (K)	P (bar)	w × 10^6
310.15	100	1750
	120	2450
	140	2150
	160	2000
320.15	100	535
	120	1280
	140	2400
	160	2800

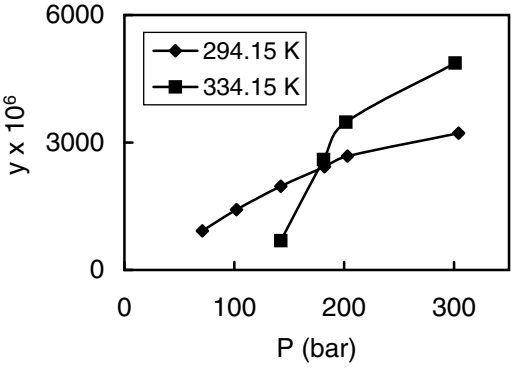


Source: Coelho, L. A. F.; Oliveira, J. V.; D'Avila, S. G.; Vilegas, J. H. Y.; Lancas, F. M. *J. High Resol. Chromatogr.* (1997), 20(8), 431-436.

19 Solubility Data S

Salen ($C_{16}H_{16}N_2O_2$; MW=268.31) **[S-1]**

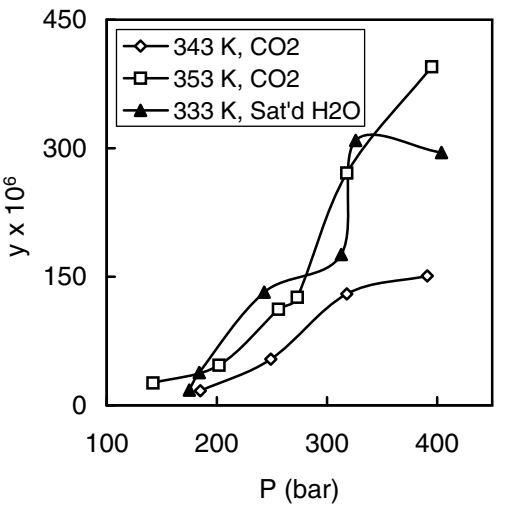
T (K)	P[1)] (bar)	y[1)] x 10^6
294.15	70.9	920
	102.0	1420
	142.4	1970
	182.1	2430
	203.0	2680
	304.1	3220
334.15	142.4	690
	181.3	2600
	201.5	3480
	301.0	4870



1: Obtained by digitizing the graph in the original article.
Synonym: *N,N'*-Bis(salicylidene)-1,2-ethanediamine; α,α'-Ethylenedinitrilodi-*o*-cresol
Source: Koh, S.; Jeon, B.; Kim, H.; Park, K.; Kim, H. *Bull. Korean Chem. Soc.* (2004), 25(4), 471-474.

Salinomycin sodium salt ($C_{42}H_{69}NaO_{11}$; FW=772.99) **[S-2]**

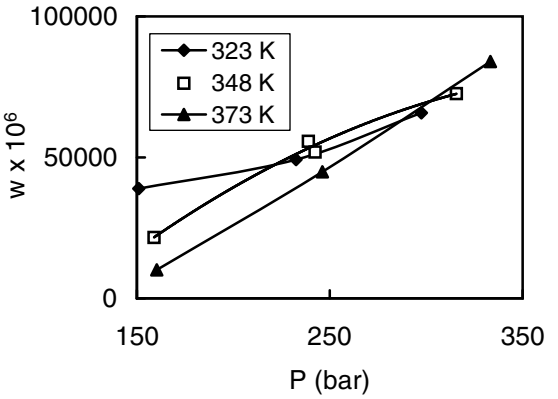
T (K)	P (bar)	Water[1)]	y x 10^6
343.15	185	0	17.0
	249	0	53.9
	318	0	130.0
	391	0	151.0
353.15	142	0	26.1
	202	0	46.7
	256	0	112.0
	273	0	126.0
	318	0	271.0
	395	0	395.0
333.15	175	Saturated	17.7
	184	Saturated	38.2
	243	Saturated	132.0
	313	Saturated	176.0
	326	Saturated	309.0
	404	Saturated	295.0



1: Cosolvent in CO_2.
Source: Maxwell, R.; Hampson, J.; Cygnarowicz-Provost, M. *J. Supercrit. Fluids* (1992), 5(1), 31-37.

Shale oil[1)] **[S-3]**

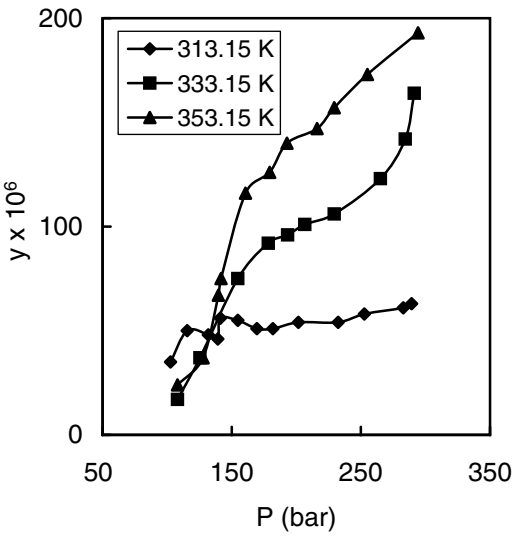
T (K)	P[2)] (bar)	S[3)] (g/L)	w[4)] x 10^6
323	151.0	28.6	38900
	232.5	42.5	49200
	297.5	61.3	65800
348	158.9	11.2	21600
	238.9	41.3	55700
	242.4	38.6	51900
	315.7	61.3	72600
373	160.3	3.8	10100
	246.2	27.5	44900
	333.3	64.3	84000



1: An atmospheric residue of shale oil originating from Aleksinac oil shale (Yugoslavia).
2: Calculated from density (obtained by digitizing the graph) and temperature.
3: Obtained by digitizing the graph in the original article.
4: Calculated from S.
Source: Sokic, M.; Skala, D. *J. Serb. Chem. Soc.* (1992), 57(5-6), 353-357.

Simazine ($C_7H_{12}ClN_5$; MW=201.66) **[S-4]**

T (K)	P (bar)	y[1)] x 10^6
313.15	102.6	35
	115.5	50
	131.9	48
	139.2	46
	141.2	56
	154.7	55
	169.5	51
	181.9	51
	201.6	54
	232.4	54
	252.7	58
	282.8	61
	289.3	63
333.15	108.0	17
	125.4	37
	154.7	75
	178.3	92
	193.3	96
	206.6	101
	229.4	106
	265.1	123
	284.3	142
	291.3	164

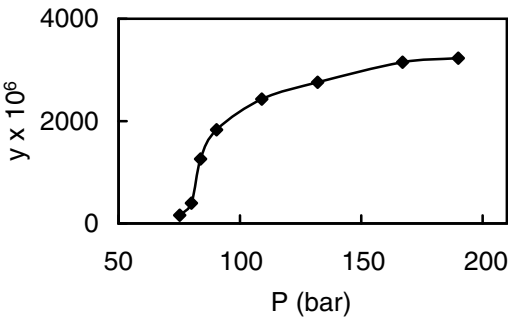


353.15	108.0	24
	127.8	37
	139.7	67
	141.7	75
	160.6	116
	179.3	126
	192.8	140
	216.1	147
	229.4	157
	255.1	173
	294.2	193

1: Obtained by digitizing the graph in the original article.
Synonym: 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine
Source: Knez, Z.; Rizner-Hras, A.; Kokot, K.; Bauman, D. *Fluid Phase Equil.* (1998), 152(1), 95-108.

Skatole (C_9H_9N; MW=131.17) **[S-5]**

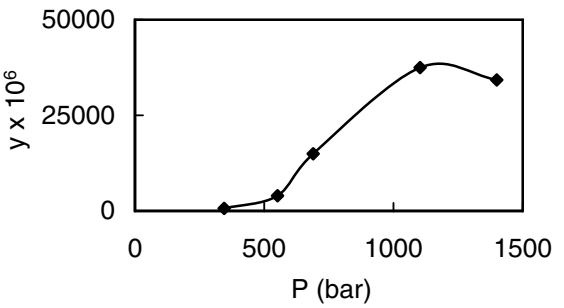
T (K)	P (bar)	y x 10^6
308.15	75.2	161
	80.0	397
	83.8	1260
	90.4	1830
	109.0	2430
	132.0	2760
	167.0	3150
	190.0	3230



Synonym: 3-Methylindole
Source: Sako, S.; Shibata, K.; Ohgaki, K.; Katayama, T. *J. Supercrit. Fluids* (1989), 2(1), 3-8.

Soybean oil[1)] **[S-6]**

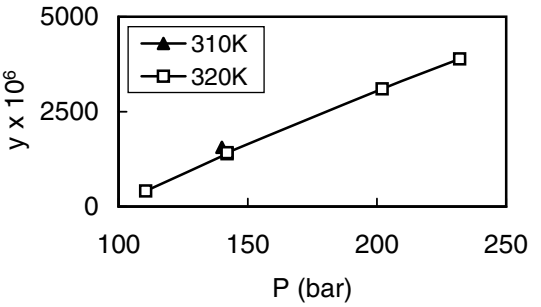
T (K)	P (bar)	y x 10^6
345.15	345	680
	552	3980
	690	14950
	1103	37490
	1400	34230



1: A refined, bleached and deodorized commercial soybean oil.
Source: Eissler, R.; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.

Squalane ($C_{30}H_{62}$; MW=422.81) **[S-7]**

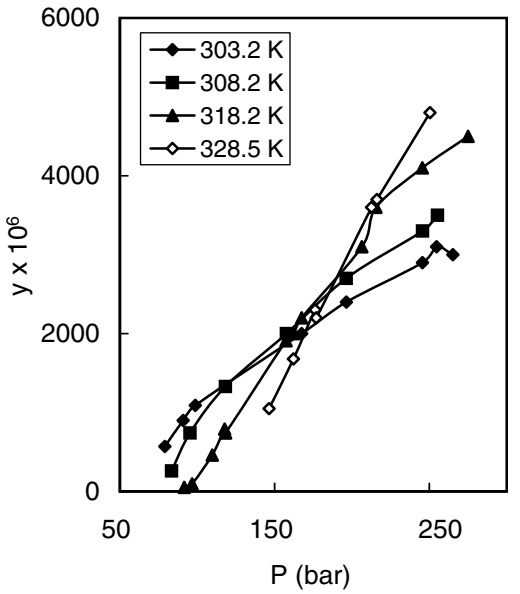
T (K)	P (bar)	y x 10^6
310	140.0	1560
320	110.5	410
	142.0	1390
	142.0	1420
	202.0	3100
	232.0	3890



Synonym: 2,6,10,15,19,23-Hexamethyltetracosane
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Squalane ($C_{30}H_{62}$; MW=422.81) **[S-8]**

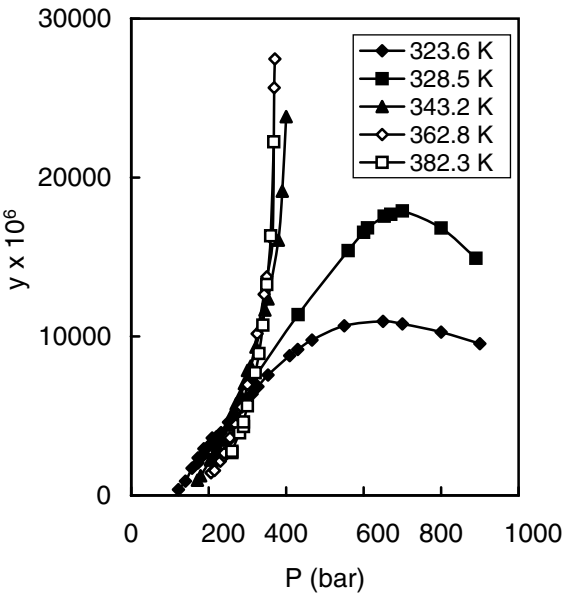
T (K)	P (bar)	y x 10^6
303.2	79.1	570
	90.9	900
	98.7	1090
	167.5	2000
	196.4	2400
	245.5	2900
	254.7	3100
	265.2	3000
308.2	83.4	260
	95.3	740
	118.2	1330
	157.6	2000
	196.3	2700
	245.6	3300
	255.3	3500
318.2	91.6	51
	96.6	96
	109.7	460
	117.7	790
	118.3	740
	157.4	1910
	162.4	2000
	167.5	2200
	206.4	3100
	215.5	3600
	245.4	4100
	275.0	4500
328.5	146.4	1050
	162.2	1680
	176.2	2300
	176.9	2200
	212.6	3600
	216.1	3700
	250.4	4800



Synonym: 2,6,10,15,19,23-Hexamethyltetracosane
Source: Sovova, H.; Jez, J.; Khachaturyan, M. *Fluid Phase Equil.* (1997), 137(1-2), 185-191.

Squalane ($C_{30}H_{62}$; MW=422.81) **[S-9]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
323.6	122.0	2.10	367
	140.0	5.80	899
	157.0	11.76	1710
	172.5	16.94	2364
	172.5	14.65	2045
	182.5	18.31	2501
	182.5	17.91	2447
	187.5	21.71	2937
	187.5	19.11	2586
	200.0	23.42	3102
	209.0	27.67	3614
	209.0	25.49	3330
	220.5	28.72	3693
	232.0	31.18	3953
	251.0	37.10	4606
	267.0	41.44	5065
	285.0	47.12	5669
	294.5	50.34	6010
	312.0	54.12	6377
	327.0	58.73	6848
	353.0	66.07	7577
	409.0	79.04	8794
	430.0	83.35	9182
	466.5	90.13	9774
	550.0	101.40	10670
	650.0	107.22	10950
	700.0	106.89	10790
	800.0	104.03	10270
	900.0	98.45	9543
328.5	310.0	58.95	7107
	431.0	101.75	11370
	560.0	145.53	15400
	600.0	158.62	16550
	610.0	161.85	16830
	653.0	171.19	17570
	670.0	173.15	17690
	700.0	176.57	17900
	800.0	169.69	16820
	890.0	152.99	14920
343.2	171.0	5.43	958
	179.0	7.26	1232
	205.0	14.39	2227



	205.0	14.56	2253
	215.0	17.24	2598
	215.0	17.17	2588
	222.5	20.90	3094
	222.5	20.31	3007
	233.0	24.14	3495
	233.0	24.08	3486
	250.0	31.54	4425
	262.0	37.92	5218
	271.0	42.44	5763
	282.5	47.17	6307
	292.0	53.33	7045
	300.0	60.13	7866
	308.5	62.84	8144
	322.0	73.10	9336
	338.0	86.07	10820
	345.0	93.45	11660
	353.0	99.76	12360
	380.0	132.75	16060
	390.0	159.85	19140
	400.0	201.31	23830
362.8	206.0	7.55	1418
	215.0	8.63	1562
	230.0	12.50	2145
	240.0	14.82	2468
	240.0	15.98	2661
	255.0	22.09	3536
	255.0	22.65	3625
	270.0	28.81	4458
	285.0	36.94	5548
	300.0	47.64	6968
	325.0	72.27	10170
	343.0	92.20	12650
	350.0	101.10	13750
	365.0	120.58	16100
	369.0	194.76	25650
	371.0	209.31	27460
382.3	260.0	14.73	2691
	260.0	15.18	2773
	280.0	22.77	3936
	290.0	25.69	4335
	290.0	27.37	4617
	300.0	34.16	5633
	320.0	48.76	7720
	330.0	57.44	8928
	340.0	70.17	10710
	350.0	88.47	13270
	360.0	110.74	16330
	368.0	153.44	22250

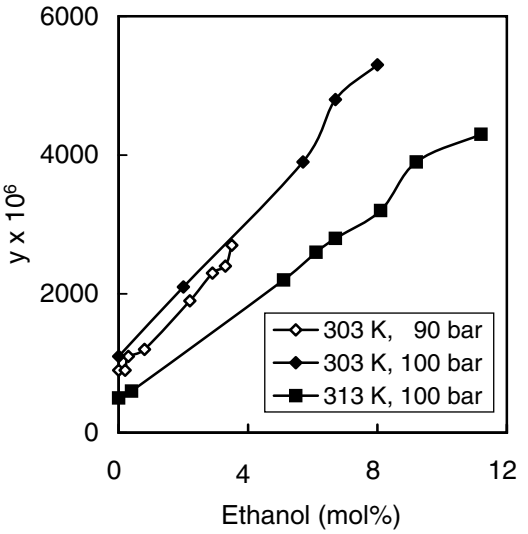
1: Calculated from S.

Synonym: 2,6,10,15,19,23-Hexamethyltetracosane

Source: Swaid, I.; Nickel, D.; Schneider, G. M. *Fluid Phase Equil.* (1985), 21(1-2), 95-112.

Squalane ($C_{30}H_{62}$; MW=422.81) **[S-10]**

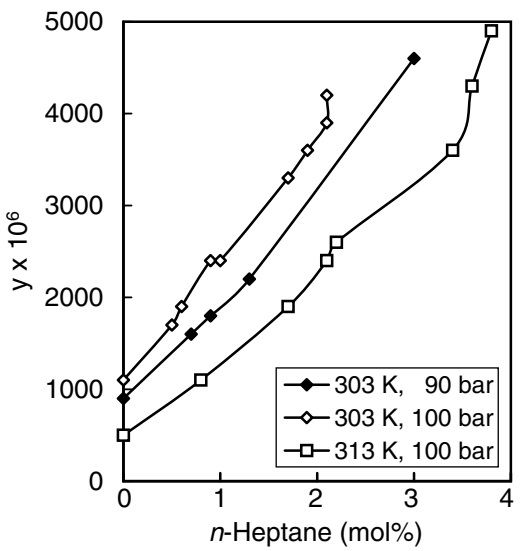
T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
303.15	90	0.0	900
		0.2	900
		0.3	1100
		0.8	1200
		2.2	1900
		2.9	2300
		3.3	2400
		3.5	2700
	100	0.0	1100
		2.0	2100
		5.7	3900
		6.7	4800
		8.0	5300
313.15	100	0.0	500
		0.4	600
		5.1	2200
		6.1	2600
		6.7	2800
		8.1	3200
		9.2	3900
		11.2	4300



1: Cosolvent in CO_2.
Synonym: 2,6,10,15,19,23-Hexamethyltetracosane
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Squalane($C_{30}H_{62}$; MW=422.81) **[S-11]**

T (K)	P (bar)	*n*-Heptane[1)] (mol%)	y x 10^6
303.15	90	0.0	900
		0.7	1600
		0.9	1800
		1.3	2200
		3.0	4600
	100	0.0	1100
		0.5	1700
		0.6	1900
		0.9	2400
		1.0	2400
		1.7	3300
		1.9	3600
		2.1	3900
		2.1	4200

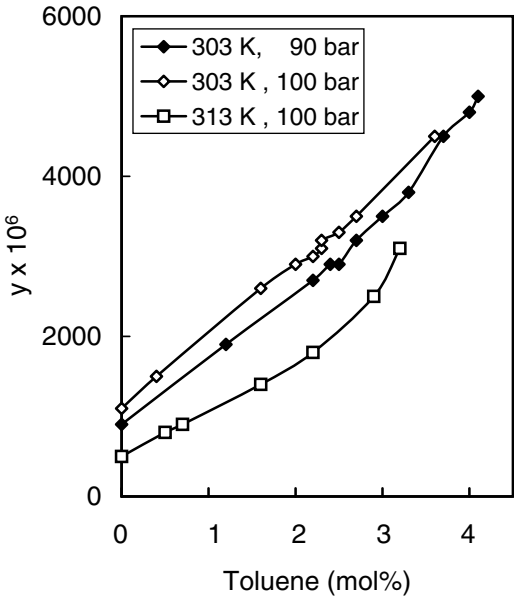


313.15	100	0.0	500
		0.8	1100
		1.7	1900
		2.1	2400
		2.2	2600
		3.4	3600
		3.6	4300
		3.8	4900

1: Cosolvent in CO_2.
Synonym: 2,6,10,15,19,23-Hexamethyltetracosane
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Squalane($C_{30}H_{62}$; MW=422.81) **[S-12]**

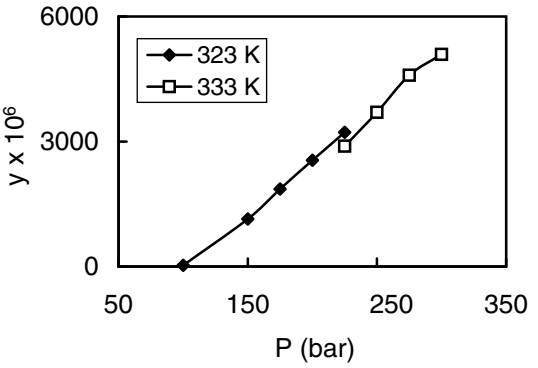
T (K)	P (bar)	Toluene[1)] (mol%)	y x 10^6
303.15	90	0.0	900
		1.2	1900
		2.2	2700
		2.4	2900
		2.5	2900
		2.7	3200
		3.0	3500
		3.3	3800
		3.7	4500
		4.0	4800
		4.1	5000
	100	0.0	1100
		0.4	1500
		1.6	2600
		2.0	2900
		2.2	3000
		2.3	3100
		2.3	3200
		2.5	3300
		2.7	3500
		3.6	4500
313.15	100	0.0	500
		0.5	800
		0.7	900
		1.6	1400
		2.2	1800
		2.9	2500
		3.2	3100



1: Cosolvent in CO_2.
Synonym: 2,6,10,15,19,23-Hexamethyltetracosane
Source: Sovova, H.; Rat, V.; Khachaturyan, M.; Vlcek, D. *J. Supercrit. Fluids* (1999), 14(2), 145-149.

Squalene ($C_{30}H_{50}$; MW=410.72) **[S-13]**

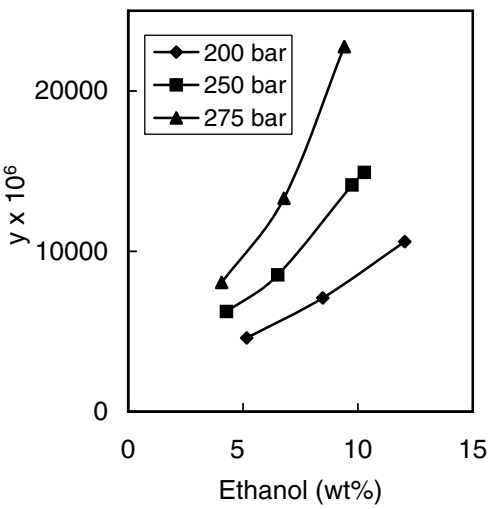
T (K)	P (bar)	W (g/kg CO_2)	$y^{1)}$ x 10^6
323	100	0.27	29
	150	10.63	1140
	175	17.38	1860
	200	23.84	2550
	225	30.12	3220
333	225	27.05	2890
	250	34.65	3700
	275	43.00	4590
	300	47.70	5090



1: Calculated from W.
Synonym: (all-*E*)-2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene
Source: Catchpole, O. J. ; Grey, J. B. ; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.

Squalene ($C_{30}H_{50}$; MW=410.72) **[S-14]**

T (K)	P (bar)	Ethanol[1)] (wt%)	W[2)] (g/kg CO_2)	$y^{3)}$ x 10^6
333	200	5.16	45.22	4600
		8.47	72.07	7090
		12.04	111.30	10600
333	250	4.28	61.14	6250
		6.51	85.28	8530
		9.74	146.30	14140
		10.28	155.30	14920
333	275	4.07	78.83	8060
		6.78	134.10	13310
		9.41	236.90	22760



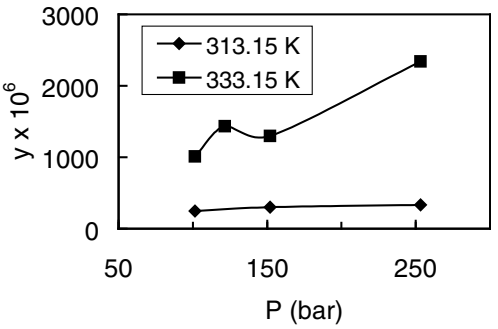
1: Cosolvent in CO_2 on a solute-free basis.
2: Mass solubility on a cosolvent-free basis.
3: Calculated from W on a solute-free basis.
Synonym: (all-*E*)-2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene
Source: Catchpole, O. J. ; Grey, J. B. ; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48)

[S-15]

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	101.3	1.02	246
	152.0	1.53	301
	253.3	1.90	333
333.15	101.3	1.97	1012
	121.6	4.19	1434
	152.0	5.16	1296
	253.3	12.01	2342

1: Calculated from S.
Synonym: Octadecanoic acid
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

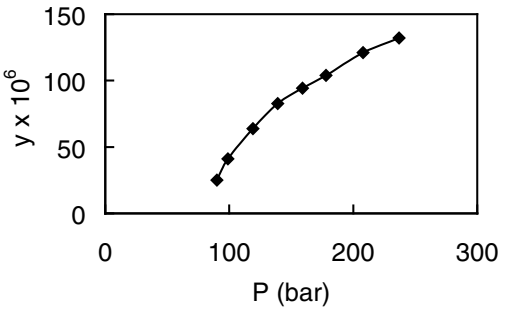


Stearic acid ($C_{18}H_{36}O_2$; MW=284.48)

[S-16]

T (K)	P (bar)	y x 10^6
308.15	90	25
	99	41
	119	64
	139	83
	159	94
	178	104
	208	121
	237	132

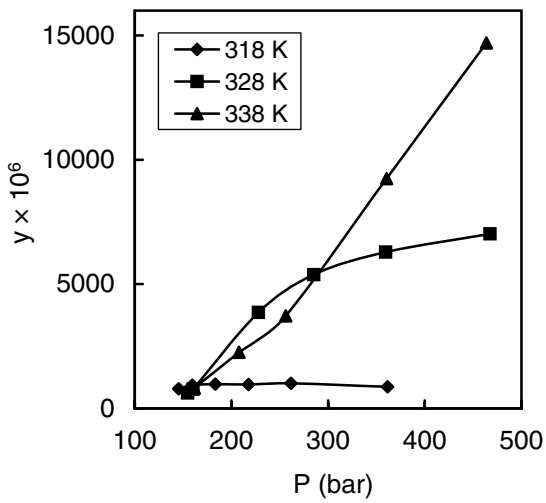
Synonym: Octadecanoic acid
Source: Iwai, Y.; Koga, Y.; Maruyama, H.; Arai, Y. *J. Chem. Eng. Data* (1993), 38(4), 506-508.



Stearic acid ($C_{18}H_{36}O_2$; MW=284.48)

[S-17]

T (K)	P (bar)	y × 10^6
318	145.4	791
	159.4	935
	183.3	979
	217.7	963
	261.6	1010
	361.5	870
328	154.8	621
	160.3	774
	228.0	3860
	285.2	5380
	359.5	6290
	467.5	7020
338	161.5	813
	207.8	2260
	256.1	3720

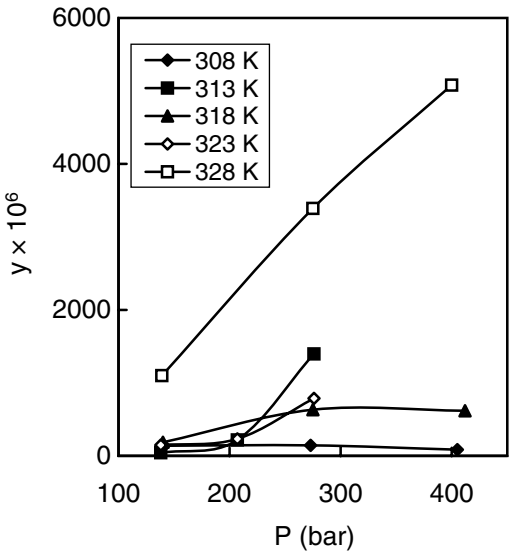


	360.5	9240
	463.8	14700

Synonym: Octadecanoic acid
Source: Kramer, A.; Thodos, G. *J. Chem. Eng. Data* (1988), 33(3), 230-234.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-18]**

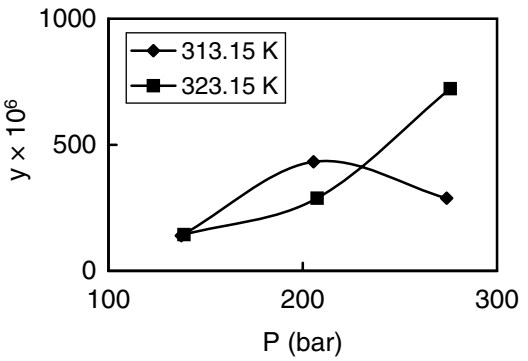
T (K)	P (bar)	W (g/kg CO_2)	$y^{1)} \times 10^6$
308	141	0.90	139
	273	0.93	144
	405	0.55	85
313	138	0.28	43
	207	1.40	217
	276	0.90	1397
318	140	1.20	186
	275	4.10	633
	412	4.00	618
323	138	0.96	148
	207	1.50	232
	276	5.10	788
328	139	7.10	1100
	275	22.00	3390
	400	33.00	5080



1: Calculated from W.
Synonym: Octadecanoic acid
Source: Maheshwari, P.; Nikolov, Z.; White, T.; Hartel, R. *J. Am. Oil Chem. Soc.* (1992), 69(11), 1069-1076.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-19]**

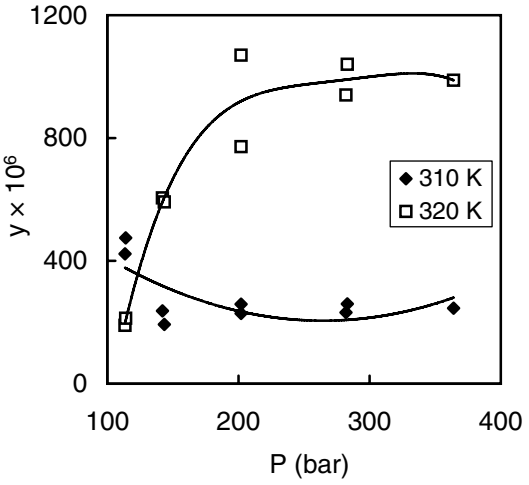
T (K)	$P^{1)}$ (bar)	$w^{1)} \times 10^6$	$y^{2)} \times 10^6$
313.15	138	900	139
	206	2790	433
	274	1860	288
323.15	139	930	144
	207	1860	288
	276	4650	722



1: Obtained by digitizing the graph in the original article.
2: Calculated from w.
Synonym: Octadecanoic acid
Source: Nikolov, Z.; Maheshwari, P.; Hardwick, J.; Murphy, P.; Johnson, L. *Develop. Food Sci.* (1992), 29, 595-616.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-20]**

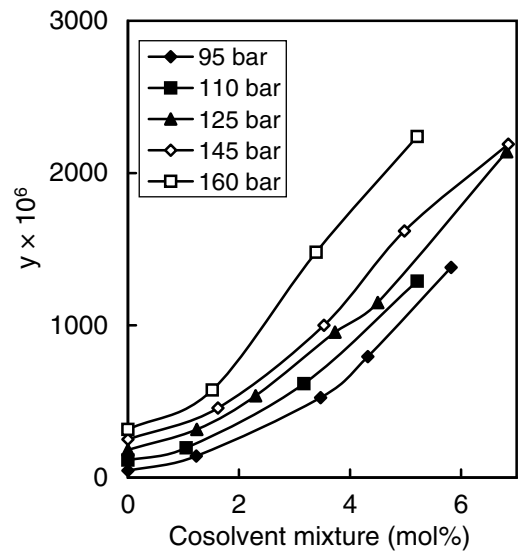
T (K)	P (bar)	y × 10^6
310	113.5	423
	114.0	475
	142.0	237
	143.5	193
	202.0	229
	202.0	259
	282.0	232
	283.0	260
	364.0	246
320	113.5	190
	114.0	213
	142.0	605
	143.5	592
	202.0	772
	202.0	1070
	282.0	940
	283.0	1040
	364.0	988



Synonym: Octadecanoic acid
Source: Schmitt, W. J.; Reid, R. C.
Chem. Eng. Comm. (1988), 64, 155-176.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-21]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y × 10^6
318.15	95	0.00	46
		1.23	141
		3.47	525
		4.32	794
		5.82	1380
	110	0.00	115
		1.05	195
		3.17	617
		5.21	1290
	125	0.00	182
		1.24	316
		2.30	537
		3.73	955
		4.50	1150
		6.82	2140
	145	0.00	251

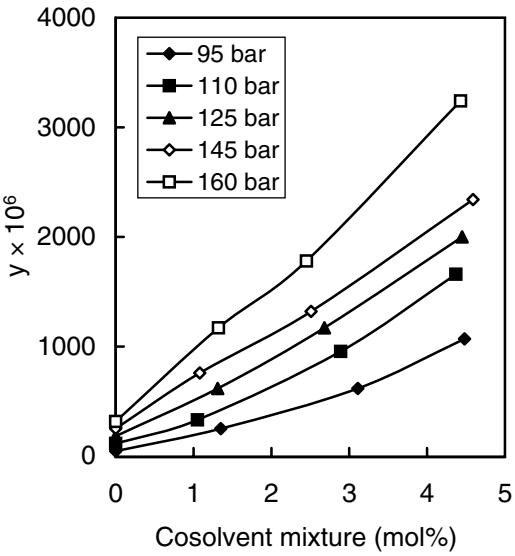


		1.62	457
		3.53	1000
		4.98	1620
		6.85	2190
	160	0.00	316
		1.52	575
		3.39	1480
		5.21	2240

1: Equimolar mixture of ethanol and acetonitrile.
Synonym: Octadecanoic acid
Source: Guan, B.; Han, B.; Yan, H. *Fluid Phase Equil.* (1998), 149(1-2), 277-286.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-22]**

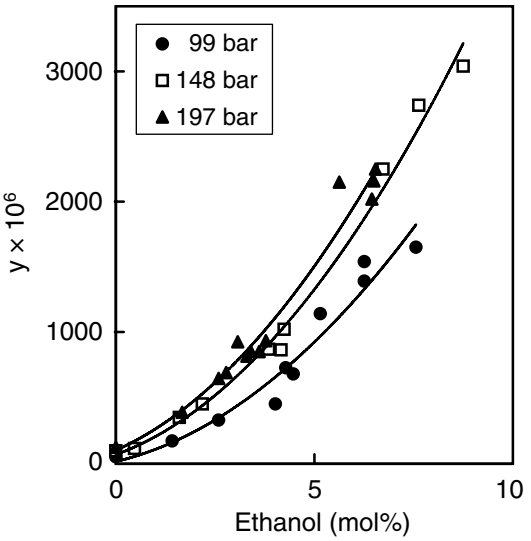
T (K)	P (bar)	Cosolvent[1)] (mol%)	$y \times 10^6$
318.15	95	0.00	46
		1.35	251
		3.11	617
		4.48	1070
	110	0.00	115
		1.05	331
		2.89	955
		4.37	1660
	125	0.00	182
		1.31	617
		2.68	1170
		4.45	2000
	145	0.00	251
		1.08	759
		2.51	1320
		4.59	2340
	160	0.00	316
		1.32	1170
		2.45	1780
		4.43	3240



1: Equimolar mixture of acetic acid and acetonitrile.
Synonym: Octadecanoic acid
Source: Guan, B.; Han, B.; Yan, H. *Fluid Phase Equil.* (1998), 149(1-2), 277-286.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-23]**

T (K)	P (bar)	Ethanol[1)] (mol%)	y x 10^6
308.2	99	0.00	41
		1.42	163
		2.59	323
		4.02	447
		4.28	725
		4.47	678
		5.15	1140
		6.26	1390
		6.26	1540
		7.56	1650
	148	0.00	88
		0.47	105
		1.60	344
		2.18	447
		3.85	867
		4.16	862
		4.24	1020
		6.73	2250
		7.63	2740
		8.75	3040
	197	0.00	115
		1.67	383
		2.59	643
		2.78	688
		3.07	924
		3.30	814
		3.40	850
		3.61	849
		3.78	933
		5.63	2150
		6.45	2020
		6.50	2160
		6.54	2250



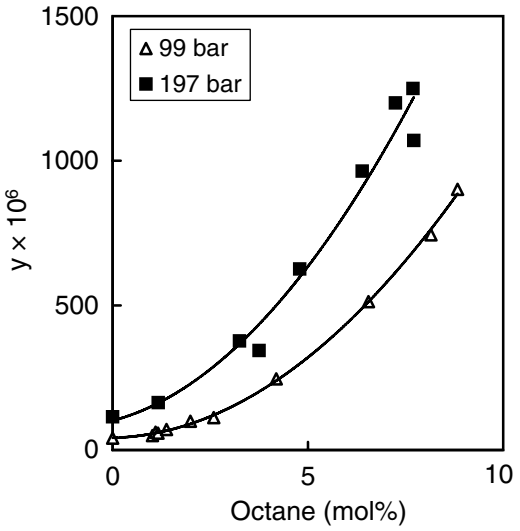
1: Cosolvent in CO_2.

Synonym: Octadecanoic acid

Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-24]**

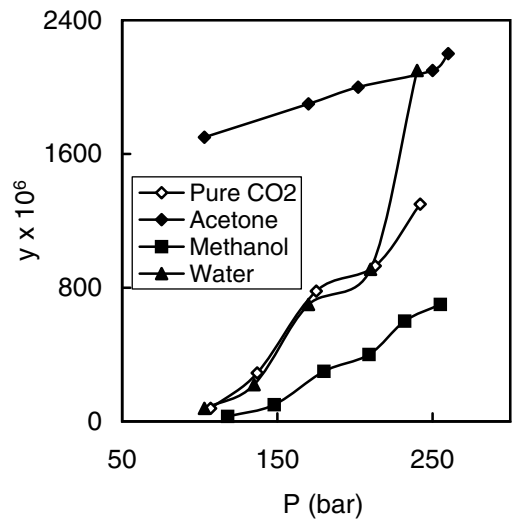
T (K)	P (bar)	Octane[1)] (mol%)	y × 10^6
308.2	99	0.00	41
		1.02	50
		1.10	62
		1.16	58
		1.38	71
		1.99	100
		2.59	112
		4.19	246
		6.55	513
		8.15	744
		8.83	901
	197	0.00	115
		1.17	164
		3.25	377
		3.75	344
		4.79	626
		6.39	964
		7.24	1200
		7.69	1250
		7.71	1070



1: Cosolventin CO_2.
Synonym: Octadecanoic acid
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-25]**

T (K)	P (bar)	Cosolvent (wt%)	y[1)] × 10^6
323.15	107	0.0	78
	137	0.0	290
	175	0.0	780
	213	0.0	930
	242	0.0	1300
		Acetone	
323.15	103	3.0	1700
	170	3.0	1900
	202	3.0	2000
	250	3.0	2100
	260	3.0	2200
		Methanol	
323.15	118	3.0	30
	148	3.0	100
	180	3.0	300
	209	3.0	400
	232	3.0	600
	255	3.0	700

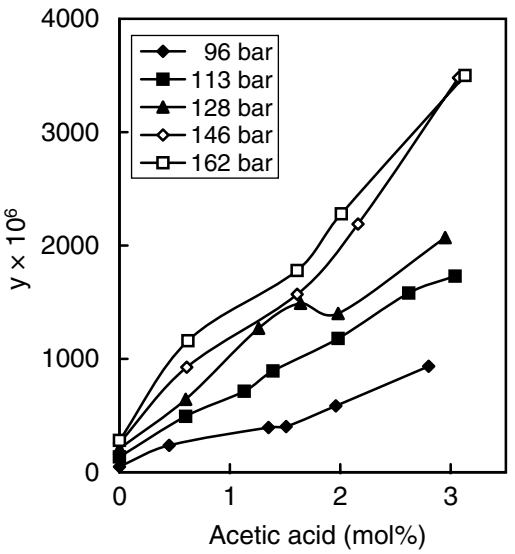


		Water	
323.15	103	3.0	78
	135	3.0	220
	170	3.0	700
	210	3.0	910
	240	3.0	2100

1: Obtained by digitizing the graph in the original article. Some data may not be accurate as the source graph is in a semi-log scale with a small span.
Synonym: Octadecanoic acid
Source: Noh, M. J.; Kim, T. G.; Hong, I. K.; Yoo, K.-P. *Korean J. Chem. Eng.* (1995), 12(1), 48-55.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-26]**

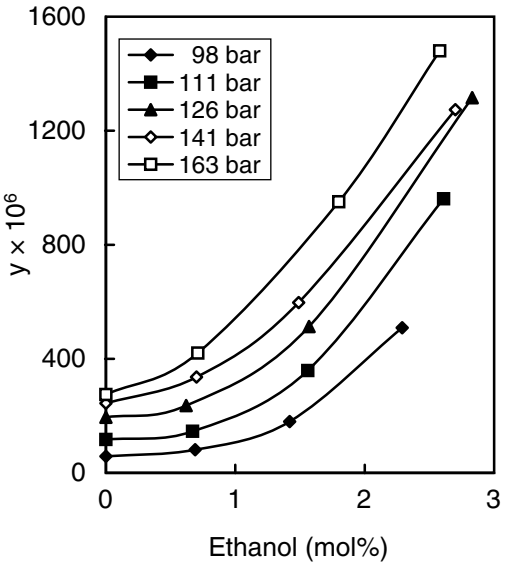
T (K)	P (bar)	Acetic acid[1)] (mol %)	y x 10^6
318.15	96	0.00	49
		0.45	237
		1.35	395
		1.51	403
		1.96	585
		2.80	935
	113	0.00	135
		0.60	493
		1.13	715
		1.39	893
		1.98	1180
		2.62	1580
		3.04	1730
	128	0.00	208
		0.60	643
		1.26	1270
		1.64	1490
		1.98	1400
		2.95	2070
	146	0.00	258
		0.61	927
		1.61	1570
		2.16	2190
		3.07	3480
	162	0.00	281
		0.62	1160
		1.61	1780
		2.01	2280
		3.13	3500



1: Cosolvent in CO_2.
Synonym: Octadecanoic acid
Source: Zhong, M.; Han, B.; Yan, H. *J. Supercrit. Fluids* (1997), 10(2), 113-118.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-27]**

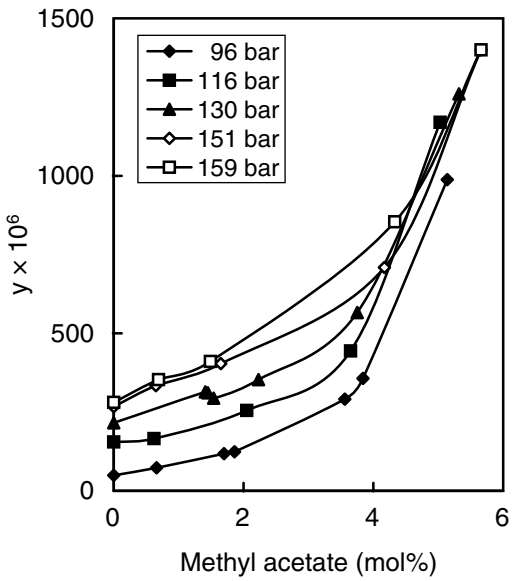
T (K)	P (bar)	Ethanol[1)] (mol %)	y x 10^6
318.15	98	0.00	58
		0.69	81
		1.42	180
		2.29	509
	111	0.00	117
		0.67	146
		1.56	359
		2.61	961
	126	0.00	195
		0.62	236
		1.57	513
		2.83	1316
	141	0.00	244
		0.70	336
		1.49	597
		2.70	1274
	163	0.00	275
		0.71	420
		1.80	951
		2.58	1480



1: Cosolvent in CO_2.
Synonym: Octadecanoic acid
Source: Zhong, M.; Han, B.; Yan, H.; Peng, D.-Y. *Fluid Phase Equil.* (1997), 134(1-2), 175-183.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-28]**

T (K)	P (bar)	Methyl acetate[1)] (mol %)	y x 10^6
318.15	96	0.00	49
		0.66	73
		1.70	118
		1.86	124
		3.56	291
		3.84	357
		5.14	988
	116	0.00	155
		0.62	166
		2.05	255
		3.65	444
		5.03	1170
	130	0.00	216
		1.41	314
		1.45	311
		1.54	294
		2.23	353
		3.75	566
		5.32	1260

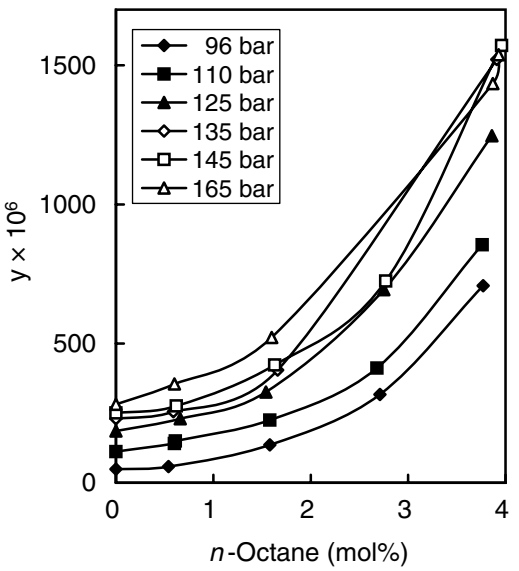


151	0.00	267
	0.65	334
	1.65	404
	4.17	709
	5.66	1400
159	0.00	281
	0.69	353
	1.49	411
	4.33	854
	5.66	1400

1: Cosolvent in CO_2.
Synonym: Octadecanoic acid
Source: Zhong, M.; Han, B.; Yan, H. *J. Supercrit. Fluids* (1997), 10(2), 113-118.

Stearic acid ($C_{18}H_{36}O_2$; MW=284.48) **[S-29]**

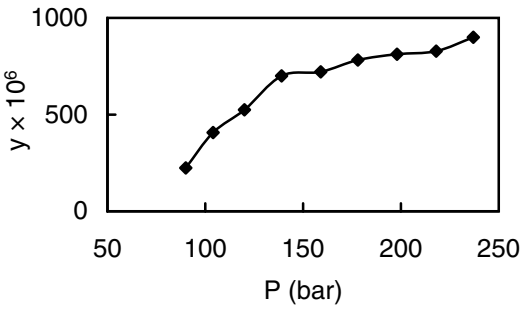
T (K)	P (bar)	*n*-Octane[1)] (mol %)	y × 10^6
318.15	96	0.00	49
		0.54	58
		1.58	136
		2.71	317
		3.77	708
	110	0.00	112
		0.60	141
		0.61	150
		1.58	225
		2.68	412
		3.76	855
	125	0.00	186
		0.66	230
		1.54	326
		2.75	694
		3.86	1247
	135	0.00	230
		0.59	255
		1.66	405
		3.91	1521
	145	0.00	251
		0.62	276
		1.63	423
		2.77	725
		3.96	1571
	165	0.00	282
		0.60	355
		1.60	522
		3.87	1434
		3.93	1538



1: Cosolvent in CO_2.
Synonym: Octadecanoic acid
Source: Zhong, M.; Han, B.; Yan, H.; Peng, D.-Y. *Fluid Phase Equil.* (1997), 134(1-2), 175-183.

Stearyl alcohol ($C_{18}H_{38}O$; MW=270.49) **[S-30]**

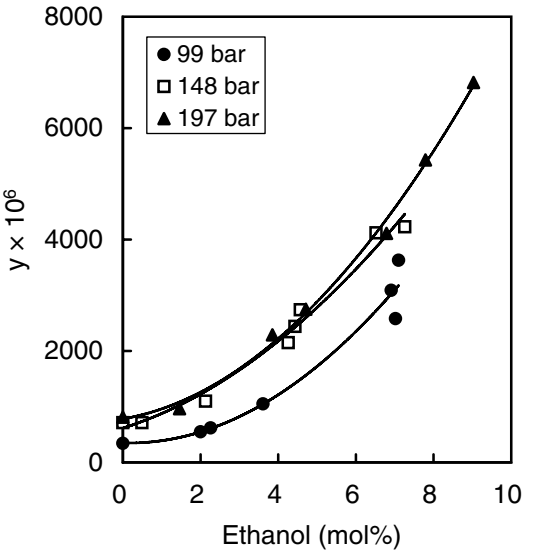
T (K)	P (bar)	y × 10^6
308.15	90	224
	104	407
	120	525
	139	700
	159	721
	178	782
	198	812
	218	828
	237	900



Synonyms: 1-Octadecanol; *n*-Octadecyl alcohol
Source: Iwai, Y.; Koga, Y.; Maruyama, H.; Arai, Y. *J. Chem. Eng. Data* (1993), 38(4), 506-508.

Stearyl alcohol ($C_{18}H_{38}O$; MW=270.49) **[S-31]**

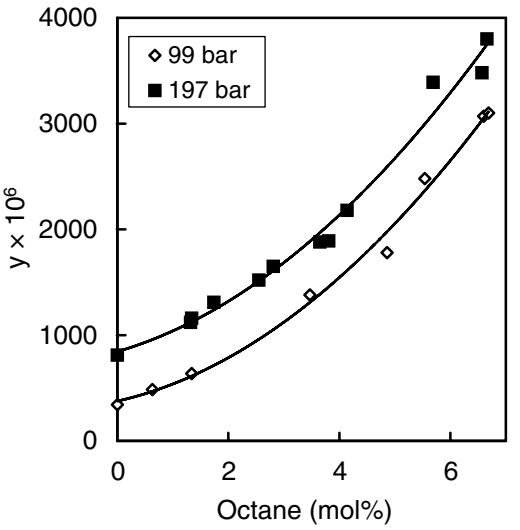
T (K)	P (bar)	Ethanol[1)] (mol%)	y × 10^6
308.2	99	0.00	342
		2.00	550
		2.26	620
		3.61	1050
		6.91	3090
		7.02	2580
		7.10	3630
	148	0.00	714
		0.49	714
		2.13	1100
		4.26	2150
		4.43	2440
		4.57	2740
		6.52	4120
		7.26	4230
	197	0.00	811
		1.46	965
		3.85	2290
		4.71	2750
		6.79	4110
		7.79	5430
		9.03	6820



1: Cosolvent in CO_2.
Synonyms: 1-Octadecanol; *n*-Octadecyl alcohol
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Stearyl alcohol ($C_{18}H_{38}O$; MW=270.49) **[S-32]**

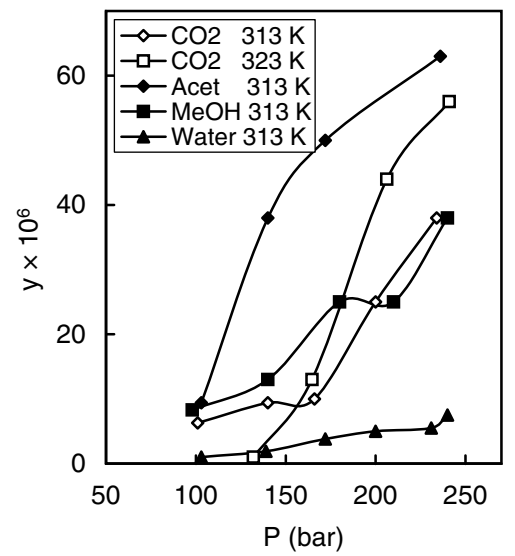
T (K)	P (bar)	Octane[1)] (mol%)	y × 10^6
308.2	99	0.00	342
		0.63	485
		1.34	637
		3.47	1380
		4.86	1780
		5.54	2480
		6.60	3070
		6.69	3100
	197	0.00	811
		1.32	1120
		1.34	1160
		1.74	1310
		2.55	1520
		2.81	1650
		3.65	1880
		3.81	1890
		4.14	2180
		5.69	3390
		6.57	3480
		6.66	3800



1: Cosolvent in CO_2.
Synonyms: 1-Octadecanol; *n*-Octadecyl alcohol
Source: Koga, Y.; Iwai, Y.; Hata, Y.; Yamamoto, M.; Arai, Y. *Fluid Phase Equil.* (1996), 125, 115-128.

Stigmasterol ($C_{29}H_{48}O$; MW=412.69) **[S-33]**

T (K)	P (bar)	Cosolvent (wt%)	y[1)] × 10^6
313.15	101	0.0	6.3
	140	0.0	9.4
	166	0.0	10.0
	200	0.0	25.0
	234	0.0	38.0
323.15	132	0.0	1.0
	165	0.0	13.0
	206	0.0	44.0
	241	0.0	56.0
		Acetone	
313.15	103	3.0	9.4
	140	3.0	38.0
	172	3.0	50.0
	236	3.0	63.0
		Methanol	
313.15	98	3.0	8.3
	140	3.0	13.0



	180	3.0	25.0
	210	3.0	25.0
	240	3.0	38.0
		Water	
313.15	103	3.0	1.0
	139	3.0	1.9
	172	3.0	3.8
	200	3.0	5.0
	231	3.0	5.5
	240	3.0	7.5

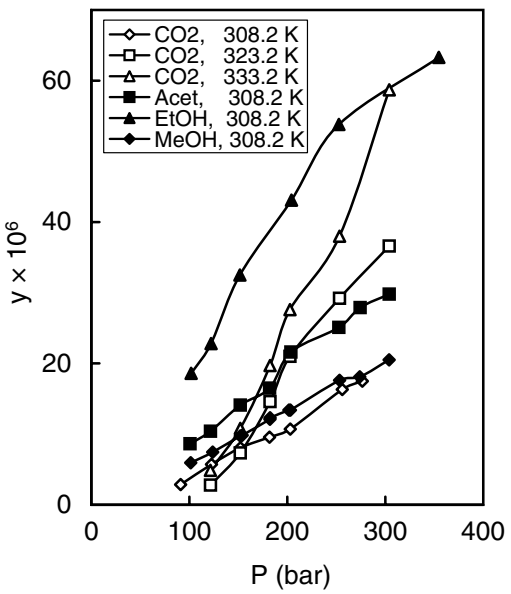
1: Obtained by digitizing the graph in the original article. Some data may not be accurate as the source graph is in a semi-log scale with a small span.

Synonym: (3β,22E)-Stigmasta-5,22-dien-3-ol

Source: Noh, M. J.; Kim, T. G.; Hong, I. K.; Yoo,K.-P. *Korean J. Chem. Eng.* (1995), 12(1), 48-55.

Stigmasterol ($C_{29}H_{48}O$; MW=412.69) **[S-34]**

T (K)	P (bar)	Cosolvent (mol%)	y × 10^6
308.15	91.1	0.0	2.85
	122.6	0.0	5.71
	152.1	0.0	8.06
	181.9	0.0	9.57
	203.0	0.0	10.70
	256.1	0.0	16.30
	276.6	0.0	17.50
323.15	121.6	0.0	2.78
	152.0	0.0	7.33
	182.4	0.0	14.60
	202.7	0.0	21.00
	253.3	0.0	29.20
	304.0	0.0	36.60
333.15	121.5	0.0	4.87
	152.0	0.0	10.80
	182.4	0.0	19.70
	202.7	0.0	27.60
	253.3	0.0	38.00
	304.0	0.0	58.70
308.15		*Acetone*	
	100.7	*3.5*	8.64
	121.6	*3.5*	10.40
	152.0	*3.5*	14.10
	182.0	*3.5*	16.50
	203.7	*3.5*	21.60
	252.7	*3.5*	25.10
	274.3	*3.5*	27.90
	304.0	*3.5*	29.80

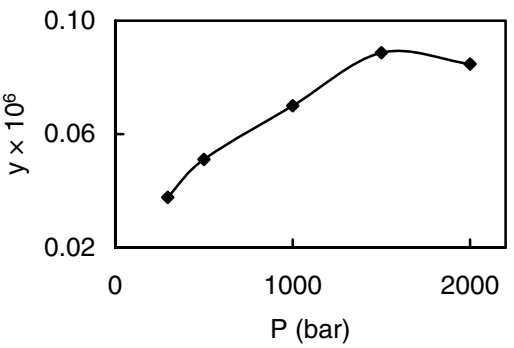


	Ethanol	
101.9	*3.5*	18.60
122.2	*3.5*	22.80
151.6	*3.5*	32.50
204.2	*3.5*	43.10
252.6	*3.5*	53.80
354.7	*3.5*	63.30
	Methanol	
101.4	*3.5*	5.95
123.9	*3.5*	7.45
152.0	*3.5*	9.73
153.9	*3.5*	9.84
182.2	*3.5*	12.10
182.4	*3.5*	12.30
201.7	*3.5*	13.40
203.1	*3.5*	13.40
253.3	*3.5*	17.60
273.9	*3.5*	18.10
303.9	*3.5*	20.50

Synonym*:* (3β, 22E)-Stigmasta-5,22-dien-3-ol
Source: Wong, J. M.; Johnston, K. P. *Biotech. Prog.* (1986), 2(1), 29-39.

Sucrose($C_{12}H_{22}O_{11}$; MW=342.30) **[S-35]**

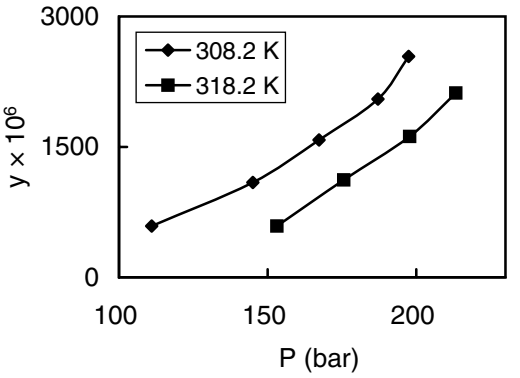
T (K)	P[1] (bar)	S[1] (μg/Nl[2])	y[3] × 10^6
313.15	296	0.579	0.0377
	500	0.785	0.0511
	1000	1.076	0.0700
	1500	1.364	0.0887
	2000	1.303	0.0847



1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonyms: Saccharose; (+)-Sucrose
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

Surfactant Ls-36[1] ($C_{36}H_{74}O_{10}$; MW=666.98) **[S-36]**

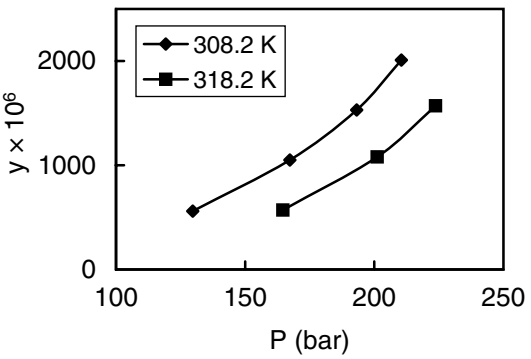
T (K)	P (bar)	M (mol/L)	y[2] × 10^6
308.2	111.0	0.01	590
	145.0	0.02	1090
	167.3	0.03	1580
	187.1	0.04	2050
	197.4	0.05	2540
318.2	153.1	0.01	590
	175.6	0.02	1120
	197.8	0.03	1620
	213.3	0.04	2120



1: A block copolymer of Henkel Corporation of Germany [(dodecyl oxide)-(ethylene oxide)$_3$-(propylene oxide)$_6$].
2: Calculated from M.
Source: Liu, J.; Han, B.; Wang, Z.; Zhang, J.; Li, G.; Yang, G. *Langmuir* (2002), 18(8), 3086-3089.

Surfactant Ls-45[1] ($C_{35}H_{72}O_{10}$; MW=652.95) **[S-37]**

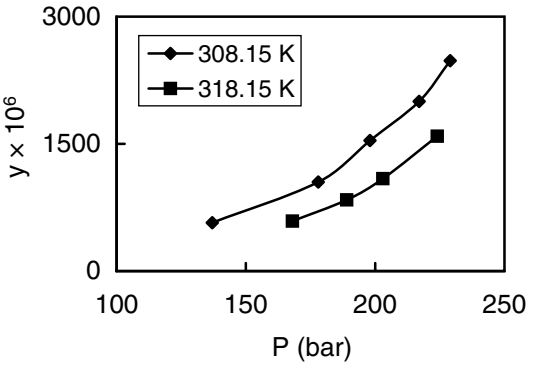
T (K)	P (bar)	M (mol/L)	y[1] × 10^6
308.2	129.7	0.01	560
	167.3	0.02	1050
	193.2	0.03	1530
	210.5	0.04	2010
318.2	164.6	0.01	570
	201.1	0.02	1080
	223.7	0.03	1570



1: A block copolymer of Henkel Corporation of Germany [(dodecyl oxide)-(ethylene oxide)$_4$-(propylene oxide)$_5$].
2: Calculated from M.
Source: Liu, J.; Han, B.; Wang, Z.; Zhang, J.; Li, G.; Yang, G. *Langmuir* (2002), 18(8), 3086-3089.

Surfactant Ls-54[1] ($C_{34}H_{74}O_{10}$; MW=638.92) **[S-38]**

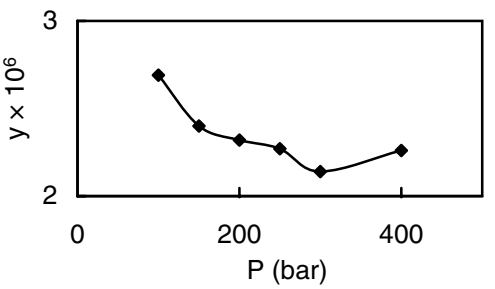
T (K)	P[2] (bar)	M[2] (mol/L)	y[3] × 10^6
308.15	137	0.01	570
	178	0.02	1050
	198	0.03	1540
	217	0.04	2000
	229	0.05	2480
318.15	168	0.01	590
	189	0.015	840
	203	0.02	1090
	224	0.03	1590



1: A block copolymer of Henkel Corporation of Germany [(dodecyl oxide)-(ethylene oxide)$_5$-(propylene oxide)$_4$].
2: Obtained by digitizing the graph in the original article.
3: Calculated from M.
Source: Liu, J.; Han B.; Zhang, J.; Li, G.; Zhang, X.; Wang, J.; Dong, B. *Chem. Eur. J.* (2002), 8(6), 1356-1360.

Sulfadimethoxine($C_{12}H_{14}N_4O_4S$; MW=310.33) **[S-39]**

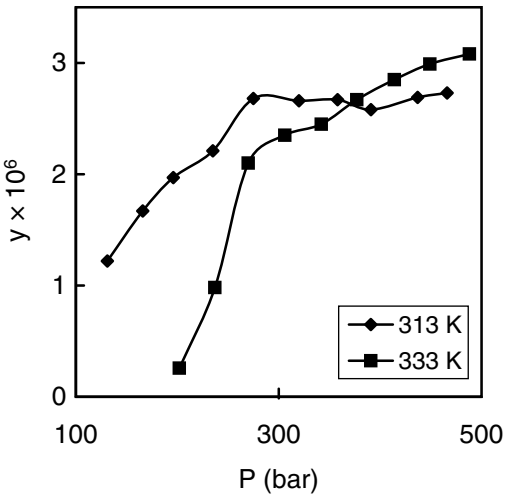
T (K)	P (bar)	y × 10^6
313.15	100	2.69
	150	2.40
	200	2.32
	250	2.27
	300	2.14
	400	2.26



Synonyms: 2,4-Dimethoxy-6-sulfonylamido-1,3-diazine; 2,6-Dimethoxy-4-sulfanilamidopyrimidine
Source: Ashraf-Khorassani, M.; Combs, M.T.; Taylor, L.T.; Schweighardt, F.K.; Mathias, P. S. *J. Chem. Eng. Data* (1997), 42(3), 636-640.

Sulfadimethoxine ($C_{12}H_{14}N_4O_4S$; MW=310.33) **[S-40]**

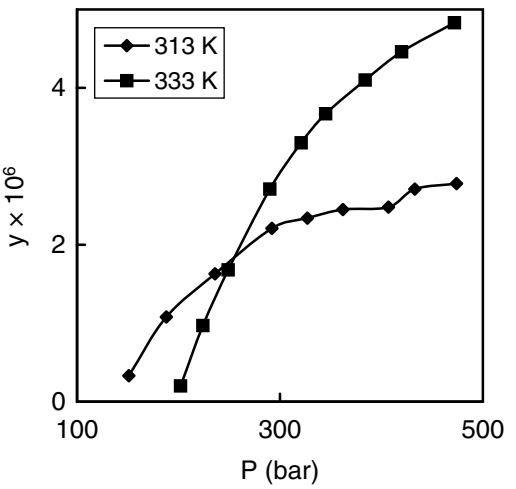
T (K)	P (bar)	S × 10^5 (mol/L)	y × 10^6
313.15	131	2.06	1.22
	166	3.06	1.67
	196	3.74	1.97
	235	4.36	2.21
	275	5.45	2.68
	320	5.58	2.66
	358	5.69	2.67
	391	5.59	2.58
	437	5.94	2.69
	466	6.09	2.73
333.15	202	0.43	0.26
	237	1.70	0.98
	270	3.85	2.10
	306	4.47	2.35
	342	4.78	2.45
	377	5.33	2.67
	414	5.81	2.85
	449	6.21	2.99
	488	6.50	3.08



Synonyms: 2,4-Dimethoxy-6-sulfonylamido-1,3-diazine; 2,6-Dimethoxy-4-sulfanilamidopyrimidine
Source: Hampson, J. W.; Maxwell, R. J.; Li, S.; Shadwell, R. J. *J. Chem. Eng. Data* (1999), 44(6),1222-1225.

Sulfamerazine ($C_{11}H_{12}N_4O_2S$; MW=264.30) **[S-41]**

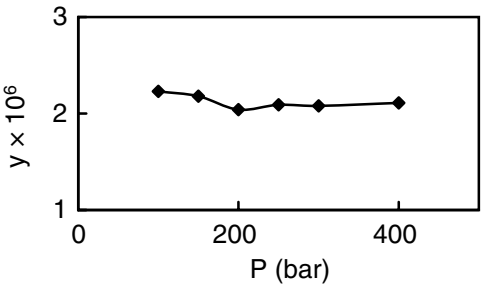
T (K)	P (bar)	S × 10^5 (mol/L)	y × 10^6
313.15	151	0.58	0.33
	188	2.03	1.08
	236	3.23	1.63
	292	4.55	2.21
	327	4.92	2.34
	362	5.25	2.45
	407	5.41	2.48
	433	6.02	2.71
	474	6.22	2.78
333.15	202	0.33	0.20
	224	1.67	0.97
	249	3.00	1.68
	290	5.06	2.71
	321	6.33	3.30
	345	7.17	3.67
	384	8.22	4.10
	420	7.12	4.46
	472	10.14	4.83



Synonym: *N*-(4-Methyl-2-pyrimidyl)sulfanilamide
Source: Hampson, J. W.; Maxwell, R. J.; Li, S.; Shadwell, R. J. *J. Chem. Eng. Data* (1999), 44(6), 1222-1225.

Sulfamethazine ($C_{12}H_{14}N_4O_2S$; MW=278.33) **[S-42]**

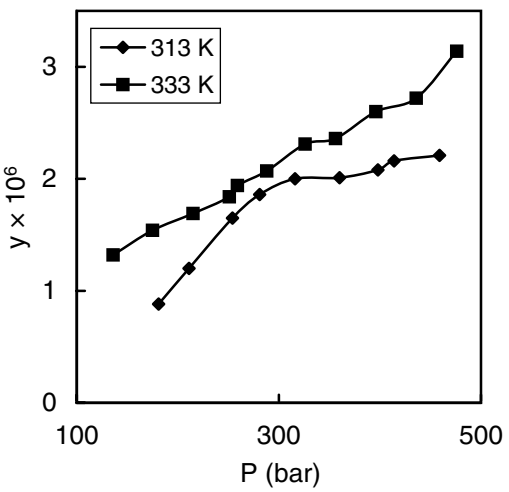
T (K)	P (bar)	y × 10^6
313.15	100	2.23
	150	2.18
	200	2.04
	250	2.09
	300	2.08
	400	2.11



Synonym: *N*1-(4,6-Dimethyl-2-pyrimidinyl)sulfanilamide
Source: Ashraf-Khorassani, M.; Combs, M. T.; Taylor, L. T.; Schweighardt, F. K.; Mathias, P. S. *J. Chem. Eng. Data* (1997), 42(3), 636-640.

Sulfamethazine ($C_{12}H_{14}N_4O_2S$; MW=278.33) **[S-43]**

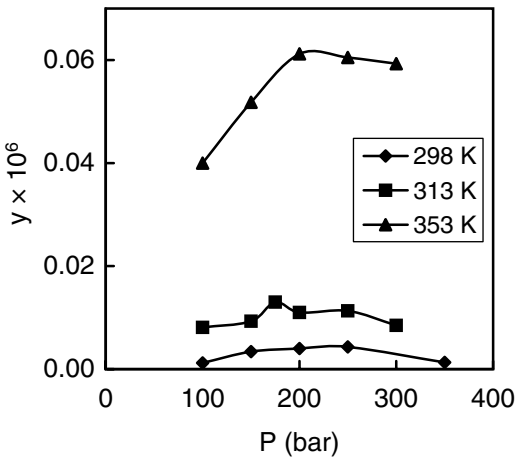
T (K)	P (bar)	S × 10^5 (mol/L)	y × 10^6
313.15	181	1.65	0.88
	211	2.32	1.20
	254	3.30	1.65
	281	3.81	1.86
	316	4.18	2.00
	360	4.30	2.01
	398	4.51	2.08
	414	4.72	2.16
	459	4.91	2.21
333.15	136	1.62	1.32
	175	2.37	1.54
	215	2.86	1.69
	251	3.29	1.84
	259	3.52	1.94
	288	3.86	2.07
	326	4.46	2.31
	356	4.65	2.36
	396	5.25	2.60
	436	5.62	2.72
	476	6.59	3.14



Synonym: *N*1-(4,6-Dimethyl-2-pyrimidinyl)sulfanilamide
Source: Hampson, J. W.; Maxwell, R. J.; Li, S.; Shadwell, R. J. *J. Chem. Eng. Data* (1999), 44(6), 1222-1225.

Sulfathiazole ($C_9H_9N_3O_2S_2$; MW=255.32) **[S-44]**

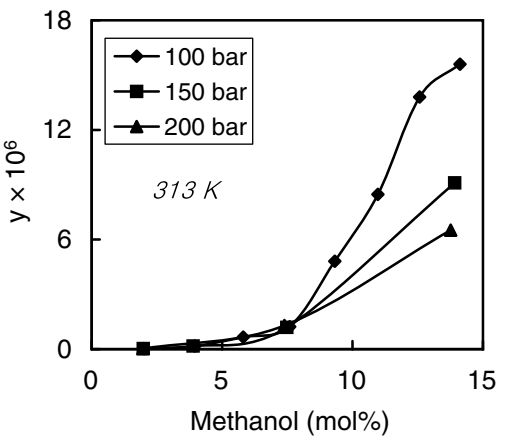
T (K)	P (bar)	y × 10^6
298	100	0.0012
	150	0.0034
	200	0.0040
	250	0.0043
	350	0.0013
313	100	0.0081
	150	0.0093
	175	0.0130
	200	0.0110
	250	0.0113
	300	0.0085
353	100	0.0400
	150	0.0518
	200	0.0612
	250	0.0605
	300	0.0593



Synomyms: 2-(Sulfanilylamino)thiazole;*N*1-(2-Thiazolyl)sulfanilamide
Source: Kordikowski, A.; Siddiqi, M.; Palakodaty, S. *Fluid Phase Equil.* (2002), 194-197, 905-917.

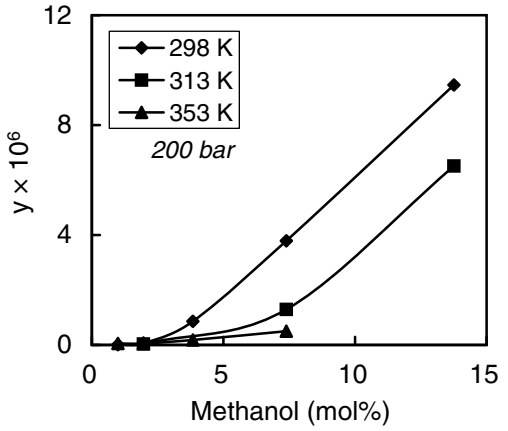
Sulfathiazole ($C_9H_9N_3O_2S_2$; MW=255.32) **[S-45]**

T (K)	P (bar)	Methanol[1)] (mol%)	y × 10^6
298	200	0.99	0.011
		1.96	0.071
		3.84	0.860
		7.39	3.790
		13.76	9.460
313	100	2.01	0.026
		3.95	0.170
		5.81	0.660
		7.59	1.230
		9.32	4.810
		10.97	8.470
		12.57	13.800
		14.12	15.600
	150	1.98	0.029
		3.89	0.170
		7.48	1.190
		13.92	9.100
	200	1.96	0.033
		7.39	1.290
		13.76	6.510



353	100	0.99	0.033
		1.47	0.035
		1.96	0.036
		2.43	0.051
	200	0.99	0.054
		1.96	0.056
		3.84	0.180
		7.39	0.500

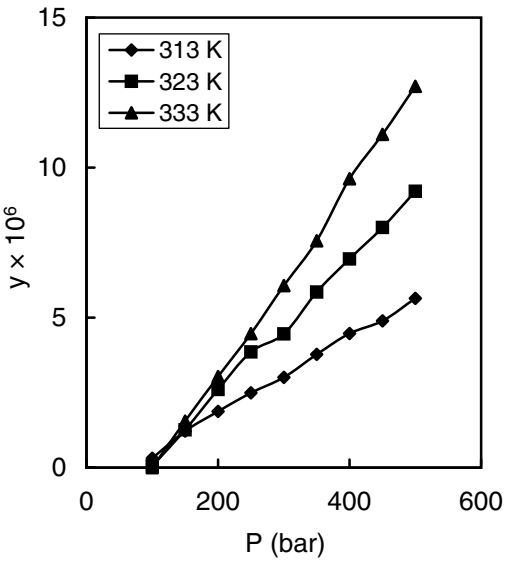
1: Cosolvent in CO_2.
Synomyms: 2-(Sulfanilylamino)thiazole; *N*1-(2-Thiazolyl)sulfanilamide
Source: Kordikowski, A.; Siddiqi, M.; Palakodaty, S. *Fluid Phase Equil.* (2002), 194-197, 905-917.



Syringic acid ($C_9H_{10}O_5$; MW=198.17) **[S-46]**

T (K)	P (bar)	y × 10^6
313	100	0.315
	150	1.221
	200	1.874
	250	2.494
	300	3.009
	350	3.776
	400	4.470
	450	4.892
	500	5.641
323	100	0.058
	150	1.260
	200	2.606
	250	3.857
	300	4.459
	350	5.852
	400	6.953
	450	8.006
	500	9.210
333	100	0.001
	150	1.550
	200	3.034
	250	4.468
	300	6.067
	350	7.559
	400	9.629
	450	11.106
	500	12.709

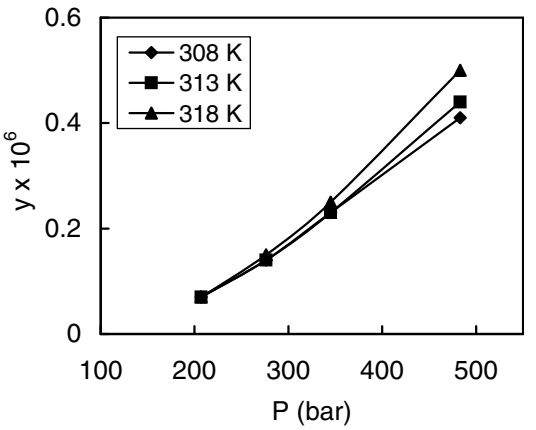
Synonym: Gallic acid 3,5-dimethyl ether; 4-Hydroxy-3,5-dimethoxybenzoic acid
Source: Murga, R.; Sanz, M.- T.; Beltran, S.; Cabezas, J.- L. *J. Chem. Eng. Data* (2004), 49(4), 779-782.



20 Solubility Data T

Taxol ($C_{47}H_{51}NO_{14}$; MW=853.91) **[T-1]**

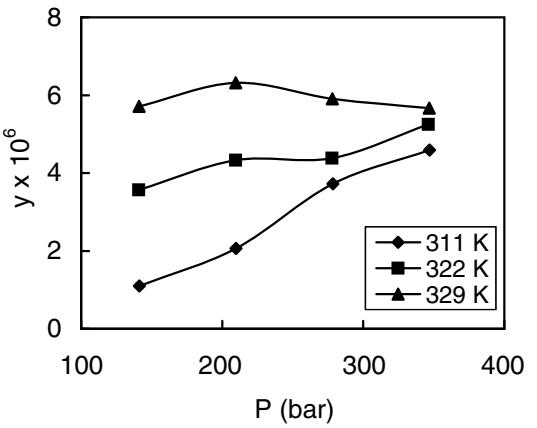
T (K)	P (bar)	y x 10^6
308.15	207	0.07
	276	0.14
	345	0.23
	483	0.41
313.15	207	0.07
	276	0.14
	345	0.23
	483	0.44
318.15	207	0.07
	276	0.15
	345	0.25
	483	0.50



Synonym: Paclitaxel
Source: Nalesnik, C. A.; Hansen, B. N.; Hsu, J. T. *Fluid Phase Equil.* (1998), 146(1,2), 315-323.

Taxol ($C_{47}H_{51}NO_{14}$; MW=853.91) **[T-2]**

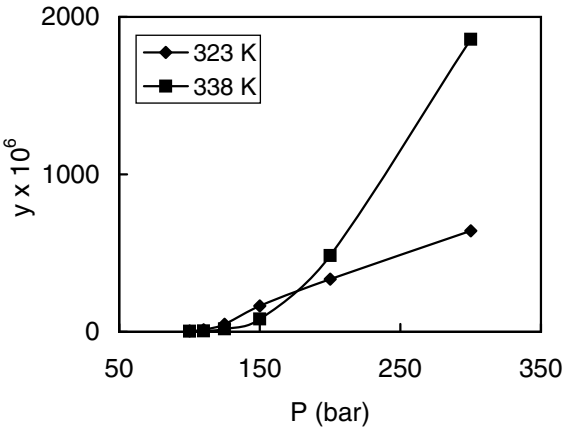
T (K)	P (bar)	y x 10^6
312.2	141.2	1.10
311.4	209.8	2.06
310.2	278.5	3.72
310.6	346.9	4.59
322.5	140.9	3.57
322.4	209.5	4.33
322.0	277.9	4.38
322.0	346.2	5.25
328.8	141.0	5.71
328.9	209.5	6.32
328.9	278.0	5.91
329.0	346.7	5.67

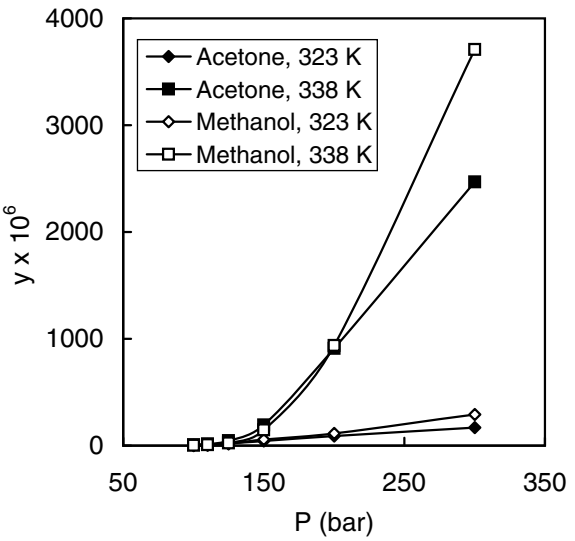


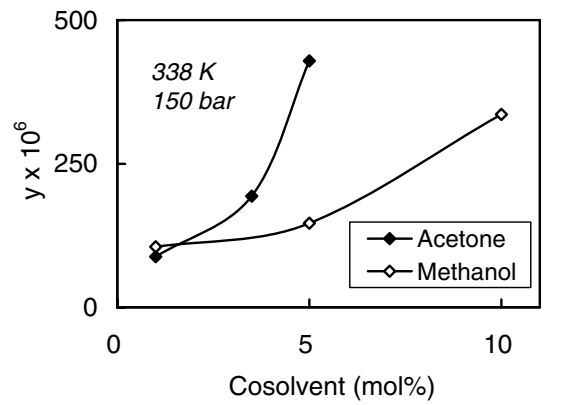
Synonym: Paclitaxel
Source: Vandana, V.; Teja, A. S. *Fluid Phase Equil.* (1997), 135(1), 83-87.

Tebuconazole ($C_{16}H_{22}ClN_3O$; MW=307.82) **[T-3]**

T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
323.15	100	0.0	6.3
	110	0.0	13.4
	125	0.0	47.8
	150	0.0	165.0
	200	0.0	334.3
	300	0.0	642.1
338.15	100	0.0	3.5
	110	0.0	5.7
	125	0.0	18.0
	150	0.0	80.8
	200	0.0	483.8
	300	0.0	1857.1
		Acetone	
323.15	100	3.0	1.9
	110	3.0	9.6
	125	3.0	17.9
	150	3.0	44.8
	200	3.0	88.6
	300	3.0	169.1
338.15	100	3.0	8.6
	110	3.0	16.8
	125	3.0	45.5
	150	3.0	193.3
	200	3.0	910.7
	300	3.0	2468.9
	150	1.0	88.0
	150	3.5	193.3
	150	5.0	429.1
		Methanol	
323.15	100	3.0	0.7
	110	3.0	3.2
	125	3.0	15.8
	150	3.0	57.2
	200	3.0	115.3
	300	3.0	292.8
338.15	100	3.0	3.5
	110	3.0	7.3
	125	3.0	24.4
	150	3.0	147.1
	200	3.0	938.4
	300	3.0	3707.1





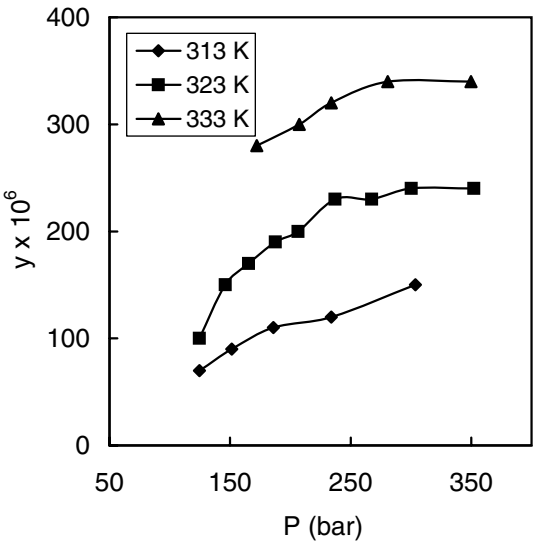


150	1.0	105.6
150	5.0	146.6
150	10.0	336.0

1: Cosolvent in CO_2.
Synonym: 1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol
Source: Sahle-Demessie, E.; Pillai, U. R.; Junsophonsri, S.; Levien, K. L. *J. Chem. Eng. Data* (2003), 48(3), 541-547.

Terbium tris(2,2,6,6-tetramethyl-3,5-heptanedionate) ($C_{33}H_{57}O_6Tb$; FW=708.74) **[T-4]**

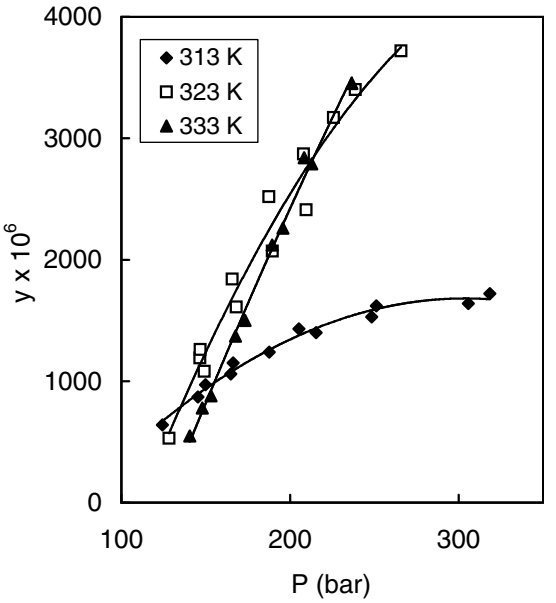
T (K)	P (bar)	S (g/L)	y x 10^6
313	124.6	0.88	70
	151.4	1.17	90
	185.8	1.46	110
	233.9	1.70	120
	303.8	2.15	150
323	124.6	1.02	100
	146.0	1.63	150
	165.3	2.01	170
	187.6	2.34	190
	206.4	2.58	200
	237.1	2.99	230
	267.4	3.18	230
	300.4	3.34	240
	352.3	3.48	240
333	172.1	3.07	280
	207.3	3.52	300
	234.0	4.02	320
	280.8	4.50	340
	349.7	4.73	340



Synonyms: $Tb(thd)_3$; Tris(2,2,6,6-tetramethyl 3, 5-heptanedionato)terbium
Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

Terbium tris(2,2,7-trimethyl-3,5-octanedionate) ($C_{33}H_{57}O_6Tb$; FW=708.74) **[T-5]**

T (K)	P (bar)	S (g/L)	y x 10^6
313	124.3	7.60	640
	145.4	10.90	870
	149.8	12.20	970
	164.9	13.67	1060
	166.2	14.85	1150
	187.7	16.52	1240
	205.2	19.53	1430
	215.4	19.35	1400
	248.3	21.74	1530
	251.2	23.07	1620
	305.6	24.14	1640
	318.4	25.48	1720
323	128.3	5.41	530
	146.5	13.34	1190
	146.8	14.06	1260
	149.2	12.15	1080
	165.7	21.80	1840
	168.2	19.18	1610
	187.4	31.27	2520
	189.6	25.77	2070
	208.0	36.83	2870
	209.5	30.99	2410
	225.7	41.68	3170
	238.8	45.39	3400
	265.8	50.91	3720
333	140.6	5.01	550
	148.0	7.51	780
	153.1	8.74	880
	167.6	14.61	1370
	173.4	16.30	1500
	189.4	24.20	2120
	195.8	26.26	2260
	208.4	33.84	2840
	212.9	33.50	2790
	236.7	43.11	3450



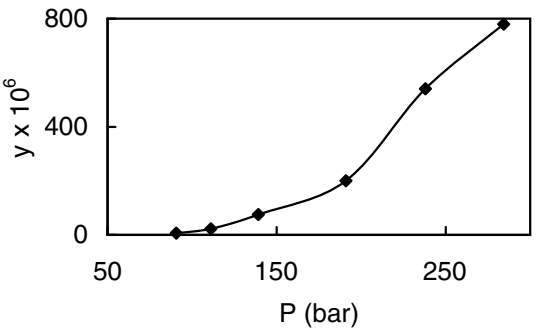
Synonyms: $Tb(tod)_3$, Tris(2,2,7-trimethyl-3,5-octanedionato)terbium

Source: Andersen, W. C.; Sievers, R. E.; Lagalante, A. F.; Bruno, T. J. *J. Chem. Eng. Data* (2001), 46(5), 1045-1049.

***m*-Terphenyl** ($C_{18}H_{14}$; MW=230.30) **[T-6]**

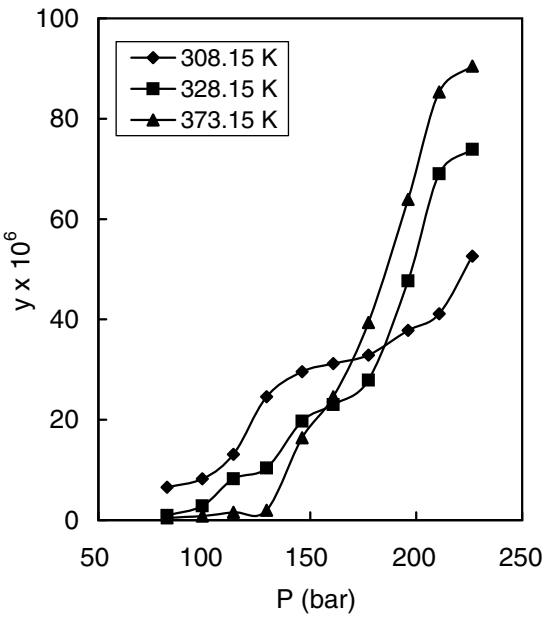
T (K)	P[1] (bar)	y[2] x 10^6
308.2	91	7
	111	22
	139	76
	191	200
	238	540
	284	780

1: Calculated from temperature and density in the source graph.
2: Obtained by digitizing the graph in the original article. May have large reading error as the original graph is small.
Synonym: 1,3-Diphenylbenzene
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.



Testosterone ($C_{19}H_{28}O_2$; MW=288.42) **[T-7]**

T (K)	P (bar)	y x 10^6
308.15	82.4	6.57
	99.0	8.22
	113.8	13.10
	129.4	24.60
	146.1	29.60
	160.8	31.20
	177.5	32.90
	196.1	37.80
	210.8	41.10
	226.5	52.60
328.15	82.4	0.95
	99.0	2.86
	113.8	8.25
	129.4	10.40
	146.1	19.70
	160.8	23.00
	177.5	27.90
	196.1	47.70
	210.8	69.00
	226.5	73.90
373.15	82.4	0.46
	99.0	0.82
	113.8	1.56
	129.4	1.97
	146.1	16.40
	160.8	24.60

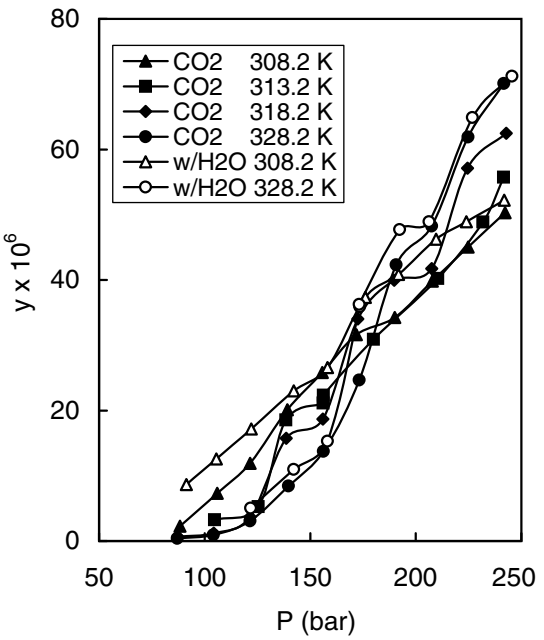


177.5	39.40
196.1	63.90
210.8	85.30
226.5	90.50

Synonym: 17β-Hydroxyandrost-4-en-3-one
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Testosterone ($C_{19}H_{28}O_2$; MW=288.42) **[T-8]**

T (K)	P (bar)	H_2O[1)] (vol %)	y x 10^6
308.2	88.4	0.0	2.28
	106.0	0.0	7.31
	121.6	0.0	11.90
	139.1	0.0	20.09
	155.7	0.0	25.84
	171.8	0.0	31.60
	190.1	0.0	34.26
	207.8	0.0	39.83
	224.8	0.0	45.03
	242.3	0.0	50.28
313.2	104.8	0.0	3.27
	125.3	0.0	5.27
	138.5	0.0	18.53
	156.1	0.0	21.12
	156.2	0.0	22.35
	180.0	0.0	30.92
	210.5	0.0	40.22
	231.8	0.0	48.86
	241.7	0.0	55.75
318.2	87.2	0.0	0.69
	104.3	0.0	1.22
	121.5	0.0	3.71
	138.6	0.0	15.76
	155.9	0.0	18.70
	172.6	0.0	34.04
	189.8	0.0	39.97
	207.5	0.0	41.74
	224.5	0.0	57.12
	242.9	0.0	62.47
328.2	87.0	0.0	0.39
	104.2	0.0	0.95
	121.5	0.0	3.08
	139.7	0.0	8.44

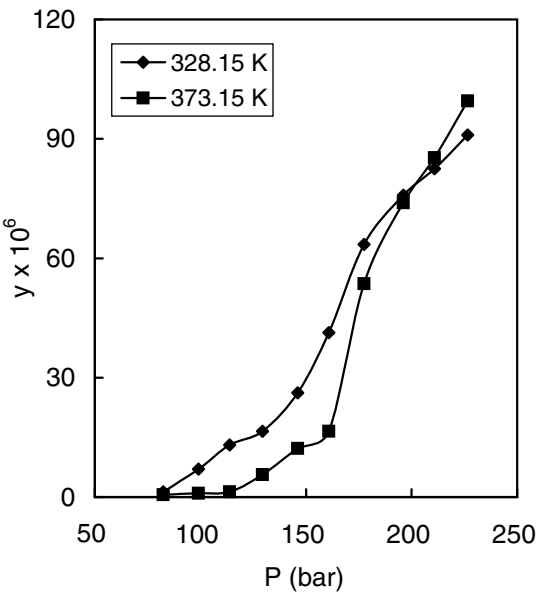


	156.2	0.0	13.72
	173.2	0.0	24.67
	190.8	0.0	42.33
	207.5	0.0	48.26
	224.8	0.0	61.88
	241.8	0.0	70.10
308.2	91.3	10.0	8.66
	105.5	10.0	12.58
	122.1	10.0	17.16
	142.3	10.0	22.99
	158.3	10.0	26.57
	176.1	10.0	37.32
	191.8	10.0	40.83
	209.6	10.0	46.23
	223.9	10.0	48.91
	241.9	10.0	52.23
328.2	121.8	10.0	5.05
	142.2	10.0	10.95
	158.3	10.0	15.31
	173.5	10.0	35.91
	173.2	10.0	36.26
	192.4	10.0	47.71
	206.3	10.0	48.93
	226.9	10.0	64.88
	245.6	10.0	71.20

1. Cosolvent in CO_2.
Synonym: 17β-Hydroxyandrost-4-en-3-one
Source: Kosal, E.; Lee, C. H.; Holder, G. D. *J. Supercrit. Fluids* (1992), 5(3), 169-179.

Testosterone-17-propionate ($C_{22}H_{32}O_3$; MW=344.49) **[T-9]**

T (K)	P (bar)	y x 10^6
328.15	82.4	1.31
	99.0	7.01
	113.8	13.10
	129.4	16.50
	146.1	26.20
	160.8	41.30
	177.5	63.50
	196.1	75.80
	210.8	82.50
	226.5	91.00
373.15	82.4	0.56
	99.0	0.98
	113.8	1.31
	129.4	5.64
	146.1	12.20

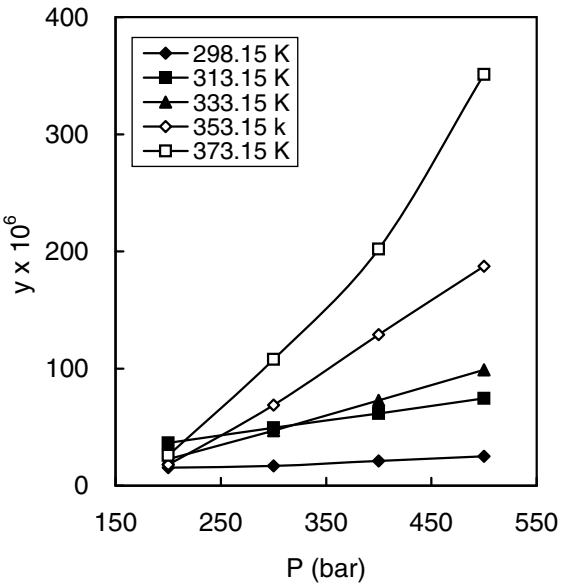


160.8	16.50
177.5	53.60
196.1	73.90
210.8	85.30
226.5	99.50

Synonym: 17β-(1-Oxopropoxy)-androst-4-en-3-one
Source: Dean, J. R.; Kane, M.; Khundker, S.; Dowle, C.; Tranter, R. L.; Jones, P. *Analyst* (1995), 120(8), 2153-2157.

Tetrabromobisphenol-A ($C_{15}H_{12}Br_4O_2$; 543.87) **[T-10]**

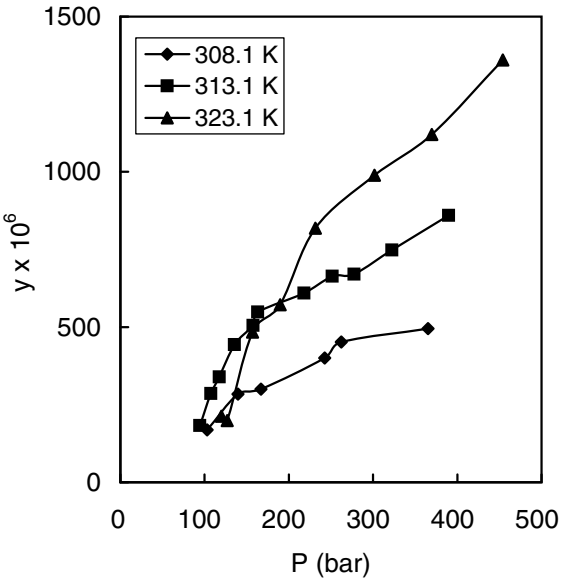
T (K)	P (bar)	w x 10^6	y[1)] x 10^6
298.15	200	190	15.4
	300	210	17.0
	400	260	21.0
	500	310	25.1
313.15	200	450	36.4
	300	610	49.4
	400	760	61.5
	500	920	74.5
333.15	200	280	22.7
	300	580	47.0
	400	900	72.9
	500	1220	98.8
353.15	200	220	17.8
	300	850	68.8
	400	1590	128.9
	500	2310	187.3
373.15	200	320	25.9
	300	1330	107.8
	400	2490	202.0
	500	4320	351.0



1: Calculated from w.
Synonyms: 4,4'-Isopropylidenebis[2,6-dibromophenol]; 2,2',6,6'-Tetrabromobisphenol A
Source: Gamse, T.; Steinkellner, F. ; Marr, R.; Alessi, P.; Kikic, I. *Ind. Eng. Chem. Res.* (2000), 39(12), 4888-4890.

2,3',4',5-Tetrachlorobiphenyl ($C_{12}H_6Cl_4$; MW=291.99) **[T-11]**

T (K)	P (bar)	y x 10^6
308.1	102.9	169
	139.7	284
	166.9	300
	242.7	400
	262.4	452
	365.2	495
313.1	94.3	183
	107.3	286
	117.4	339
	135.5	443
	157.5	505
	162.9	548
	218.1	609
	251.6	664
	277.5	670
	322.4	748
	389.8	860
323.1	120.0	213
	126.7	199
	157.0	484
	189.6	572
	231.5	818
	301.5	989
	369.7	1120
	454.1	1360

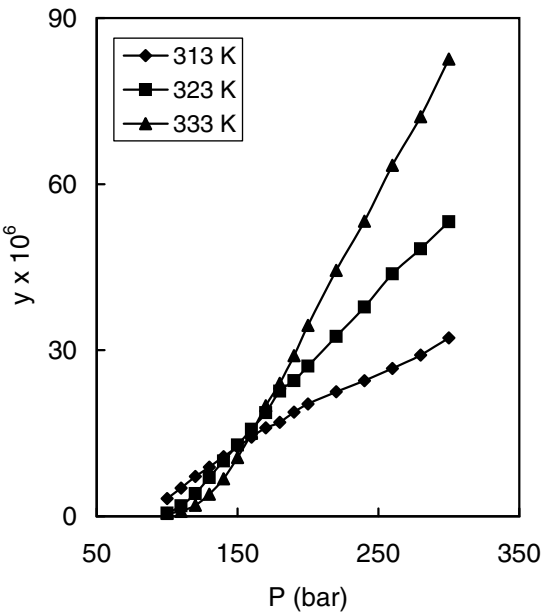


Synonym: PCB 70
Source: Yu, E.; Richter, M.; Chen, P.; Wang, X.; Tavlarides, L. L. *Ind. Eng. Chem. Res.* (1995), 34(1), 340-346.

3,3',4,4'-Tetrachlorobiphenyl ($C_{12}H_6Cl_4$; MW=291.99) **[T-12]**

T (K)	P (bar)	y x 10^6
313	100	3.2
	110	5.1
	120	7.2
	130	8.9
	140	10.8
	150	12.5
	160	14.3
	170	16.0
	180	17.0
	190	18.8

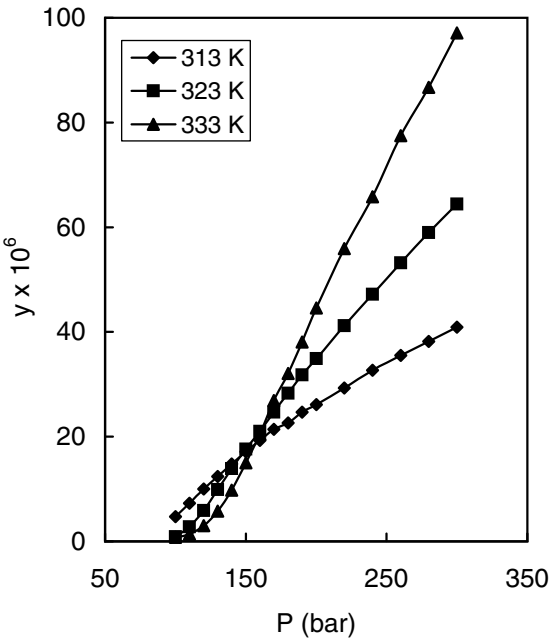
	200	20.3
	220	22.5
	240	24.5
	260	26.7
	280	29.1
	300	32.2
323	100	0.6
	110	1.9
	120	4.1
	130	7.0
	140	10.0
	150	12.9
	160	15.7
	170	18.7
	180	22.6
	190	24.5
	200	27.1
	220	32.5
	240	37.8
	260	43.8
	280	48.3
	300	53.2
333	100	0.5
	110	0.9
	120	2.0
	130	4.0
	140	6.8
	150	10.6
	160	15.0
	170	20.0
	180	24.0
	190	29.0
	200	34.5
	220	44.4
	240	53.3
	260	63.4
	280	72.2
	300	82.6



Synonym: PCB 77
Source: Anitescu, G.; Tavlarides, L. L.
J. Supercrit. Fluids (1999), 14(3), 197-211.

3,3',4,4'-Tetrachlorobiphenyl ($C_{12}H_6Cl_4$; MW=291.99) **[T-13]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	4.7
	110	5.0	7.3
	120	5.0	10.0
	130	5.0	12.4
	140	5.0	14.8
	150	5.0	17.1
	160	5.0	19.3
	170	5.0	21.4
	180	5.0	22.6
	190	5.0	24.7
	200	5.0	26.1
	220	5.0	29.3
	240	5.0	32.7
	260	5.0	35.5
	280	5.0	38.2
	300	5.0	40.9
323	100	5.0	0.9
	110	5.0	2.8
	120	5.0	5.9
	130	5.0	9.9
	140	5.0	13.9
	150	5.0	17.6
	160	5.0	21.0
	170	5.0	24.7
	180	5.0	28.3
	190	5.0	31.8
	200	5.0	34.9
	220	5.0	41.2
	240	5.0	47.2
	260	5.0	53.2
	280	5.0	59.0
	300	5.0	64.4
333	100	5.0	0.8
	110	5.0	1.4
	120	5.0	3.0
	130	5.0	5.8
	140	5.0	9.8
	150	5.0	15.0
	160	5.0	20.5
	170	5.0	26.9
	180	5.0	32.1
	190	5.0	38.1
	200	5.0	44.6

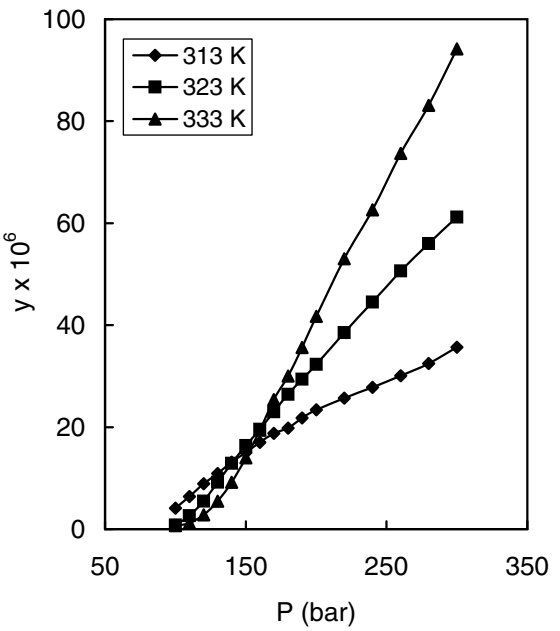


	220	5.0	55.9
	240	5.0	65.8
	260	5.0	77.5
	280	5.0	86.7
	300	5.0	97.1

1: Cosolvent in CO_2.
Synonym: PCB 77
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

3,3',4,4'-Tetrachlorobiphenyl ($C_{12}H_6Cl_4$; MW=291.99) **[T-14]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	4.1
	110	5.0	6.4
	120	5.0	8.9
	130	5.0	10.9
	140	5.0	13.1
	150	5.0	15.0
	160	5.0	17.0
	170	5.0	18.8
	180	5.0	19.8
	190	5.0	21.8
	200	5.0	23.4
	220	5.0	25.7
	240	5.0	27.8
	260	5.0	30.1
	280	5.0	32.5
	300	5.0	35.7
323	100	5.0	0.8
	110	5.0	2.6
	120	5.0	5.5
	130	5.0	9.2
	140	5.0	12.9
	150	5.0	16.4
	160	5.0	19.6
	170	5.0	23.0
	180	5.0	26.4
	190	5.0	29.4
	200	5.0	32.3
	220	5.0	38.5
	240	5.0	44.5
	260	5.0	50.6
	280	5.0	56.0
	300	5.0	61.2
333	100	5.0	0.7
	110	5.0	1.2
	120	5.0	2.8
	130	5.0	5.5

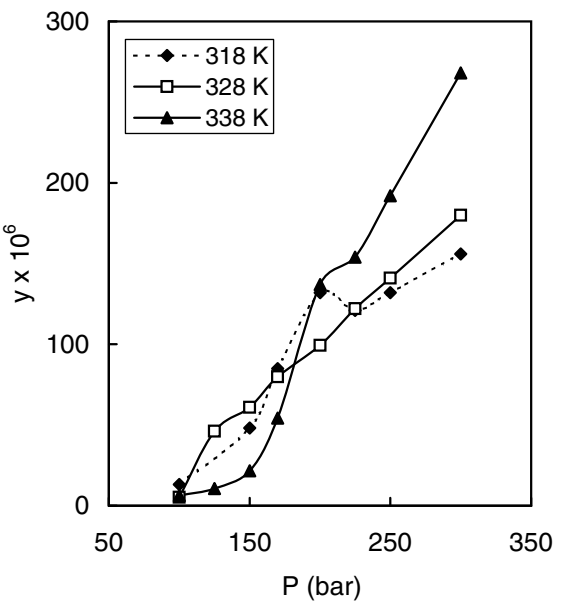


140	5.0	9.2
150	5.0	14.0
160	5.0	19.4
170	5.0	25.4
180	5.0	30.0
190	5.0	35.6
200	5.0	41.7
220	5.0	53.0
240	5.0	62.6
260	5.0	73.7
280	5.0	83.1
300	5.0	94.2

1: Cosolvent in CO_2.
Synonym: PCB 77
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Tetrachloroisophthalonitrile ($C_8Cl_4N_2$; MW=265.91) **[T-15]**

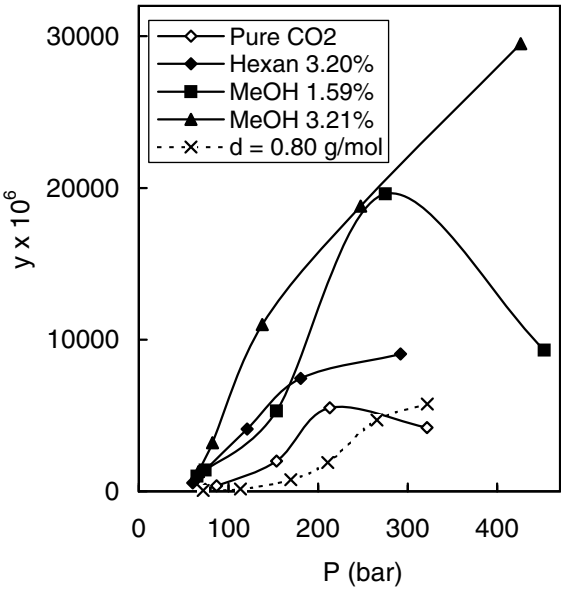
T (K)	P (bar)	y x 10^6
318	100	13.2
	150	48.1
	170	84.9
	200	132.0
	225	121.0
	250	132.0
	300	156.0
328	100	5.3
	125	46.2
	150	60.9
	170	79.9
	200	99.3
	225	122.0
	250	141.0
	300	180.0
338	100	6.4
	125	10.6
	150	21.7
	170	54.3
	200	137.0
	225	154.0
	250	192.0
	300	268.0



Synonyms: Chlorothalonil; 2,4,5,6-Tetrachloro-1,3-benzenedicarbonitrile
Source: Sahle-Demessie, E.; Pillai, U. R.; Junsophonsri, S.; Levien, K. L. *J. Chem. Eng. Data* (2003), 48(3), 541-547.

2,3,4,5-Tetrachlorophenol ($C_6H_2Cl_4O$; MW=231.89) **[T-16]**

T[1] (K)	P[2] (bar)	Cosolvent[3] (mol %)	y[4] x 10^6
295.2	74	0.00	130
	87	0.00	360
	154	0.00	2000
	213	0.00	5500
	322	0.00	4200
		n-Hexane	
	60	3.20	553
	65	3.20	848
	121	3.20	4114
	181	3.20	7438
	292	3.20	9060
		Methanol	
	65	1.59	1000
	74	1.59	1400
	154	1.59	5300
	275	1.59	19600
	452	1.59	9300
	67	3.21	1300
	82	3.21	3200
	138	3.21	11000
	247	3.21	18800
	426	3.21	29500
		ρ = constant (0.80 g/ml)	
294	72	0.00	62
303	113	0.00	162
314	170	0.00	770
323	211	0.00	1903
333	266	0.00	4704
345	322	0.00	5752



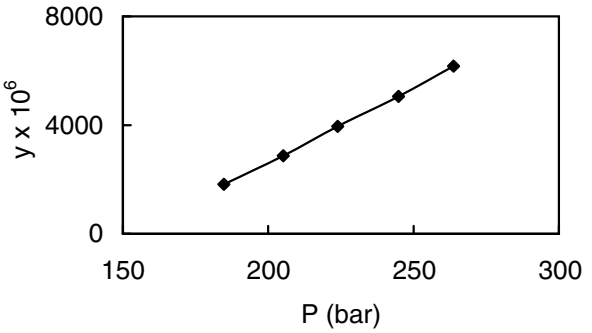
1: The temperature at 0.80 g/ml was obtained by digitizing the graph in the original article.
2: Calculated from temperature and density in the source graph.
3: Cosolvent in CO_2.
4: Obtained by digitizing the graph in the original article.
Source: Burk, R.; Kruus, P. *Can. J. Chem. Eng.* (1992), 70(2), 1403-1407.

Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-17]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
343	184.7	8.82	1820
	205.2	14.88	2866
	223.9	21.50	3952
	244.8	28.64	5051
	263.8	36.06	6166

1: Calculated from S.

Source: Chartier, T.; Delhomme, E.; Baumard, J. F.; Marteau, P.; Subra, P.; Tufeu, R. *Ind. Eng. Chem. Res.* (1999), 38(5), 1904-1910.

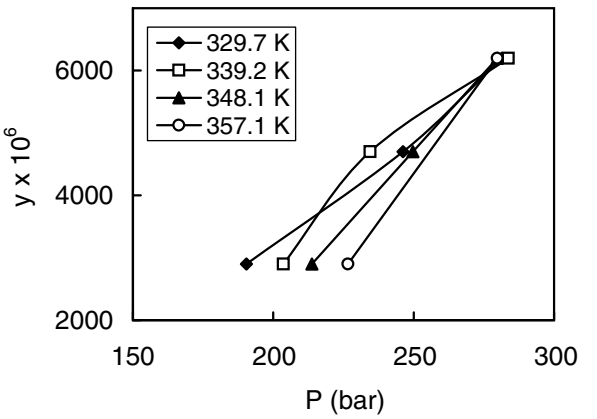


Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-18]**

T (K)	P (bar)	$w \times 10^6$	$y^{1)} \times 10^6$
329.7	190.4	22000	2900
	246.2	35000	4700
	281.4	46000	6200
339.2	203.6	22000	2900
	234.5	35000	4700
	283.7	46000	6200
348.1	213.8	22000	2900
	249.7	35000	4700
	279.8	46000	6200
357.1	226.6	22000	2900
	279.8	46000	6200

1: Calculated from w.

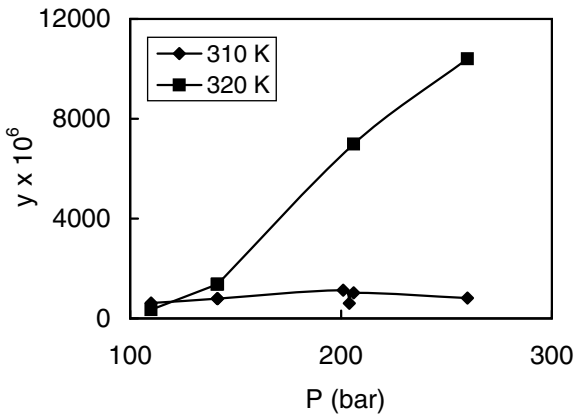
Source: Nieuwoudt, I.; du Rand, M. *J. Supercrit. Fluids* (2002), 22(3), 185-199.



Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-19]**

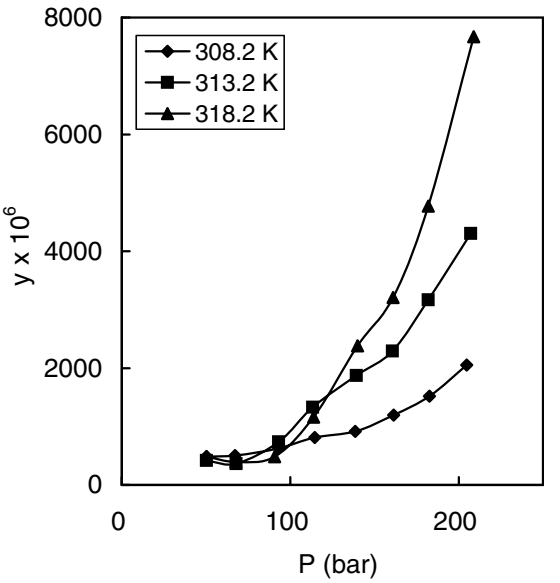
T (K)	P (bar)	$y \times 10^6$
310	110.0	620
	141.3	789
	141.5	792
	201.0	1130
	204.0	606
	206.0	1030
	260.0	820
320	110.0	353
	141.3	1370
	141.5	1380
	206.0	6980
	260.0	10400

Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-20]**

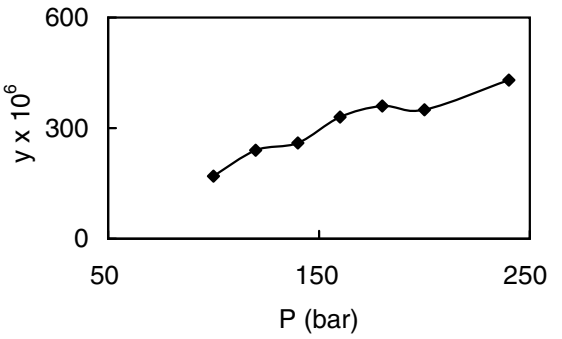
T (K)	P (bar)	y x 10^6
308.2	50.3	486
	67.2	503
	93.1	629
	114.5	813
	138.6	917
	161.3	1195
	182.7	1520
	204.8	2050
313.2	50.3	418
	67.9	363
	93.1	735
	113.4	1330
	139.3	1874
	160.7	2290
	182.0	3170
	207.2	4303
318.2	50.3	482
	67.7	394
	90.7	483
	113.8	1160
	140.0	2380
	161.0	3210
	182.0	4770
	208.9	7670



Source: Yau, J. S.; Tsai, F. N. *J. Chem. Eng. Data* (1993), 38(2), 171-174.

Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-21]**

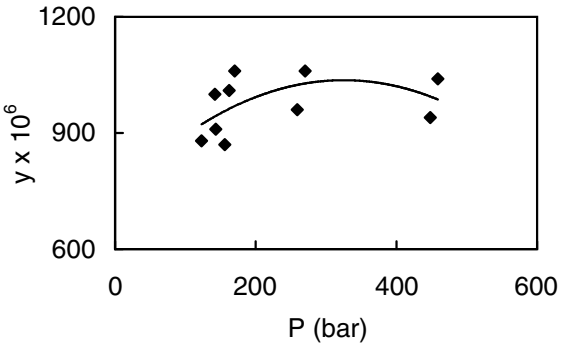
T (K)	P (bar)	y x 10^6
308.2	100	170
	120	240
	140	260
	160	330
	180	360
	200	350
	240	430



Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Tetracosane ($C_{24}H_{50}$; MW=338.65) **[T-22]**

T (K)	P (bar)	y x 10^6
310	123	880
	142	1000
	143	910
	156	870
	162	1010
	170	1060
	259	960
	270	1060
	448	940
	459	1040

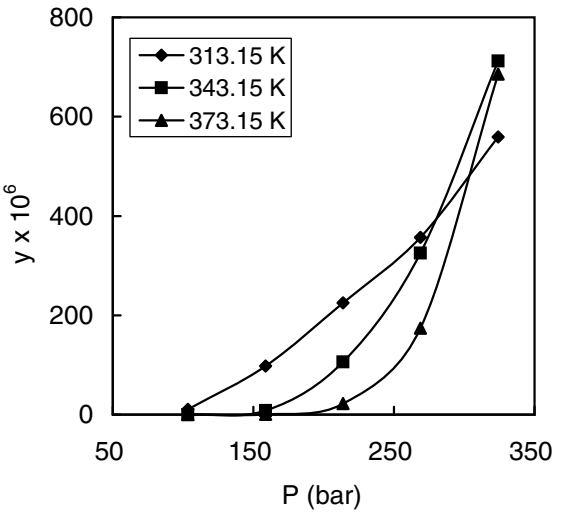


Source: Furuya, T.; Teja, A. S. *J. Supercrit. Fluids* (2004), 29(3), 231-236.

5,10,15,20-Tetrakis(3,5-bis(trifluoromethyl)phenyl)porphyrin **[T-23]**

($C_{52}H_{22}F_{24}N_4$; MW=1158.73)

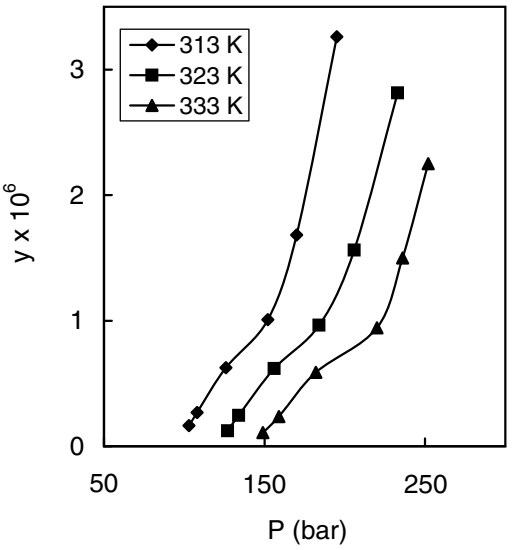
T (K)	P (bar)	y x 10^6
313.15	103	10.3
	159	97.8
	214	225.0
	269	357.0
	324	559.0
343.15	103	0.1
	159	8.3
	214	106.0
	269	325.0
	324	712.0
373.15	103	0.1
	159	0.7
	214	22.5
	269	174.0
	324	686.0



Source: Sane, A.; Taylor, S.; Sun, Y.-P.; Thies, M. C. *J. Supercrit. Fluids* (2004), 28(2-3), 277-285.

5,10,15,20-Tetrakis(pentafluorophenyl)porphyrin ($C_{44}H_{10}F_{20}N_4$; MW=974.55) **[T-24]**

T (K)	P (bar)	M x 10^6 (mol/L)	$y^{1)}$ x 10^6
313.15	103	2.44	0.164
	108	4.14	0.268
	126	10.50	0.627
	152	18.00	1.007
	170	31.00	1.683
	195	62.00	3.261
323.15	127	1.75	0.122
	134	3.66	0.245
	156	10.10	0.620
	184	16.80	0.965
	206	28.20	1.563
	233	52.50	2.814
333.15	149	1.49	0.108
	159	3.43	0.236
	182	9.28	0.588
	220	16.20	0.944
	236	26.40	1.501
	252	40.40	2.250



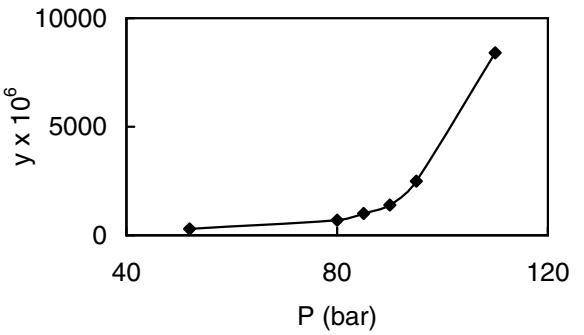
1: Calculated from M.

Synonym: 5,10,15,20-Tetrakis(pentafluorophenyl)porphine

Source: Sato, H.; Inada, Y.; Nagamura, T.; Funahashi, S. *J. Supercrit. Fluids* (2001), 21(1), 71-80.

Tetralin ($C_{10}H_{12}$; MW=132.20) **[T-25]**

T (K)	P (bar)	y x 10^6
323	52	300
	80	700
	85	1000
	90	1400
	95	2500
	110	8400

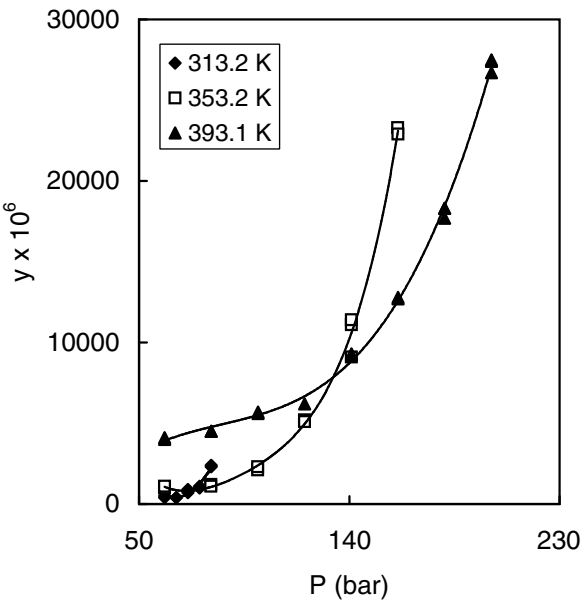


Synonym: 1,2,3,4-Tetrahydronaphthalene

Source: Mukhopadhyay, M.; De, S. K. *J. Chem. Eng. Data* (1995), 40(4), 909-913.

Tetralin ($C_{10}H_{12}$; MW=132.20) **[T-26]**

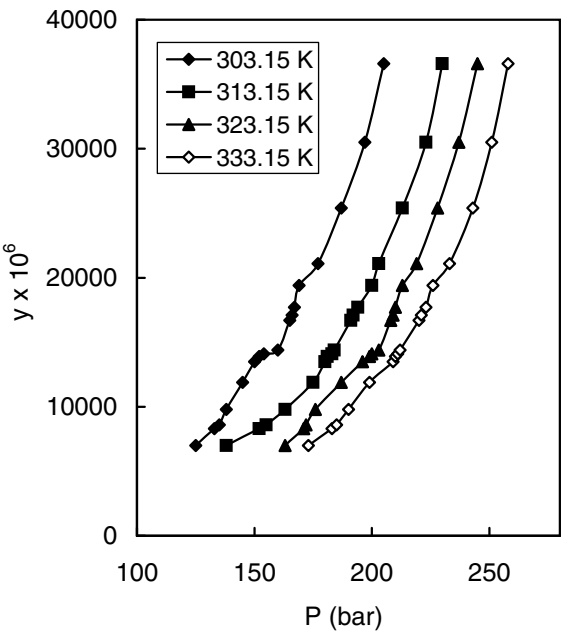
T (K)	P (bar)	y x 10^6
313.2	60.9	500
	60.9	400
	65.9	400
	65.9	400
	70.9	700
	70.9	900
	75.9	1100
	75.9	1000
	80.9	2400
	80.9	2300
353.2	60.9	1000
	60.9	1100
	80.8	1200
	80.8	1100
	100.8	2100
	100.8	2300
	120.9	5200
	120.9	5100
	140.9	11100
	140.9	11400
	140.9	9100
	160.8	23300
	160.9	22900
393.1	60.9	4000
	60.9	4100
	80.9	4500
	80.9	4500
	100.9	5600
	100.9	5700
	120.9	6200
	140.9	9300
	140.9	9200
	160.9	12800
	160.9	12700
	180.8	17700
	180.8	18300
	180.8	18300
	200.8	26700
	200.8	27400
	200.8	27500



Synonym: 1,2,3,4-Tetrahydronaphthalene
Source: Walther, D.; Maurer, G. *J. Chem. Eng. Data* (1993), 38, 247-249.

α-Tetralol ($C_{10}H_{12}O$; MW=148.20) **[T-27]**

T (K)	P (bar)	y x 10^6
303.15	125	7000
	133	8300
	135	8600
	138	9800
	145	11900
	150	13500
	152	13900
	154	14100
	160	14400
	165	16700
	166	17100
	167	17700
	169	19400
	177	21100
	187	25400
	197	30500
	205	36600
313.15	138	7000
	152	8300
	155	8600
	163	9800
	175	11900
	180	13500
	181	13900
	183	14100
	184	14400
	191	16700
	192	17100
	194	17700
	200	19400
	203	21100
	213	25400
	223	30500
	230	36600
323.15	163	7000
	171	8300
	172	8600
	176	9800
	187	11900
	196	13500
	199	13900
	200	14100
	203	14400
	208	16700

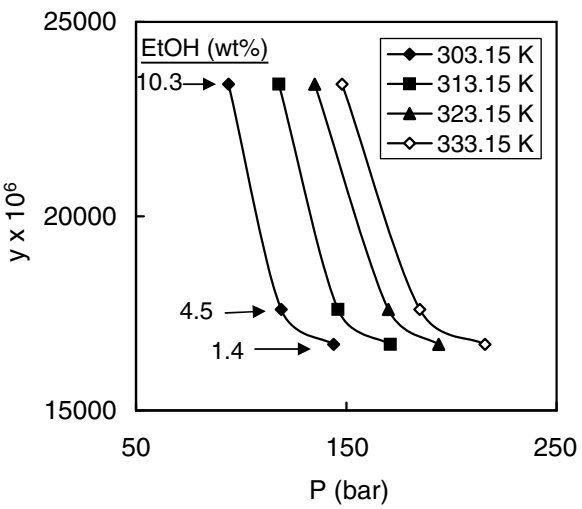


	209	17100
	210	17700
	213	19400
	219	21100
	228	25400
	237	30500
	245	36600
333.15	173	7000
	183	8300
	185	8600
	190	9800
	199	11900
	209	13500
	210	13900
	211	14100
	212	14400
	220	16700
	221	17100
	223	17700
	226	19400
	233	21100
	243	25400
	251	30500
	258	36600

Synonym: 1,2,3,4-Tetrahydro-1-naphthol
Source: Borg, P.; Jaubert, J.-N.; Denet, F. *Fluid Phase Equil.* (2001), 191(1-2), 59-69.

α-Tetralol ($C_{10}H_{12}O$; MW=148.20) **[T-28]**

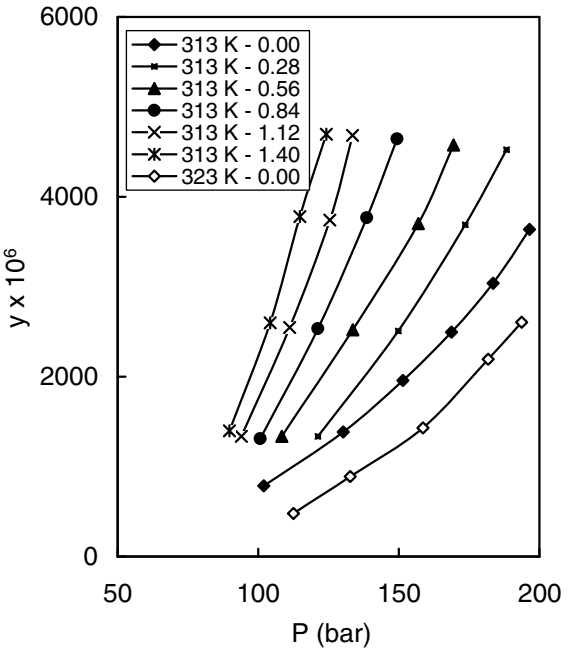
T (K)	P (bar)	Ethanol[1)] (wt%)	y x 10^6
303.15	94	10.3	23400
	119	4.5	17600
	144	1.4	16700
313.15	118	10.3	23400
	146	4.5	17600
	171	1.4	16700
323.15	135	10.3	23400
	170	4.5	17600
	194	1.4	16700
333.15	148	10.3	23400
	185	4.5	17600
	216	1.4	16700



1: Cosolvent in CO_2.
Synonym: 1,2,3,4-Tetrahydro-1-naphthol
Source: Borg, P. ; Jaubert, J.-N.; Denet, F. *Fluid Phase Equil.* (2001), 191(1-2), 59-69.

Tetraethylene glycol lauryl ether[1] ($C_{20}H_{42}O_5$; MW=362.54) **[T-29]**

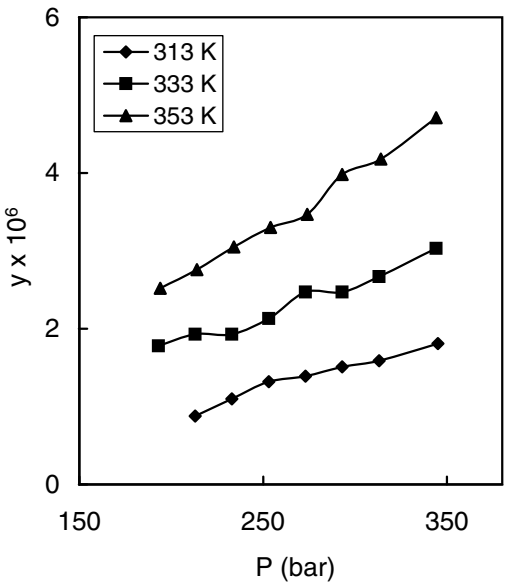
T (K)	P (bar)	*n*-Pentanol[2] (mol/L)	y[3] x 10^6
313.15	102.0	0.00	787
	130.2	0.00	1386
	151.5	0.00	1958
	168.7	0.00	2496
	183.5	0.00	3040
	196.5	0.00	3638
	121.2	0.28	1336
	149.8	0.28	2509
	173.6	0.28	3689
	188.3	0.28	4526
	108.4	0.56	1336
	133.6	0.56	2522
	156.9	0.56	3702
	169.5	0.56	4578
	100.7	0.84	1311
	121.2	0.84	2534
	138.6	0.84	3766
	149.4	0.84	4642
	94.0	1.12	1336
	111.2	1.12	2547
	125.5	1.12	3740
	133.5	1.12	4681
	89.8	1.40	1398
	104.2	1.40	2597
	114.8	1.40	3779
	124.2	1.40	4694
323.15	112.5	0.00	478
	132.7	0.00	891
	158.6	0.00	1430
	181.8	0.00	2195
	193.7	0.00	2606



1: In the source the name of the compound includes "laurel" instead of "lauryl".
2: Cosolvent in CO_2.
3: Caculated from w.
Synonym: Tetraethylene glycol monododecyl ether
Source: Liu, J.; Han, B. ; Li, G.; Liu, Z. ; He, J.; Yang, G. *Fluid Phase Equil.* (2001), 187-188, 247-254.

Theobromine ($C_7H_8N_4O_2$; MW=180.16) **[T-30]**

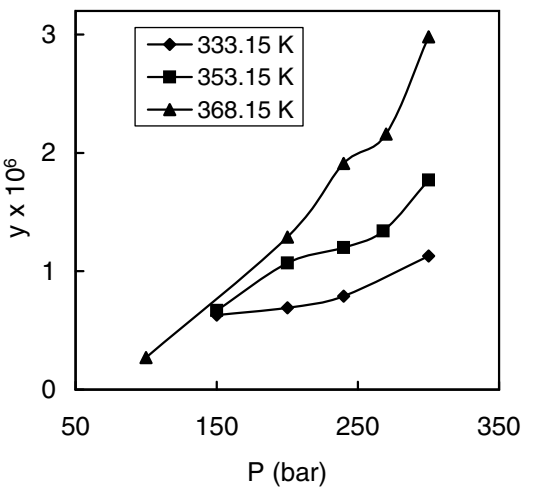
T (K)	P (bar)	y x 10^6
313	213	0.88
	233	1.10
	253	1.32
	273	1.39
	293	1.51
	313	1.59
	345	1.81
333	193	1.78
	213	1.93
	233	1.93
	253	2.13
	273	2.47
	293	2.47
	313	2.67
	344	3.03
353	194	2.52
	214	2.76
	234	3.05
	254	3.30
	274	3.47
	293	3.98
	314	4.18
	344	4.71



Synonyms: 3,7-Dimethylxanthine; 3,7-Dihydro-3,7-dimethyl-1*H*-purine-2,6-dione
Source: Johannsen, M.; Brunner, G. *Fluid Phase Equil.* (1994), 95, 215-226.

Theobromine ($C_7H_8N_4O_2$; MW=180.16) **[T-31]**

T (K)	P (bar)	y x 10^6
333.15	150	0.63
	200	0.69
	240	0.79
	300	1.13
353.15	150	0.67
	200	1.07
	240	1.20
	268	1.34
	300	1.77
368.15	100	0.27
	200	1.29
	240	1.91

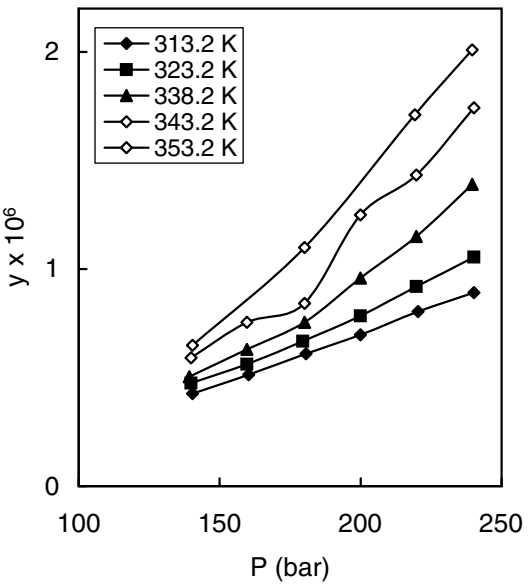


	270	2.16
	300	2.98

Synonyms: 3,7-Dimethyixanthine; 3,7-Dihydro-3,7-dimethyl-1*H*-purine-2,6-dione
Source: Li, S.; Varadarajan, G. S.; Hartland, S. *Fluid Phase Equil.* (1991), 68, 263-280.

Theobromine ($C_7H_8N_4O_2$; MW=180.16) **[T-32]**

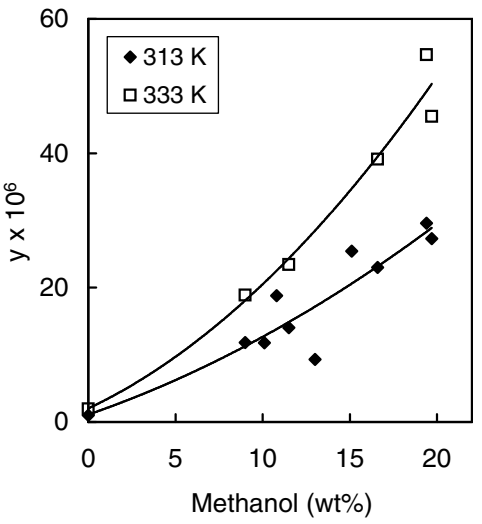
T (K)	P[1] (bar)	W[1] (g/kg)	y[2]	x 10^6
313.2	140	0.00174	0.426	
	160	0.00210	0.513	
	181	0.00250	0.610	
	200	0.00285	0.697	
	220	0.00329	0.804	
	240	0.00365	0.891	
323.2	140	0.00194	0.475	
	160	0.00230	0.562	
	180	0.00274	0.668	
	200	0.00321	0.784	
	220	0.00377	0.920	
	240	0.00432	1.056	
338.2	139	0.00206	0.504	
	160	0.00258	0.630	
	180	0.00309	0.755	
	200	0.00393	0.959	
	220	0.00472	1.150	
	240	0.00571	1.390	
343.2	140	0.00242	0.591	
	160	0.00309	0.755	
	180	0.00345	0.843	
	200	0.00511	1.250	
	220	0.00587	1.433	
	240	0.00714	1.743	
353.2	140	0.00266	0.649	
	180	0.00452	1.100	
	219	0.00698	1.710	
	240	0.00821	2.010	



1: Obtained by digitizing the graph in the original article.
2: Calculated from W.
Synonyms: 3,7-Dimethylxanthine; 3,7-Dihydro-3, 7-dimethyl-1*H*-purine-2,6-dione
Source: Saldana, M. D. A.; Mohamed, R. S.; Baer, M. G.; Mazzafera, P. *J. Agric. Food. Chem.* (1999), 47, 3804-3808.

Theobromine ($C_7H_8N_4O_2$; MW=180.16) **[T-33]**

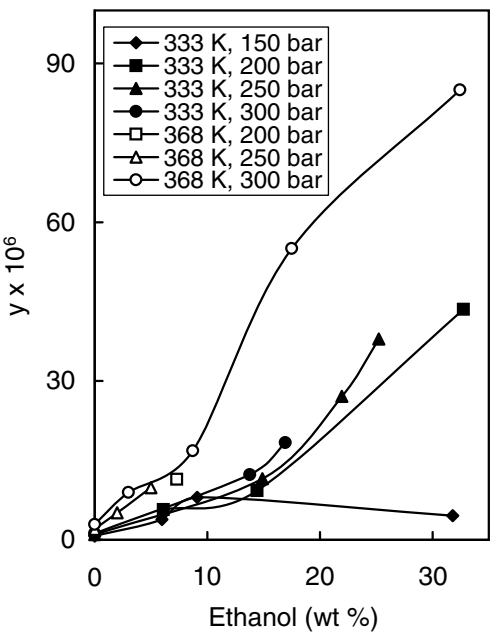
T (K)	P (bar)	Methanol[1] (wt%)	W (g/kg solv)	y[2] x 10^6
313	213	0.0	0.004	1.0
	219	9.0	0.050	11.8
	216	10.1	0.050	11.8
	217	10.8	0.080	18.8
	218	11.5	0.060	14.1
	216	13.0	0.040	9.3
	218	15.1	0.110	25.4
	220	16.6	0.100	23.0
	217	19.4	0.130	29.6
	216	19.7	0.120	27.3
333	213	0.0	0.008	2.0
	219	9.0	0.080	18.9
	218	11.5	0.100	23.4
	220	16.6	0.170	39.1
	217	19.4	0.240	54.7
	216	19.7	0.200	45.5



1: Cosolvent in CO_2 on a solute-free basis.
2: Calculated from W.
Synonyms: 3,7-Dimethylxanthine; 3,7-Dihydro-3, 7-dimethyl-1*H*-purine-2,6-dione
Source: Johannsen, M.; Brunner, G. *J. Chem. Eng. Data* (1995), 40(2), 431-434.

Theobromine ($C_7H_8N_4O_2$; MW=180.16) **[T-34]**

T (K)	P[1] (bar)	Ethanol[2] (wt %)	w[3] x 10^6	y[4] x 10^6
333.15	150	0.00	3	0.7
		5.96	16	3.8
		9.09	34	8.0
		31.80	21	4.6
	200	6.11	24	5.7
		14.42	40	9.3
		32.76	200	43.5
	250	0.00	4	1.0
		14.89	50	11.6
		21.94	120	27.1
		25.24	170	37.9
	300	0.00	5	1.2
		13.79	53	12.3
		16.93	80	18.4
368.15	200	7.29	48	11.4
	250	0.00	8	2.0
		2.00	21	5.1
		5.00	41	9.8

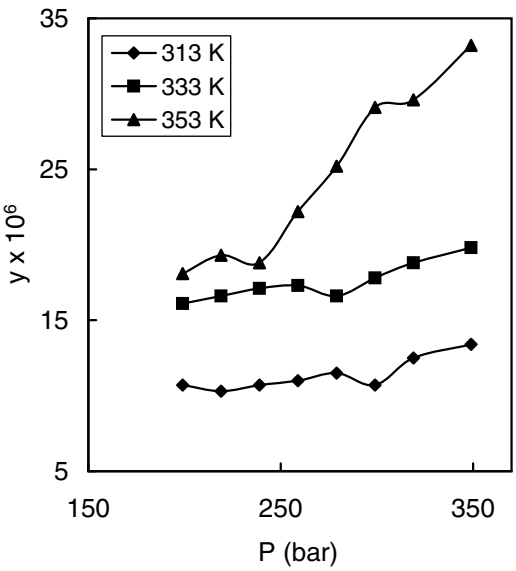


300	0.00	12	2.9
	3.00	37	8.9
	8.71	71	16.8
	17.50	240	55.0
	32.43	390	85.0

1: Calculated from density and temperature data.
2: Cosolvent in CO_2 on a solute-free basis.
3: Obtained by digitizing the graph in the original article.
4: Calculated from w.
Synonyms: 3,7-Dimethylxanthine; 3,7-Dihydro-3, 7-dimethyl-1*H*-purine-2,6-dione
Source: Li, S.; Hartland, S. *J. Supercrit. Fluids* (1992), 5(1), 7-12.

Theophylline ($C_7H_8N_4O_2$; MW=180.16) **[T-35]**

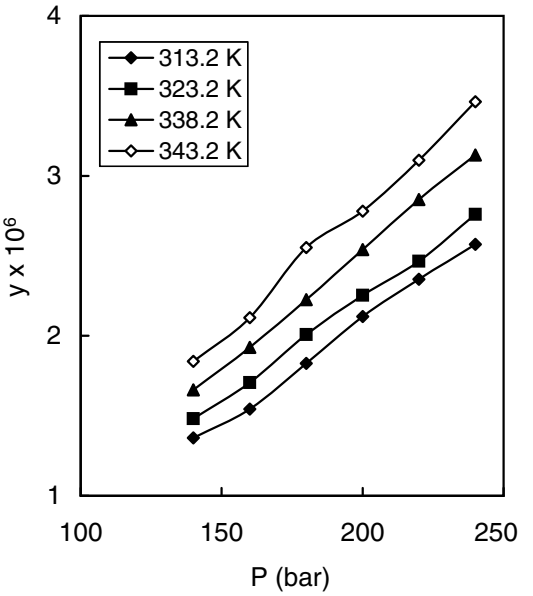
T (K)	P (bar)	y x 10^6
313	199	10.7
	219	10.3
	239	10.7
	259	11.0
	279	11.5
	299	10.7
	319	12.5
	349	13.4
333	199	16.1
	219	16.6
	239	17.1
	259	17.3
	279	16.6
	299	17.8
	319	18.8
	349	19.8
353	199	18.1
	219	19.3
	239	18.8
	259	22.2
	279	25.2
	299	29.1
	319	29.6
	349	33.2



Synonym: 1,3-Dimethylxanthine
Source: Johannsen, M.; Brunner, G. *Fluid Phase Equil.* (1994), 95, 215-226.

Theophylline ($C_7H_8N_4O_2$; MW=180.16) **[T-36]**

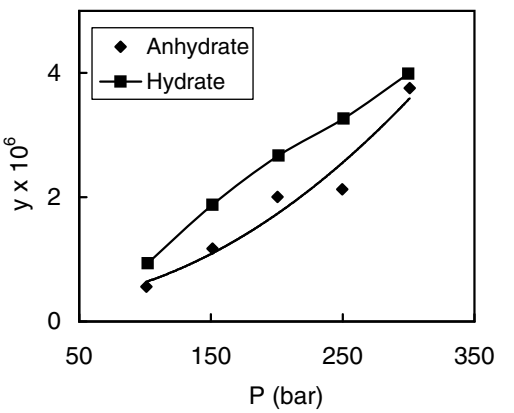
T (K)	P[1] (bar)	W[1] (mg/kg)	y[2] x 10^6
313.2	140	5.58	1.36
	160	6.31	1.54
	180	7.48	1.83
	200	8.68	2.12
	220	9.63	2.35
	240	10.53	2.57
323.2	140	6.07	1.48
	160	6.99	1.71
	180	8.22	2.01
	200	9.22	2.25
	220	10.10	2.47
	240	11.29	2.76
338.2	140	6.80	1.66
	160	7.89	1.93
	180	9.12	2.23
	200	10.40	2.54
	220	11.67	2.85
	240	12.82	3.13
343.2	140	7.54	1.84
	160	8.65	2.11
	180	10.45	2.55
	200	11.37	2.78
	220	12.68	3.10
	240	14.18	3.46



1: Obtained by digitizing the graph in the original article.
2: Calculated from W.
Synonym: 1,3-Dimethylxanthine
Source: Saldana, M. D. A.; Mohamed, R. S.; Baer, M.G.; Mazzafera, P. *J. Agric. Food. Chem.* (1999), 47, 3804-3808.

Theophylline ($C_7H_8N_4O_2$; MW=180.16) **[T-37]**

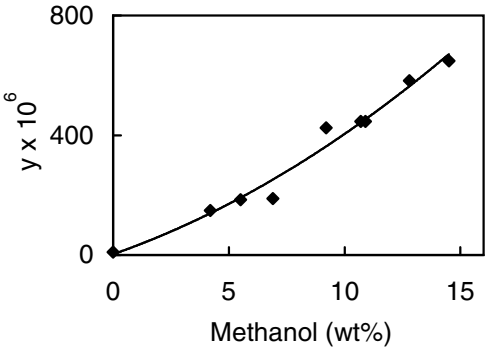
T (K)	P[1] (bar)	y[1] x 10^6
	Anhydrate	
313.15	101.1	0.56
	151.2	1.17
	200.5	2.00
	249.7	2.13
	300.8	3.75
Hydrate ($C_7H_8N_4O_2.H_2O$)		
313.15	102.0	0.94
	151.2	1.88
	201.4	2.67
	250.6	3.27
	299.8	3.99



1: Obtained by digitizing the graph in the original article.
Synonym: 1,3-Dimethylxanthine
Source: Bettini, R.; Bertolini, G.; Frigo, E.; Rossi, A.; Casini, I.; Pasquali, I.; Giordano, F. *J. Therm. Anal. Cal.* (2004), 77(2), 625-638.

Theophylline ($C_7H_8N_4O_2$; MW=180.16) **[T-38]**

T (K)	P (bar)	Methanol[1] (wt%)	W (g/kg solv)	$y^{2)} \times 10^6$
313	219	0.0	0.04	10
	218	4.2	0.62	149
	218	5.5	0.77	184
	218	6.9	0.79	188
	218	9.2	1.80	425
	218	10.7	1.90	446
	218	10.9	1.90	446
	218	12.8	2.50	582
	218	14.5	2.80	648



1: Cosolvent in CO_2 on a solute-free basis.

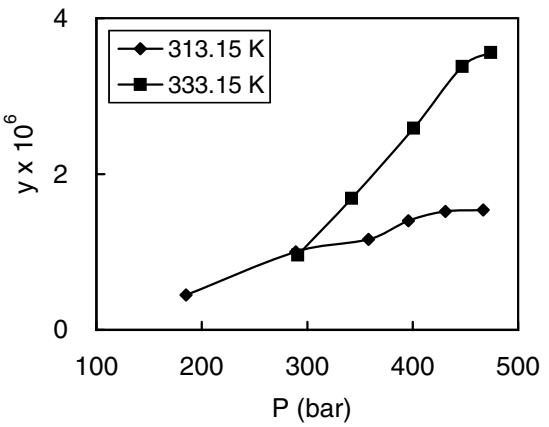
2: Calculated from W.

Synonym: 1,3-Dimethylxanthine

Source: Johannsen, M.; Brunner, G. *J. Chem. Eng. Data* (1995), 40(2), 431-434.

Thiamphenicol ($C_{12}H_{15}Cl_2NO_5S$; MW=356.22) **[T-39]**

T (K)	P (bar)	$y \times 10^6$
313.15	185	0.45
	289	1.00
	358	1.16
	396	1.40
	431	1.52
	467	1.54
333.15	291	0.96
	342	1.69
	401	2.59
	447	3.38
	474	3.56



Synonym: 2,2-Dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-[4-(methylsulfonyl) phenyl]ethyl]acetamide

Source: Li, S.; Maxwell, R. J.; Shadwell, R. J. *Fluid Phase Equil.* (2002), 198(1), 67-80.

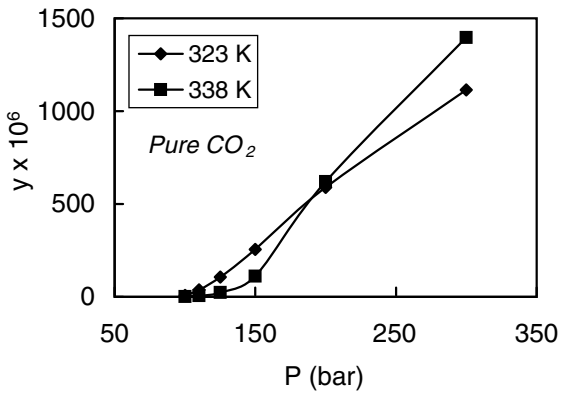
2-(Thiocyanomethylthio)benzothiazole ($C_9H_6N_2S_3$; MW=238.36) **[T-40]**

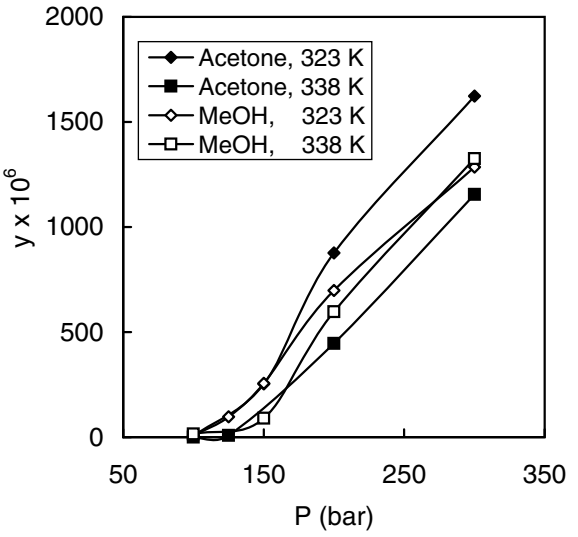
T (K)	P (bar)	Cosolvent[1)] (mol%)	y x 10^6
323	100	0.0	8
	110	0.0	38
	125	0.0	107
	150	0.0	256
	200	0.0	590
	300	0.0	1115
338	100	0.0	2
	110	0.0	6
	125	0.0	23
	150	0.0	111
	200	0.0	621
	300	0.0	1396
		Acetone	
323	100	1.68	5
	150	1.68	254
	200	1.68	877
	300	1.68	1623
338	100	1.68	1
	125	1.68	9
	200	1.68	446
	300	1.68	1155
	150	1.0	103
	150	3.5	245
	150	5.0	427
		Methanol	
323	100	3.0	6
	125	3.0	96
	150	3.0	257
	200	3.0	698
	300	3.0	1286
338	100	3.0	15
	150	3.0	90
	200	3.0	597
	300	3.0	1325
	150	1.0	86
	150	5.0	178
	150	10.0	435

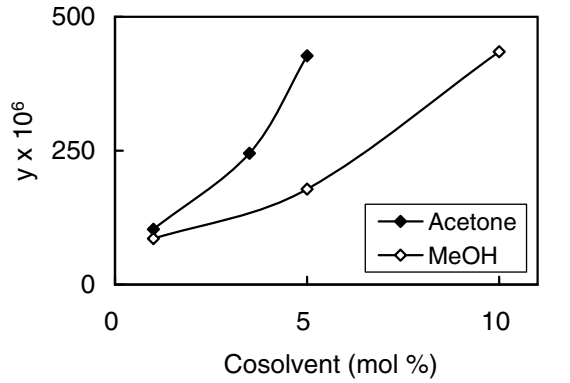
1: Cosolvent in CO_2.

Synonym: 2-(Thiocyanatomethylthio) benzo[*d*]thiazole

Source: Sahle-Demessie, E.; Pillai, U. R.; Junsophonsri, S.; Levien, K. L. *J. Chem. Eng. Data* (2003), 48(3), 541-547.

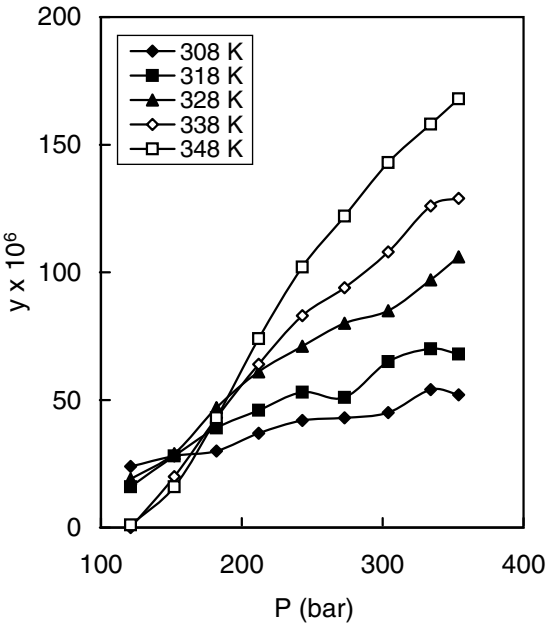






Thioxanthone ($C_{13}H_8OS$; MW=212.27) **[T-41]**

T (K)	P (bar)	S (g/L)	y x 10^6
308	121	0.09	24
	152	0.11	28
	182	0.12	30
	212	0.16	37
	243	0.18	42
	273	0.19	43
	304	0.20	45
	334	0.25	54
	354	0.24	52
318	121	0.05	16
	152	0.10	28
	182	0.15	39
	212	0.18	46
	243	0.22	53
	273	0.22	51
	304	0.28	65
	334	0.31	70
	354	0.30	68
328	121	0.05	19
	152	0.09	29
	182	0.16	47
	212	0.23	61
	243	0.28	71
	273	0.32	80
	304	0.35	85
	334	0.41	97
	354	0.45	106
338	121	0.00	0
	152	0.05	20
	182	0.14	43
	212	0.22	64
	243	0.30	83
	273	0.36	94
	304	0.42	108
	334	0.51	126
	354	0.53	129
348	121	0.00	1
	152	0.04	16
	182	0.12	43
	212	0.23	74
	243	0.34	102
	273	0.44	122
	304	0.53	143

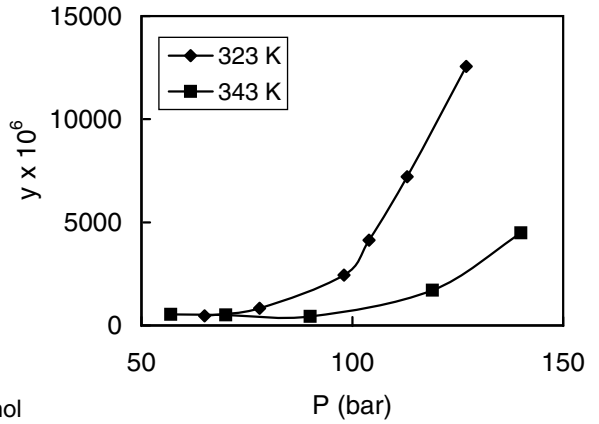


334	0.61	158
354	0.66	168

Synonyms: Thioxanthen-9-one; 9-Thioxanthone
Source: Shamsipur, M.; Karami, A. R.; Yamini, Y.; Sharghi, H.; Salimi, A. R. *J. Chem. Eng. Data* (2003), 48(5), 1088-1091.

Thymol ($C_{10}H_{14}O$; MW=150.22) **[T-42]**

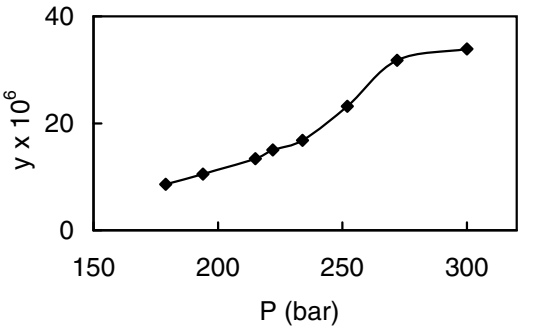
T (K)	P (bar)	y x 10^6
323	65	470
	78	830
	98	2440
	104	4140
	113	7210
	127	12560
343	57	540
	70	510
	90	440
	119	1710
	140	4490



Synonym: 5-Methyl-2-(1-methylethyl)phenol
Source: Mukhopadhyay, M.; De, S. K. *J. Chem. Eng. Data* (1995), 40(4), 909-913.

Titanocene dichloride ($C_{10}H_{10}Cl_2Ti$; MW=249.00) **[T-43]**

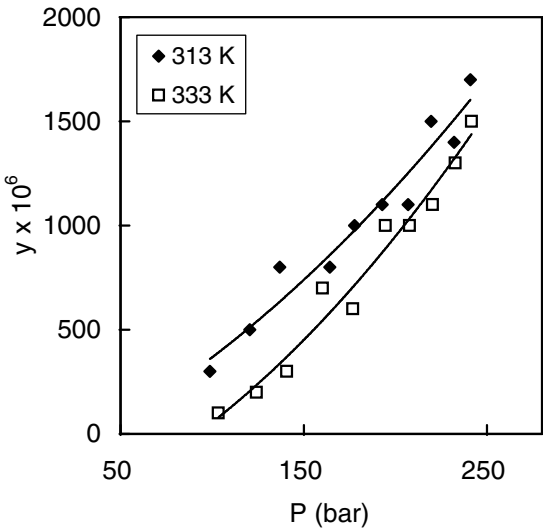
T (K)	P (bar)	y x 10^6
337	179	8.6
	194	10.5
	215	13.4
	222	15.0
	234	16.8
	252	23.2
	272	31.8
	300	33.9



Synonym: Dichlorobis(η^5-cyclopenta dienyl) titanium
Source : Wang, J.; Chen, J.; Yang, Y. *Fluid Phase Equil.* (2004), 220(2), 147-151.

α-Tocopherol ($C_{29}H_{50}O_2$; MW=430.71) **[T-44]**

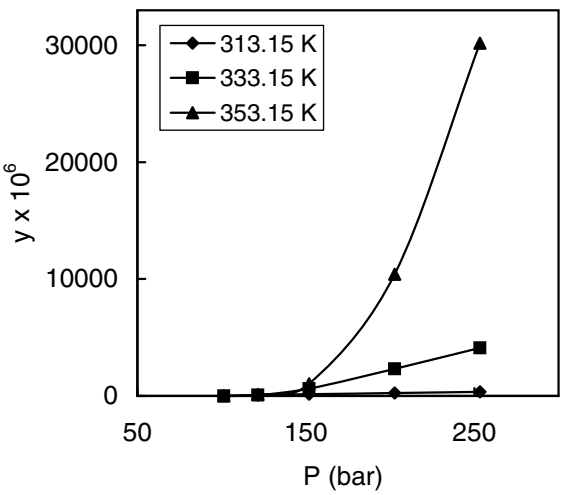
T (K)	P (bar)	y x 10^6
313	98.8	300
	120.5	500
	136.9	800
	164.2	800
	177.7	1000
	192.8	1100
	207.0	1100
	219.5	1500
	232.0	1400
	240.9	1700
333	103.3	100
	124.1	200
	140.7	300
	160.2	700
	176.8	600
	194.6	1000
	207.8	1000
	220.3	1100
	232.6	1300
	241.6	1500



Synonyms: (2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyltridecyl]-2*H*-1-benzopyran-6-ol; DL-α-Tocopherol; Vitamin E
Source: Chen, C.-C.; Chang, C.-m. J.; Yang, P.-w.; *Fluid Phase Equil.* (2000), 175(1-2), 107-115.

α-Tocopherol ($C_{29}H_{50}O_2$; MW=430.71) **[T-45]**

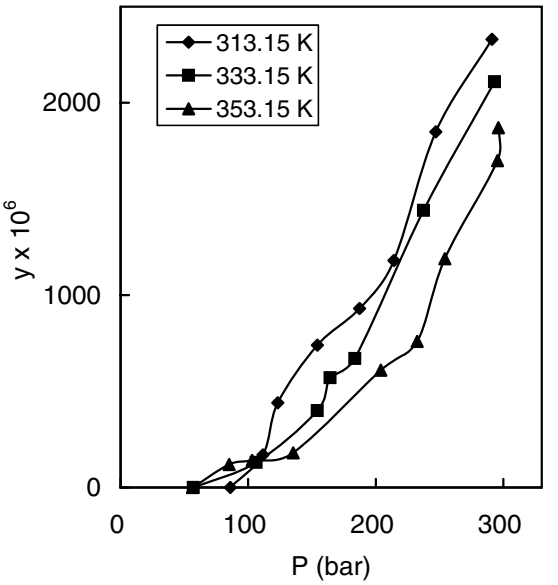
T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	101.3	0.20	32
	121.6	0.58	82
	152.0	1.11	144
	202.7	2.04	247
	253.3	3.01	348
333.15	101.3	0.01	3
	121.6	0.31	70
	152.0	3.78	628
	202.7	16.51	2306
	253.3	32.05	4120
353.15	101.3	0.02	9
	121.6	0.35	117
	152.0	4.51	1048
	202.7	62.10	10411
	253.3	211.10	30190



1: Calculated from S.
Synonyms: (2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyltridecyl]-2*H*-1-benzopyran-6-ol; DL-α-Tocopherol; Vitamin E
Source: *Chrastil,* J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

α-Tocopherol ($C_{29}H_{50}O_2$; MW=430.71) **[T-46]**

T (K)	P (bar)	y x 10^6
313.15	86	0
	112	170
	123	440
	154	740
	187	930
	214	1180
	247	1850
	291	2330
333.15	57	0
	106	130
	154	400
	164	570
	184	670
	237	1440
	293	2110
353.15	56	0
	85	120
	103	140
	135	180
	204	610
	232	760
	254	1190
	295	1700
	296	1870

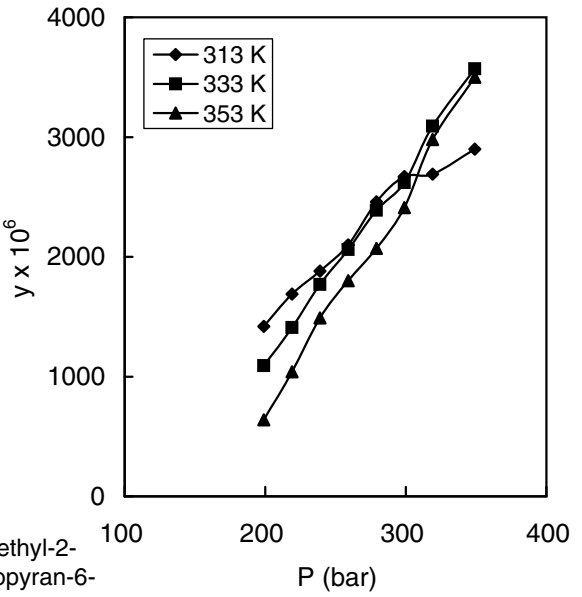


Synonyms: (2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyltridecyl]-2*H*-1-benzopyran-6-ol; DL-α -Tocopherol; Vitamin E
Source: Fang, T.; Goto, M.; Yun, Z.; Ding, X.-l.; Hirose, T. *J. Supercrit. Fluids* (2004), 30(1), 1-16.

α-Tocopherol ($C_{29}H_{50}O_2$; MW=430.71) **[T-47]**

T (K)	P (bar)	W (g/kg)	y x 10^6
313	199	13.7	1420
	219	16.3	1690
	239	18.1	1880
	259	20.2	2100
	279	23.6	2460
	299	25.5	2670
	319	25.7	2690
	349	27.7	2900

333	199	10.6	1090
	219	13.6	1410
	239	17.1	1770
	259	19.8	2060
	279	22.9	2390
	299	25.1	2620
	319	29.4	3090
	349	33.9	3570
353	199	6.2	640
	219	10.1	1040
	239	14.4	1490
	259	17.3	1800
	279	19.9	2070
	299	23.0	2410
	319	28.4	2980
	349	33.2	3500

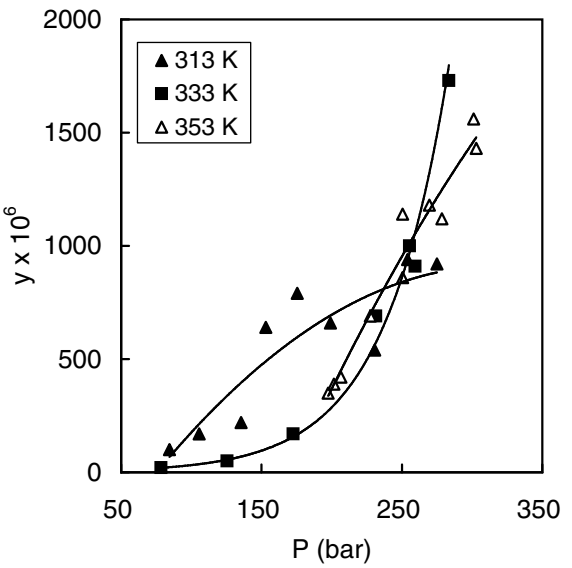


Synonyms: (2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyltridecyl]-2*H*-1-benzopyran-6-ol; DL-α-Tocopherol; Vitamin E

Source: Johannsen, M. ; Brunner, G. *J. Chem. Eng. Data* (1997), 42(1), 106-111.

α-Tocopherol ($C_{29}H_{50}O_2$; MW=430.71) **[T-48]**

T (K)	P (bar)	w x 10^6	y x 10^6
313	84.5	1000	100
	105.5	1700	170
	135.5	2200	220
	153.0	6200	640
	175.5	7700	790
	199.0	6500	660
	230.5	5200	540
	254.0	9200	940
	275.0	8900	920
333	78.5	200	20
	125.5	500	50
	172.5	1600	170
	231.5	6700	690
	255.5	9700	1000
	259.5	8900	910
	283.5	16700	1730
353	197.5	3400	350
	201.5	3800	390
	206.5	4100	420
	227.5	6700	690
	250.5	8400	860
	250.5	11100	1140

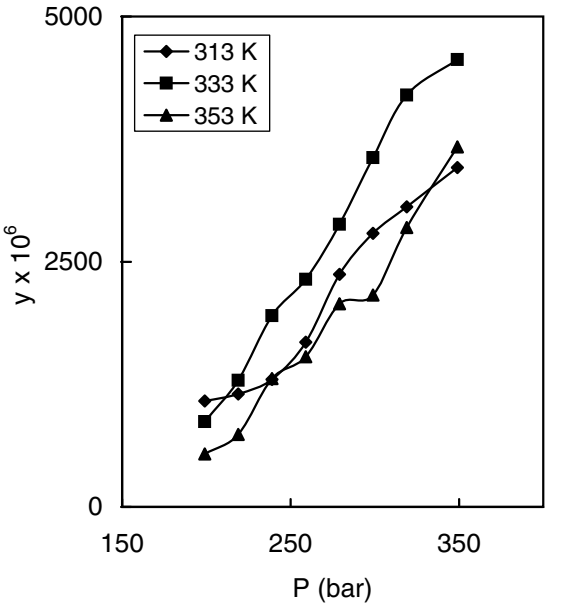


269.5	11400	1180
278.5	10900	1120
301.0	15100	1560
303.0	13900	1430

Synonyms: (2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyltridecyl]-2*H*-1-benzopyran-6-ol; DL-α-Tocopherol; Vitamin E
Source: Skerget, M.; Kotnik, P.; Knez, Z. *J. Supercrit. Fluids* (2003), 26(3), 181-191.

δ-Tocopherol ($C_{27}H_{46}O_2$; MW=402.65) **[T-49]**

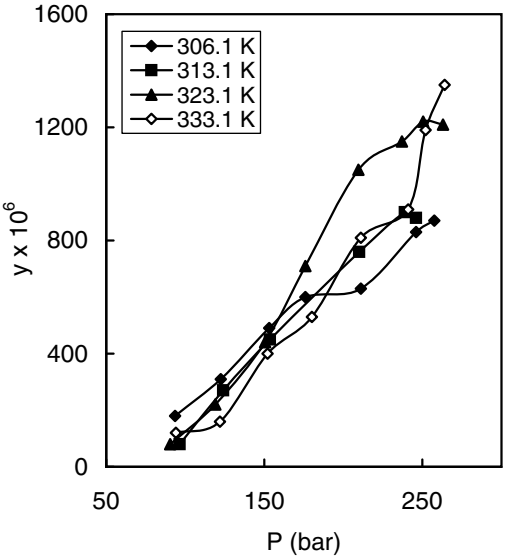
T (K)	P (bar)	W[1)] (g/kg)	y x 10^6
313	199	9.7	1080
	219	10.4	1150
	239	11.7	1300
	259	15.1	1680
	279	21.2	2370
	299	25.0	2790
	319	27.3	3060
	349	30.8	3460
333	199	7.9	870
	219	11.7	1290
	239	17.5	1950
	259	20.8	2320
	279	25.7	2880
	299	31.7	3560
	319	37.1	4200
	349	40.2	4560
353	199	4.9	540
	219	6.7	740
	239	11.9	1310
	259	13.8	1530
	279	18.6	2070
	299	19.4	2160
	319	25.5	2850
	349	32.6	3670



1: The equilibrium solubility was measured in a quasistatic apparatus. (See the table below.)
Synonyms: [2*R*[2*R**(4*R**,8*R**)]]-3,4-Dihydro-2,8-dimethyl-2-(4,8,12-trimethyltridecyl)-2*H*-benzopyran-6-ol; D-δ-Tocopherol
Source: Johannsen, M. ; Brunner, G. *J. Chem. Eng. Data* (1997), 42(1), 106-111.

δ-Tocopherol ($C_{27}H_{46}O_2$; MW=402.65) **[T-50]**

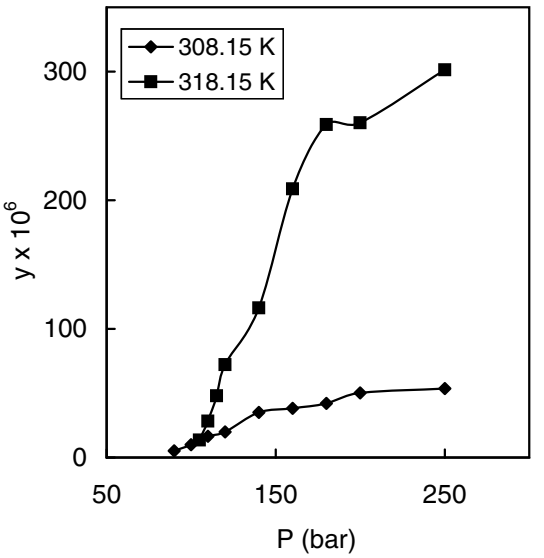
T (K)	P (bar)	y x 10^6
306.1	93.5	180
	122.5	310
	153.0	490
	176.0	600
	211.0	630
	246.0	830
	257.5	870
313.1	96.5	80
	124.0	270
	153.5	450
	210.0	760
	239.0	900
	246.0	880
323.1	90.5	80
	119.0	220
	150.5	440
	176.0	710
	209.5	1050
	237.0	1150
	250.5	1220
	263.0	1210
333.1	94.0	120
	122.0	160
	152.0	400
	180.0	530
	211.0	810
	241.0	910
	252.0	1190
	264.0	1350



1: The equilibrium solubility was measured in a flow apparatus. (See the table above).
Synonyms: [2*R* [2*R**(4*R**,8*R**)]]-3,4-Dihydro-2,8-dimethyl-2-(4,8,12-trimethyltridecyl)-2*H*-benzopyran-6-ol; D-δ-Tocopherol
Source: Pereira, P. J.; Coto, B.; Menduina, C.; de Azevedo, E. G.; da Ponte, M. N. *Fluid Phase Equil.*(2004), 216(1), 53-57.

Triacontane ($C_{30}H_{62}$; MW=422.81) **[T-51]**

T (K)	P (bar)	S (g/L)	y x 10^6
308.15	90	0.033	5.1
	100	0.075	10.0
	110	0.122	16.5
	120	0.159	20.0
	140	0.288	35.1
	160	0.319	38.2
	180	0.360	42.0
	200	0.432	50.3
	250	0.482	53.6
318.15	105	0.071	13.5
	110	0.161	28.3
	115	0.292	47.9
	120	0.459	72.1
	140	0.801	116.3
	160	1.526	208.9
	180	1.967	258.8
	200	2.038	260.1
	250	2.477	301.3

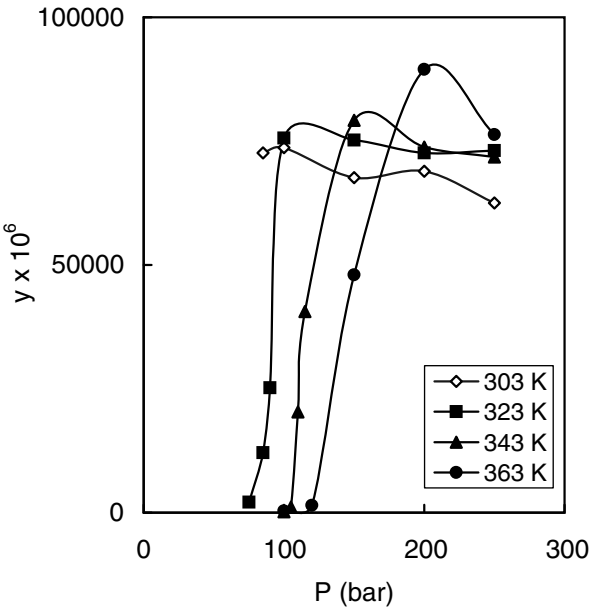


Source: Reverchon, E.; Russo, P.; Stassi, A. *J. Chem. Eng. Data* (1993), 38(3), 458-460.

Tributyl phosphate ($C_{12}H_{27}O_4P$; MW=266.31) **[T-52]**

T (K)	P (bar)	M (mol/L)	$y^{1)}$ x 10^6
303	85	1.300	72600
	100	1.400	73700
	150	1.400	67600
	200	1.500	68900
	250	1.400	62500
313	85	0.760	83100
	100	1.200	76700
	150	1.300	68100
	200	1.400	68200
	250	1.400	65300
323	75	0.009	2110
	85	0.070	12100
	90	0.170	25200
	100	0.730	75600

	150	1.300	75200
	200	1.400	72600
	250	1.500	73100
333	85	0.001	131
	90	0.005	832
	93	0.011	1909
	96	0.130	20800
	100	0.420	59200
	120	0.710	66100
	150	1.100	73600
	200	1.200	67700
	250	1.300	67600
338	90	0.001	166
	100	0.020	3270
	110	0.240	31600
	120	0.330	36100
	150	1.000	72900
	200	1.300	76100
	250	1.400	74600
343	100	0.001	162
	105	0.007	1130
	110	0.140	20300
	115	0.310	40600
	150	1.000	79200
	200	1.200	73800
	250	1.300	71800
353	85	0.001	165
	100	0.002	335
	110	0.004	593
	120	0.049	7150
	150	0.650	62200
	200	1.200	81200
	250	1.300	76700
363	100	0.002	344
	120	0.009	1460
	150	0.430	48000
	200	1.200	89500
	250	1.200	76300

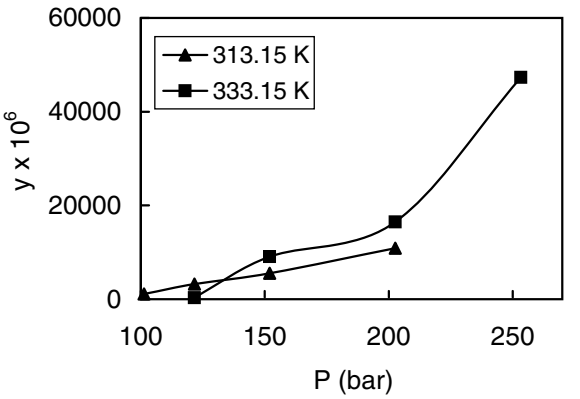


1: Calculated from M.
Synonym: Phosphoric acid tributyl ester
Source: Meguro, Y.; Iso, S.; Sasaki, T.; Yoshida, Z. *Anal. Chem.* (1998), 70(4), 774-779.

Tributyrin ($C_{15}H_{26}O_6$; MW=302.36) **[T-53]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	101.3	4.92	1110
	121.6	16.04	3210
	152.0	30.01	5530
	202.7	64.15	10900
333.15	121.6	0.97	313
	152.0	38.80	9100
	202.7	84.20	16500
	253.3	270.10	47300

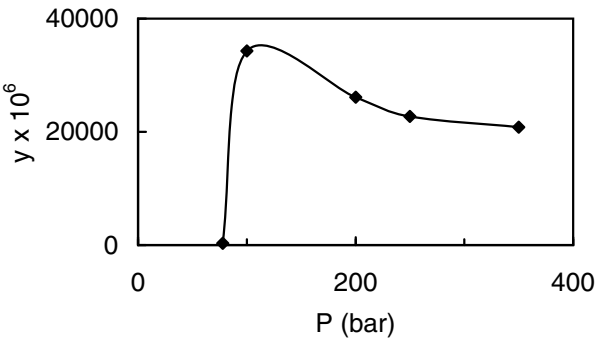
1: Calculated from S.
Synonyms: Glycerin tributyrate; Glycerol tributanoate; Tributanoin
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



Tributyrin ($C_{15}H_{26}O_6$; MW=302.36) **[T-54]**

T (K)	$P^{1)}$ (bar)	$S^{1)}$ $(g/L)^{2)}$	$y^{3)} \times 10^6$
313.2	78	0.004	320
	100	0.442	34300
	200	0.333	26100
	250	0.288	22700
	350	0.264	20800

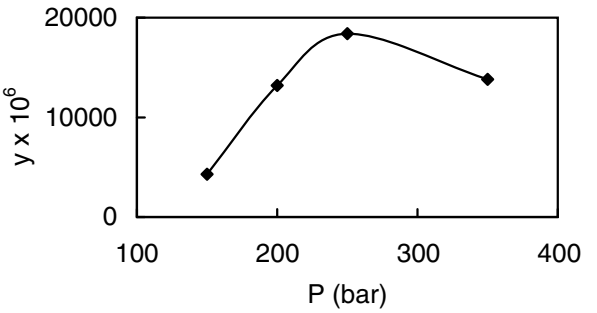
1: Obtained by digitizing the graph in the original article.
2: Solubility unit in gram of solute per liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: Glycerin tributyrate; Glycerol tributanoate; Tributanoin
Source: Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106.



Tricaprin ($C_{33}H_{62}O_6$; MW=554.84) **[T-55]**

T (K)	$P^{1)}$ (bar)	$S^{1)}$ $(g/L)^{2)}$	$y^{3)} \times 10^6$
313.2	150	0.099	4300
	200	0.304	13200
	250	0.427	18400
	350	0.319	13800

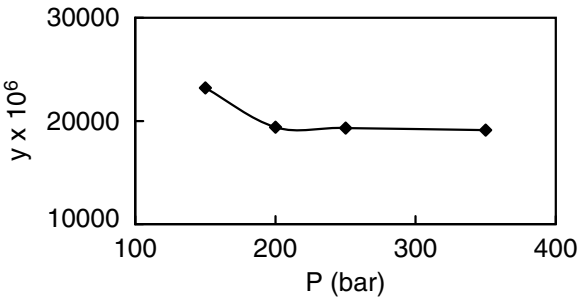
1: Obtained by digitizing the graph in the original article.
2: Solubility unit in gram of solute per liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: Glycerol tricaprate; Glycerin tridecanoate; Tridecanoin
Source: Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106.



Tricaproin ($C_{21}H_{38}O_6$; MW=386.52) **[T-56]**

T (K)	P[1] (bar)	S[1] (g/L)[2]	y[3] x 10^6
313.2	150	0.377	23200
	200	0.315	19400
	250	0.313	19300
	350	0.308	19100

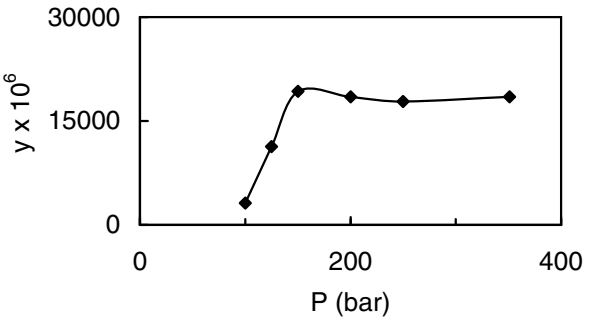
1: Obtained by digitizing the graph in the original article.
2: Solubility unit in gram of solute per liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: Glycerin trihexanoate; Glycerol tricaproate; Trihexanoin
Source: Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106.



Tricaprylin ($C_{27}H_{50}O_6$; MW=470.68) **[T-57]**

T (K)	P[1] (bar)	S[1] (g/L)[2]	y[3] x 10^6
313.2	100	0.061	3160
	125	0.220	11300
	150	0.380	19300
	200	0.365	18500
	250	0.350	17800
	351	0.365	18500

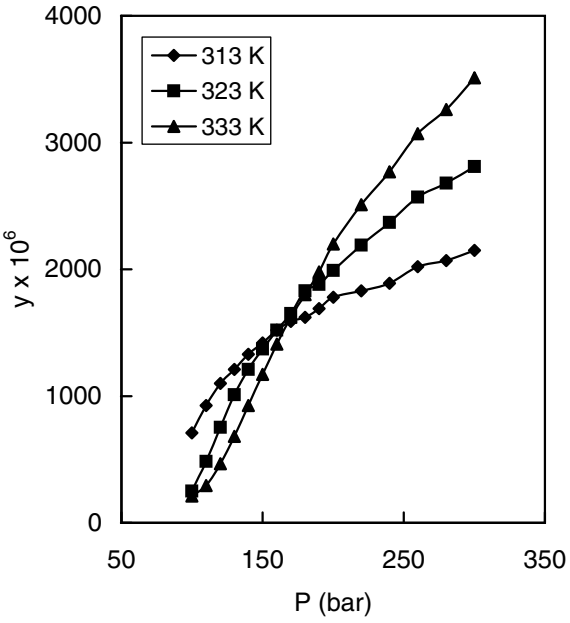
1: Obtained by digitizing the graph in the original article.
2: Solubility unit in gram of solute per liter of CO_2 at 293.15 K and 1 atm.
3: Calculated from S.
Synonyms: Glycerol tricaprylate; Glycerin trioctanoate; Trioctanoin
Source: Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106.



2,4',5-Trichlorobiphenyl ($C_{12}H_7Cl_3$; MW=257.54) **[T-58]**

T (K)	P (bar)	y x 10^6
313	100	710
	110	925
	120	1100
	130	1210
	140	1330
	150	1420
	160	1520
	170	1590
	180	1620

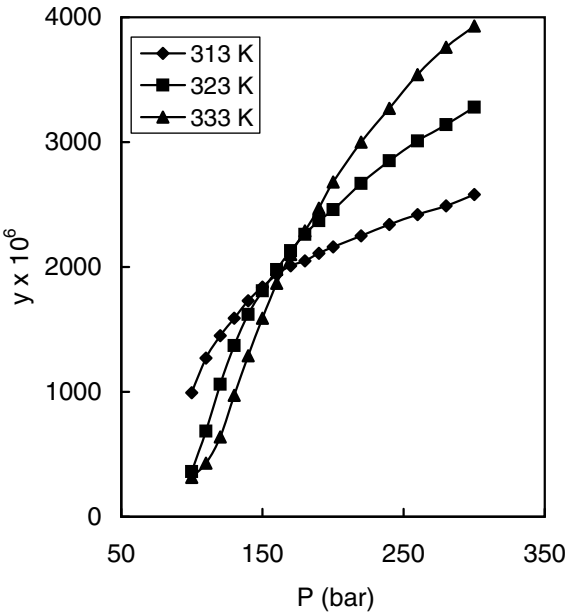
	190	1690
	200	1780
	220	1830
	240	1890
	260	2020
	280	2070
	300	2150
323	100	251
	110	484
	120	754
	130	1010
	140	1210
	150	1370
	160	1520
	170	1650
	180	1830
	190	1880
	200	1990
	220	2190
	240	2370
	260	2570
	280	2680
	300	2810
333	100	211
	110	294
	120	466
	130	682
	140	926
	150	1170
	160	1410
	170	1620
	180	1800
	190	1980
	200	2200
	220	2510
	240	2770
	260	3070
	280	3260
	300	3510



Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,4',5-Trichlorobiphenyl ($C_{12}H_7Cl_3$; MW=257.54) **[T-59]**

T (K)	P (bar)	*n*-Butane[1)] (mol%)	y x 10^6
313	100	5.0	992
	110	5.0	1270
	120	5.0	1450
	130	5.0	1590
	140	5.0	1730
	150	5.0	1840
	160	5.0	1940
	170	5.0	2010
	180	5.0	2050
	190	5.0	2110
	200	5.0	2160
	220	5.0	2250
	240	5.0	2340
	260	5.0	2420
	280	5.0	2490
	300	5.0	2580
323	100	5.0	361
	110	5.0	685
	120	5.0	1060
	130	5.0	1370
	140	5.0	1620
	150	5.0	1810
	160	5.0	1980
	170	5.0	2130
	180	5.0	2260
	190	5.0	2370
	200	5.0	2460
	220	5.0	2670
	240	5.0	2850
	260	5.0	3010
	280	5.0	3140
	300	5.0	3280
333	100	5.0	314
	110	5.0	430
	120	5.0	639
	130	5.0	971
	140	5.0	1290
	150	5.0	1590
	160	5.0	1870
	170	5.0	2100
	180	5.0	2290
	190	5.0	2470
	200	5.0	2680
	220	5.0	3000



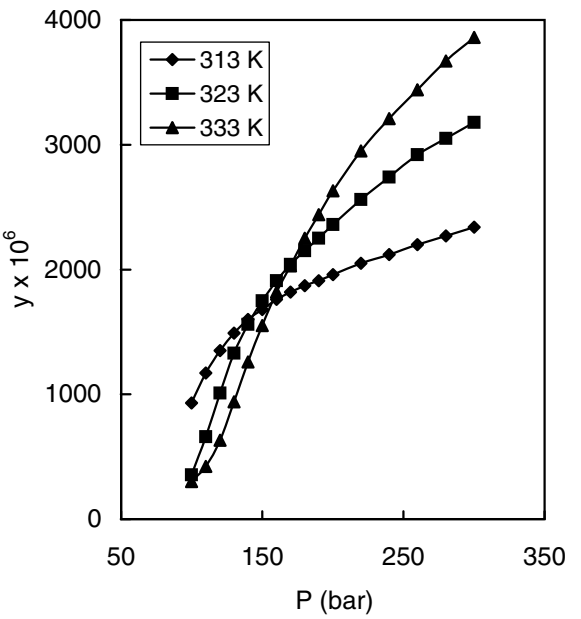
240	5.0	3270
260	5.0	3540
280	5.0	3760
300	5.0	3930

1: Cosolvent in CO_2.

Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

2,4',5-Trichlorobiphenyl ($C_{12}H_7Cl_3$; MW=257.54) **[T-60]**

T (K)	P (bar)	Methanol[1)] (mol%)	y x 10^6
313	100	5.0	930
	110	5.0	1170
	120	5.0	1350
	130	5.0	1490
	140	5.0	1600
	150	5.0	1680
	160	5.0	1760
	170	5.0	1820
	180	5.0	1870
	190	5.0	1910
	200	5.0	1960
	220	5.0	2050
	240	5.0	2120
	260	5.0	2200
	280	5.0	2270
	300	5.0	2340
323	100	5.0	354
	110	5.0	661
	120	5.0	1010
	130	5.0	1330
	140	5.0	1560
	150	5.0	1750
	160	5.0	1910
	170	5.0	2040
	180	5.0	2150
	190	5.0	2250
	200	5.0	2360
	220	5.0	2560
	240	5.0	2740
	260	5.0	2920
	280	5.0	3050
	300	5.0	3180

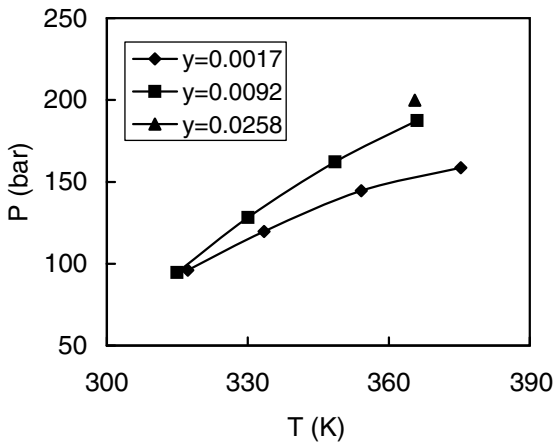


333	100	5.0	302
	110	5.0	423
	120	5.0	632
	130	5.0	941
	140	5.0	1260
	150	5.0	1550
	160	5.0	1820
	170	5.0	2030
	180	5.0	2250
	190	5.0	2440
	200	5.0	2630
	220	5.0	2950
	240	5.0	3210
	260	5.0	3440
	280	5.0	3670
	300	5.0	3860

1: Cosolvent in CO_2.
Source: Anitescu, G.; Tavlarides, L. L. *J. Supercrit. Fluids* (1999), 14(3), 197-211.

Tridecafluorooctyl 2,5-dichlorobenzoate ($C_{15}H_7Cl_2F_{13}O_2$; MW=537.10) **[T-61]**

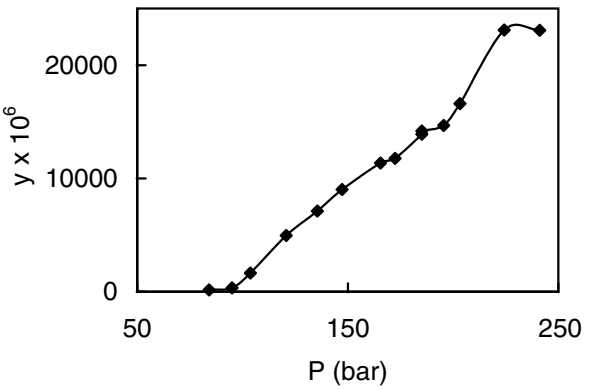
T (K)	P (bar)	y x 10^6
317.25	96.0	1700
333.45	119.7	1700
354.15	144.6	1700
375.35	158.7	1700
314.95	94.6	9200
330.05	128.2	9200
348.55	162.1	9200
366.05	187.4	9200
365.55	199.8	25800



Synonym: 2,5-Dichlorobenzoic acid 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester
Source: Shen, Z.; McHugh, M. A.; Lott, K. M.; Wright, M. E. *Fluid Phase Equil.* (2004), 216(1), 1-12.

1-Tridecanol ($C_{13}H_{28}O$; MW=200.36) **[T-62]**

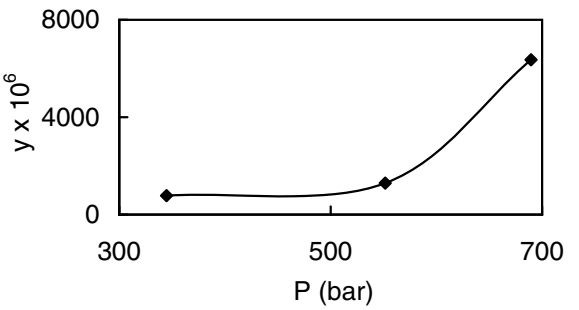
T (K)	P (bar)	y x 10^6
323.15	84.1	145
	95.1	328
	103.7	1651
	120.8	4960
	135.6	7109
	147.3	9012
	165.6	11350
	172.5	11770
	185.2	13900
	185.2	14180
	195.5	14660
	203.3	16610
	224.3	23100
	241.2	23070



Synonym: Tridecyl alcohol
Source: Artal, M. ; Pauchon, V. ; Embid, J. M.; Jose, J. *J. Chem. Eng. Data* (1998), 43(6), 983-985.

Triethylene glycol ($C_6H_{14}O_4$; MW=150.17) **[T-63]**

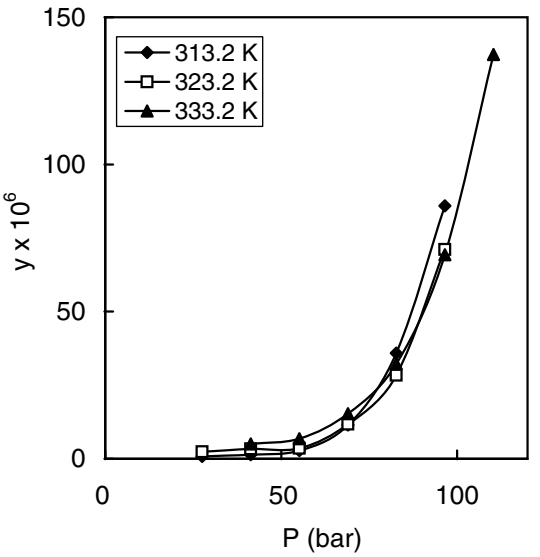
T (K)	P (bar)	y x 10^6
325.15	344.7	780
	551.6	1290
	689.5	6360



Synonyms: 2,2'-(Ethylenedioxy)diethanol; Triglycol
Source: Eissler, R; Friedrich, J. P. *J. Am. Oil Chem. Soc.* (1988), 65(5), 764-767.

Triethylene glycol ($C_6H_{14}O_4$; MW=150.17) **[T-64]**

T (K)	P (bar)	y x 10^6
313.2	27.6	0.83
	41.4	1.37
	55.2	2.72
	69.0	11.50
	82.7	35.89
	96.5	85.93
323.2	27.6	2.33
	41.4	3.37
	55.2	3.58
	69.0	11.76
	82.7	28.37
	96.5	71.09
333.2	41.4	5.04
	55.2	6.87
	69.0	15.34
	82.7	32.19
	96.5	69.30
	110.3	137.30

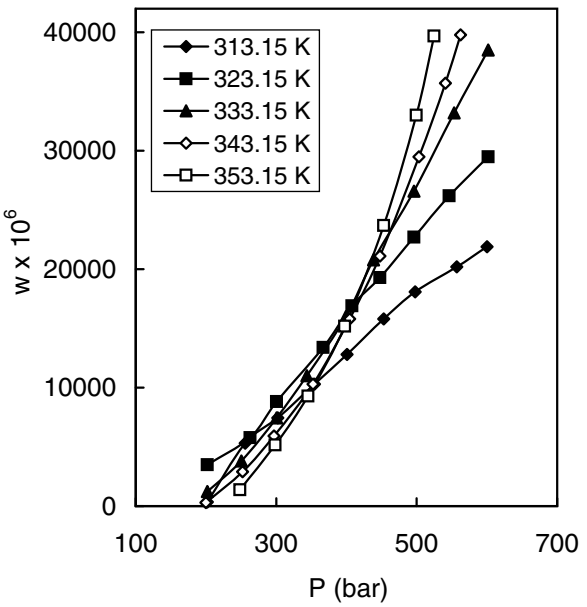


Synonyms: 2,2'-(Ethylenedioxy)diethanol; Triglycol
Source: Yonemoto, T.; Charoensombut-Amon, T.; Kobayashi, R. *Fluid Phase Equil.* (1990), 55(1-2), 217-229.

Triglycerides[1)] **[T-65]**

T (K)	P[2)] (bar)	w[2)] x 10^6
313.15	202	350
	256	5320
	302	7450
	354	10300
	401	12800
	453	15800
	498	18100
	557	20200
	600	21900
323.15	202	3500
	263	5780
	300	8820
	367	13400
	408	16900
	448	19300
	496	22700
	546	26200
	602	29500

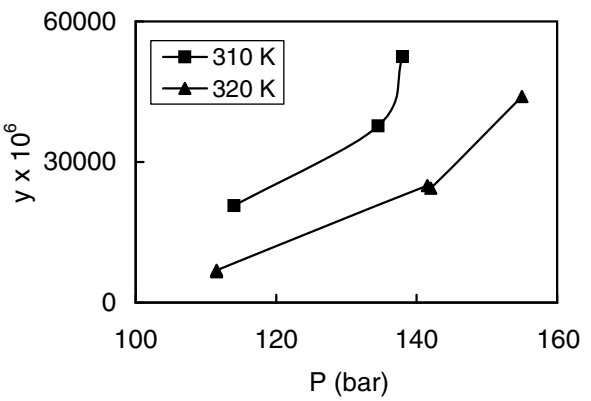
333.15	202	1220
	250	3800
	300	7450
	343	11000
	399	16000
	439	20800
	496	26600
	553	33200
	602	38500
343.15	200	304
	252	2890
	297	5930
	352	10300
	404	15800
	448	21100
	503	29500
	541	35700
	562	39800
353.15	248	1370
	299	5170
	345	9280
	397	15200
	453	23700
	500	33000
	525	39700



1: Extracted from soybean oil.
2: Obtained by digitizing the solubility isotherms in the **source**. The points are arbitrarily selected from the lines as there are no actual data points in the source graph.
Source: King, J. W. *J. Chromatogr. Sci.* (1989), 27(7), 355-364.

Trihexylamine ($C_{18}H_{39}N$; MW=269.51) **[T-66]**

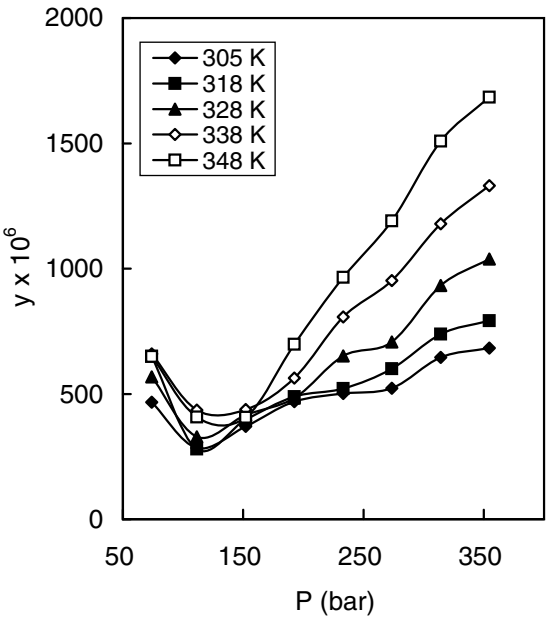
T (K)	P (bar)	y x 10^6
310	114.0	20700
	134.5	37700
	138.0	52500
320	111.5	6600
	111.5	6900
	141.5	25000
	142.0	24400
	155.0	44000



Synonym: *N,N*-Dihexyl-1-hexanamine
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

1,5,6-Trihydroxyxanthone ($C_{13}H_8O_5$; MW=244.20) **[T-67]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
305.15	74	0.86	*466*
	112	1.25	285
	152	1.74	371
	193	2.29	469
	233	2.53	502
	274	2.70	523
	314	3.41	646
	355	3.67	683
318.15	74	0.73	650
	112	0.95	280
	152	1.65	397
	193	2.19	489
	233	2.45	522
	274	2.91	600
	314	3.68	739
	355	4.05	792
328.15	74	0.56	568
	112	0.79	329
	152	1.52	416
	193	1.99	483
	233	2.87	651
	274	3.27	707
	314	4.47	933
	355	5.11	1038
338.15	74	0.59	660
	112	0.80	436
	152	1.37	438
	193	2.12	563
	233	3.32	807
	274	4.16	952
	314	5.38	1179
	355	6.28	1331
348.15	74	0.53	649
	112	0.63	408
	152	1.08	407
	193	2.36	698
	233	3.69	965



274	4.90	1190
314	6.55	1509
355	7.60	1684

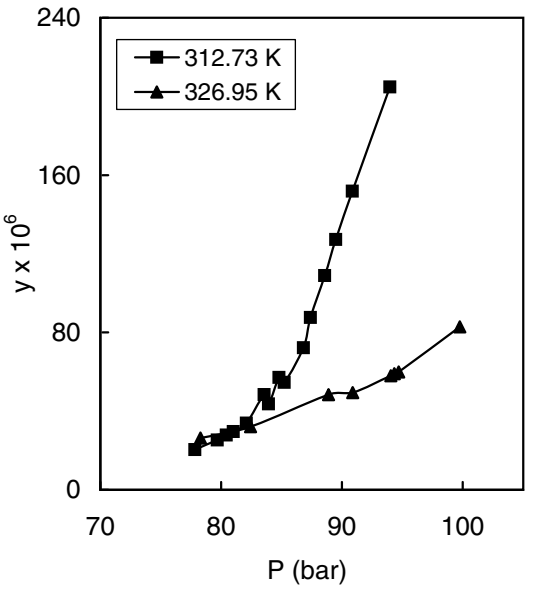
1: The y value at 305.15 K and 74 bar in the source do not agree with S and thus was re-calculated based on the S value.

Synonym: 1,5,6-Trihydroxyxanthen-9-one

Source: Ghiasvand, A. R.; Hosseini, M.; Sharghi, H.; Yamini, Y.; Shamsipur, M. *J. Chem. Eng. Data* (1999), 44(6), 1135-1138.

Triiodomethane (CHI_3; MW=393.73) **[T-68]**

T (K)	P (bar)	M x10^4 (mol/L)	$y^{1)}$ x 10^6
312.72	77.8	1.20	20.4
312.73	79.7	1.61	25.4
312.73	80.4	1.82	27.8
312.73	81.0	1.99	29.6
312.73	82.1	2.40	33.9
312.73	83.6	3.70	48.3
312.71	83.9	3.40	43.6
312.74	84.8	4.70	57.2
312.72	85.2	4.60	54.5
312.71	86.8	6.80	72.3
312.74	87.4	8.60	87.5
312.74	88.6	11.60	108.9
312.73	89.5	14.30	127.3
312.74	90.9	18.20	151.8
312.72	94.0	27.00	204.7
326.96	78.3	1.19	26.3
326.95	82.4	1.60	32.2
326.93	88.9	2.80	48.4
326.94	90.9	3.00	49.4
326.97	94.0	3.80	57.9
326.94	94.3	3.90	59.0
326.97	94.7	4.00	60.0
326.94	99.8	6.30	82.9



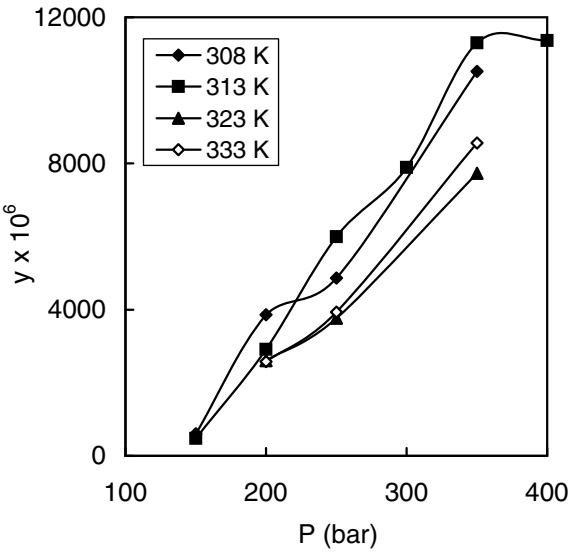
1: Calculated from M.

Synonym: Iodoform

Source: Gutkowski, K.; Japas, M. L.; Fernandez-Prini, R. *J. Chem. Thermodyn.* (1997), 29(10), 1077-1086.

Trilaurin ($C_{39}H_{74}O_6$; MW=639.00) **[T-69]**

T (K)	P (bar)	y x 10^6
308	150	609
	200	3859
	250	4867
	350	10520
313	150	481
	200	2915
	250	5994
	300	7890
	350	11300
	400	11360
323	200	2608
	250	3767
	350	7736
333	200	2582
	250	3935
	350	8557

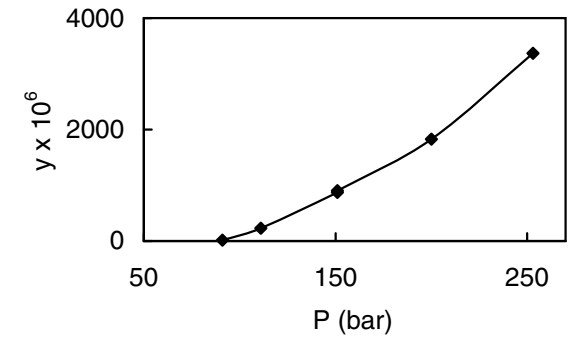


Synonyms: Glycerin tridodexanoate; Glycerol trilaurate; Tridodecanoin

Source: Ashour, I.; Hammam, H. *J. Supercrit. Fluids* (1993), 6(1), 3-8. (Also, see the graph in Hammam, H. *J. Supercrit. Fluids* (1992), 5(2), 101-106.)

Trilaurin ($C_{39}H_{74}O_6$; MW=639.00) **[T-70]**

T (K)	P (bar)	y x 10^6
313	91	13
	111	228
	151	874
	151	902
	200	1830
	253	3370



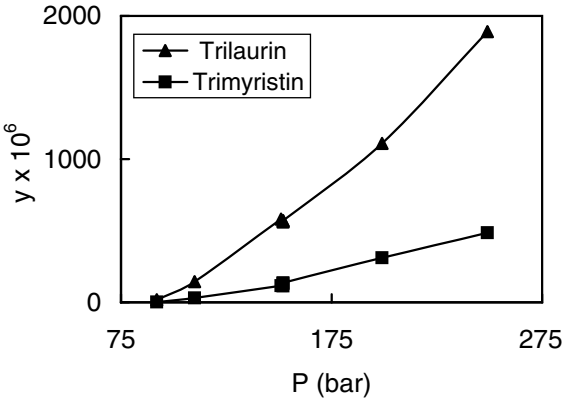
Synonyms: Glycerin tridodecanoate; Glycerol trilaurate; Tridodecanoin

Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.

Trilaurin (1) + Trimyristin (2) Mixture **[T-71]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
313	92	19	1.8
	110	144	29.9
	151	581	116.0
	152	560	113.0
	152	567	131.0
	152	572	136.0
	199	1110	311.0
	249	1890	486.0

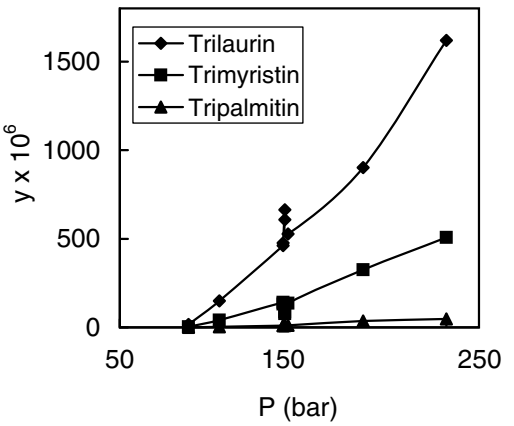
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



Trilaurin (1) + Trimyristin (2) + Tripalmitin (3) Mixture **[T-72]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$	$y_3 \times 10^6$
313	92	17	4.0	0.20
	111	149	41.2	2.78
	150	462	141.0	10.30
	150	476	131.0	10.40
	151	663	87.4	11.10
	151	608	77.5	9.53
	153	528	136.0	11.90
	199	902	325.0	35.50
	250	1620	507.0	47.50

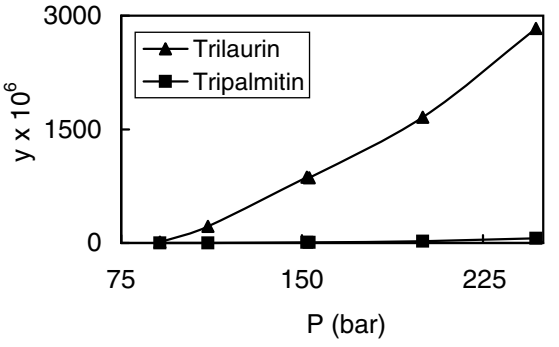
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



Trilaurin (1) + Tripalmitin (2) Mixture **[T-73]**

T (K)	P (bar)	$y_1 \times 10^6$	$y_2 \times 10^6$
313	91	13	0.05
	111	218	0.52
	152	868	6.09
	153	859	6.26
	200	1660	24.30
	247	2830	62.00

Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



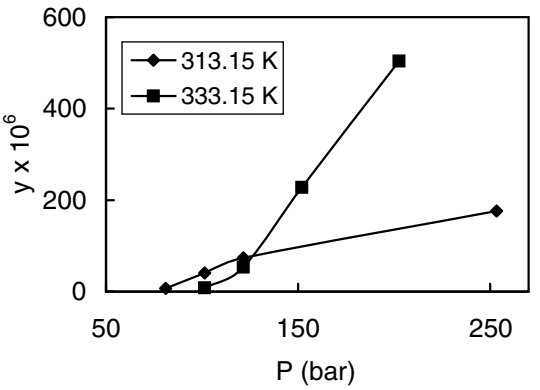
Trilinolein ($C_{57}H_{98}O_6$; MW=879.38) **[T-74]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	81.1	0.04	6.8
	101.3	0.52	40.5
	121.6	1.07	73.9
	253.3	3.10	176.0
333.15	101.3	0.05	8.3
	121.6	0.48	53.2
	152.0	2.80	228.0
604.	202.7	7.35	

1: Calculated from S.

Synonyms: Glycerin trilinoleate; Glycerol trilinoleate

Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

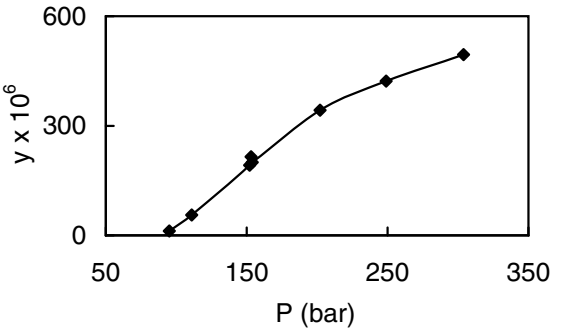


Trimyristin ($C_{45}H_{86}O_6$; MW=723.16) **[T-75]**

T (K)	P (bar)	y x 10^6
313	95	12.3
	111	55.5
	152	192.0
	153	215.0
	154	200.0
	202	343.0
	249	422.0
	304	495.0

Synonyms: Glycerin trimyristate; Glycerol tritetradecanoate

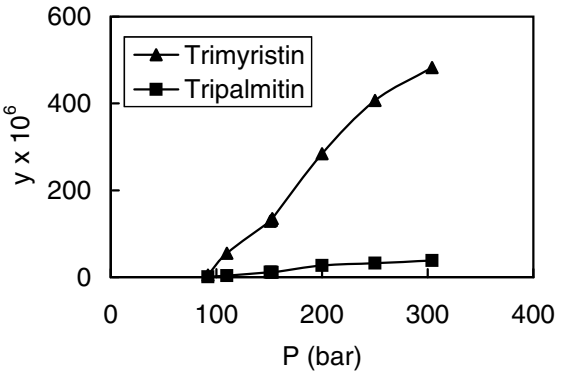
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



Trimyristin (1) + Tripalmitin (2) Mixture **[T-76]**

T (K)	P (bar)	y_1 x 10^6	y_2 x 10^6
313	92	5.0	0.35
	110	55.0	3.20
	151	129.0	11.30
	152	131.0	11.30
	153	135.0	10.50
	200	284.0	26.90
	250	407.0	32.20
	304	483.0	38.50

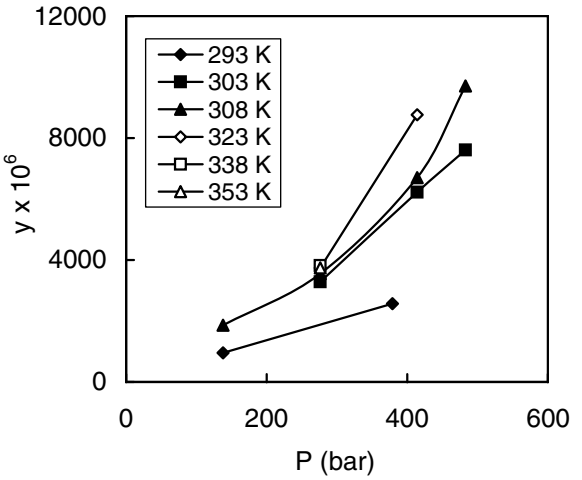
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



Trinitrotoluene ($C_7H_5N_3O_6$; MW=227.13) **[T-77]**

T (K)	P (bar)	W (g/kg)	$y^{1)} \times 10^6$
293	138	4.9	950
	379	13.3	2570
303	276	17.0	3280
	414	32.3	6220
	483	39.6	7610
308	138	9.6	1860
	276	18.4	3550
	414	34.8	6700
	483	50.6	9710
323	276	19.4	3740
	414	45.6	8760
338	276	19.8	3820
353	276	19.4	3740

1: Calculated from W.



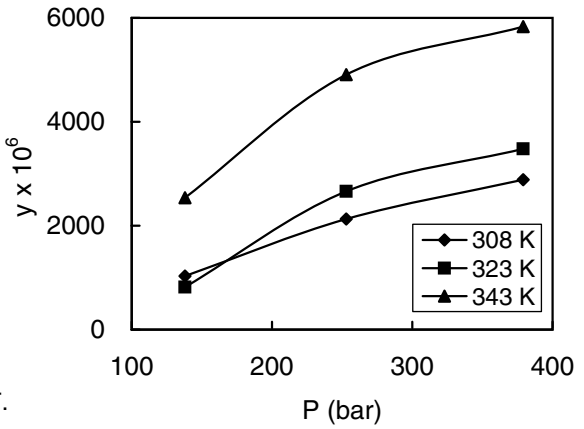
Synonyms: 2,4,6-Trinitrotoluene; TNT

Source: Agrawal, P. M.; Rice, B. M.; Sorescu, D. C.; Thompson, D. L. *Fluid Phase Equil.* (2001), 187-188, 139-153.

Trinitrotoluene ($C_7H_5N_3O_6$; MW=227.13) **[T-78]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
308.15	138	4.27	1031
	253	9.97	2130
	379	14.43	2886
323.15	138	2.84	820
	253	11.55	2660
	379	16.51	3481
343.15	138	5.93	2539
	253	18.92	4909
	379	25.64	5833

1: Calculated form S.

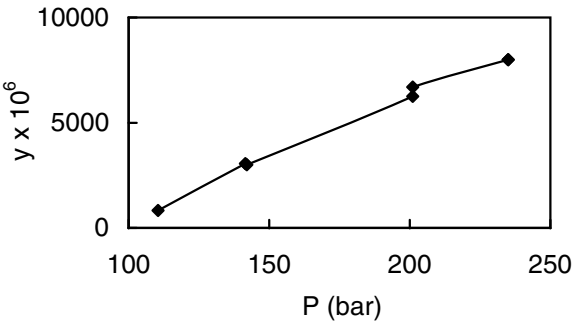


Synonyms: 2,4,6-Trinitrotoluene; TNT

Source: Ashraf-Khorassani, M.; Taylor, L. T. *J. Chem. Eng. Data* (1999), 44(6), 1254-1258.

Trioctylamine ($C_{24}H_{51}N$; MW=353.67) **[T-79]**

T (K)	P (bar)	y x 10^6
320	110.5	832
	141.5	3060
	142.0	3000
	201.0	6250
	201.0	6690
	235.0	7990
	235.0	8000

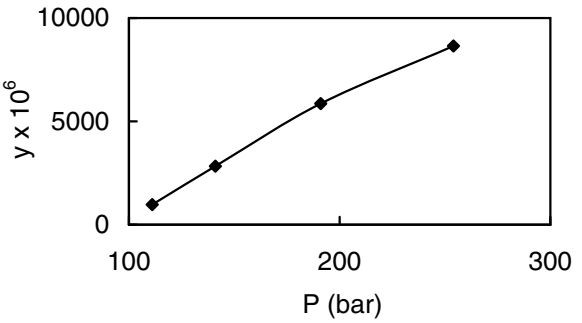


Synonyms: Tricaprylylamine; Tri-*n*-octylamine

Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Trioctylphosphine ($C_{24}H_{51}P$; MW=370.64) **[T-80]**

T (K)	P (bar)	y x 10^6
320	111	970
	141	2830
	191	5860
	254	8650

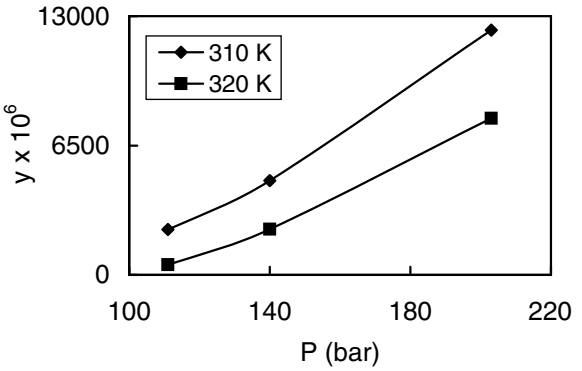


Synonym: Tri-*n*-octylphosphine

Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Trioctylphosphine oxide ($C_{24}H_{51}OP$; MW=386.63) **[T-81]**

T (K)	P (bar)	y x 10^6
310	111	2280
	140	4740
	203	12300
320	111	510
	140	2290
	203	7870

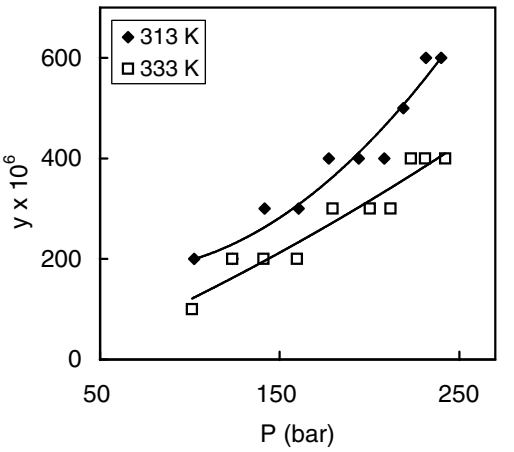


Synonym: Tri-*n*-octylphosphine oxide

Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.

Triolein ($C_{57}H_{104}O_6$; MW=885.43) **[T-82]**

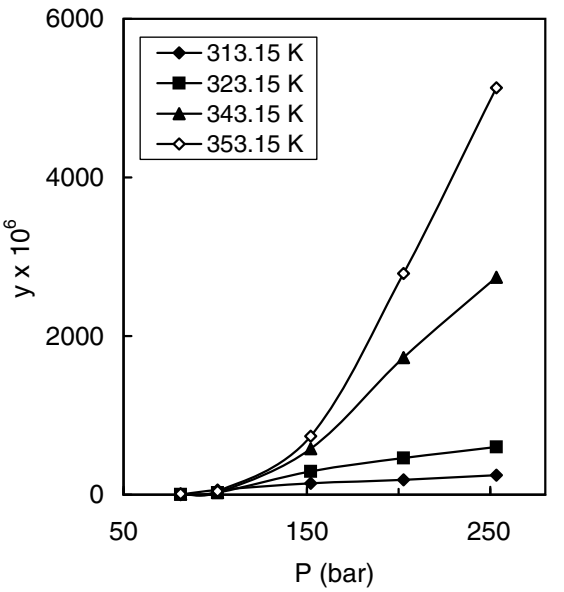
T (K)	P (bar)	y x 10^6
313	102.4	200
	123.7	200
	141.6	300
	160.5	300
	177.4	400
	194.0	400
	208.3	400
	218.8	500
	231.4	600
	239.9	600
333	101.2	100
	123.6	200
	141.0	200
	159.6	200
	179.5	300
	200.2	300
	211.7	300
	223.0	400
	230.9	400
	242.1	400



Synonyms: Glycerin trioleate; Glycerol triolein
Source: Chen, C.-C.; Chang, C.-M. J.; Yang, P.-W.; *Fluid Phase Equil.* (2000), 175(1-2), 107-115.

Triolein ($C_{57}H_{104}O_6$; MW=885.43) **[T-83]**

T (K)	P (bar)	S (g/L)	y[1)] x 10^6
313.15	81.1	0.01	2
	101.3	0.78	60
	152.0	2.27	144
	202.7	3.19	188
	253.3	4.35	245
323.15	81.1	0.01	2
	101.3	0.20	24
	152.0	4.16	292
	202.7	7.37	464
	253.3	10.17	602
343.15	81.1	0.02	6
	101.3	0.14	27
	152.0	6.06	580
	202.7	23.25	1730
	253.3	41.05	2740
353.15	81.1	0.04	12
	101.3	0.21	46
	152.0	6.53	739
	202.7	33.91	2790
	253.3	71.86	5130

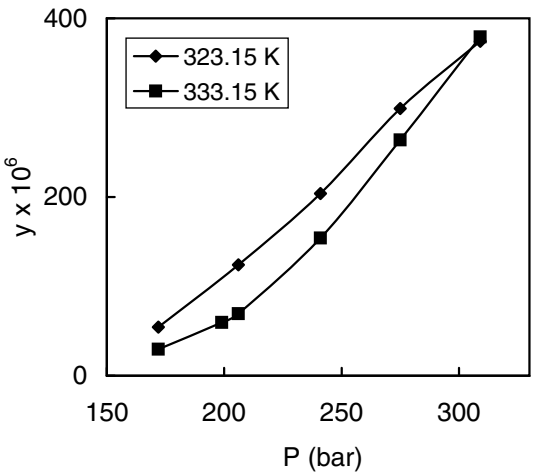


1: Calculated from S.
Synonyms: Glycerin trioleate; Glycerol triolein
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

Triolein ($C_{57}H_{104}O_6$; MW=885.43) **[T-84]**

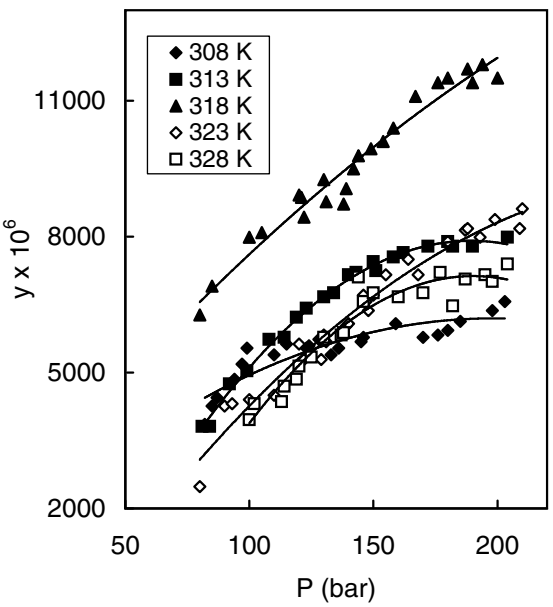
T (K)	P (bar)	w (wt%)	$y^{1)} \times 10^6$
323.15	172	0.11	55
	206	0.25	124
	241	0.41	204
	275	0.60	299
	309	0.75	374
333.15	172	0.06	30
	199	0.12	60
	206	0.14	69
	241	0.31	154
	275	0.53	264
	309	0.76	379

1: Calculated from w.
Synonyms: Glycerin trioleate; Glycerol triolein
Source: Nilsson, W. B.; Gauglitz, E. J. Jr.; Hudson, J. K.*J. Am. Oil Chem. Soc.* (1991), 68(2), 87-91.



Triolein ($C_{57}H_{104}O_6$; MW=885.43) **[T-85]**

T (K)	P (bar)	W (g/kg CO_2)	$y^{1)} \times 10^6$
308	82	78	3860
	85	86	4260
	87	90	4450
	94	98	4850
	97	105	5190
	99	112	5540
	110	109	5390
	115	114	5630
	123	112	5540
	124	113	5590
	128	116	5730
	133	109	5390
	136	112	5540
	145	115	5680
	146	117	5780
	159	123	6080
	170	117	5780
	176	118	5830
	180	120	5930
	185	124	6130
	198	129	6370
	203	133	6570



313	81	77	3810
	84	77	3810
	92	96	4750
	99	102	5040
	108	116	5730
	114	117	5780
	119	126	6220
	123	130	6420
	130	135	6670
	134	137	6760
	140	145	7160
	143	146	7210
	150	151	7450
	151	147	7250
	158	153	7550
	162	155	7650
	172	158	7790
	180	160	7890
	182	158	7790
	190	158	7790
	204	162	7990
318	80	127	6270
	85	140	6910
	100	162	7990
	105	164	8090
	120	181	8920
	121	180	8870
	122	171	8430
	130	188	9260
	131	178	8770
	138	177	8720
	139	184	9060
	142	193	9500
	144	199	9790
	149	202	9940
	154	206	10100
	158	212	10400
	167	225	11100
	176	233	11400
	180	234	11500
	188	239	11700
	190	231	11400
	194	241	11800
	200	234	11500

323	80	50	2480
	90	86	4260
	93	87	4310
	100	89	4400
	110	91	4500
	120	114	5630
	122	107	5290
	129	107	5290
	130	118	5830
	131	115	5680
	139	122	6030
	140	123	6080
	146	136	6710
	147	133	6570
	148	129	6370
	150	136	6710
	155	145	7160
	164	152	7500
	168	145	7160
	180	160	7890
	187	165	8140
	188	166	8180
	193	162	7990
	199	170	8380
	209	166	8180
	210	175	8620
328	100	80	3960
	102	87	4310
	113	88	4360
	114	95	4700
	119	98	4850
	120	104	5140
	125	108	5340
	130	117	5780
	137	118	5830
	138	119	5880
	144	144	7110
	146	133	6570
	150	137	6760
	160	135	6670

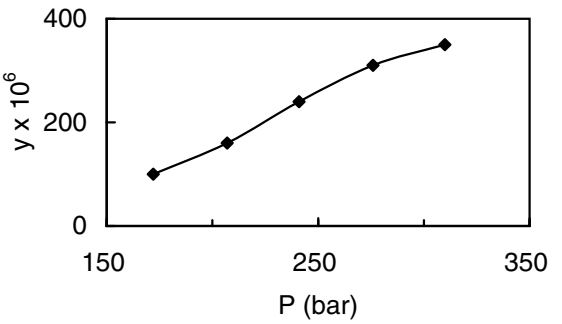
170	137	6760
177	146	7210
182	131	6470
187	143	7060
195	145	7160
198	142	7010
204	150	7400

1: Calculated from W.
Synonyms: Glycerin trioleate; Glycerol triolein
Source: Ribeiro, M. A.; Bernardo-Gil, M. G. *J. Chem. Eng. Data* (1995), 40(6), 1188-1192.

Triolein ($C_{57}H_{104}O_6$; MW=885.43) **[T-86]**

T (K)	P (bar)	W (g/kg)	$y^{1)} \times 10^6$
313.15	172	2.1	100
	207	3.3	160
	241	4.9	240
	276	6.2	310
	310	7.0	350

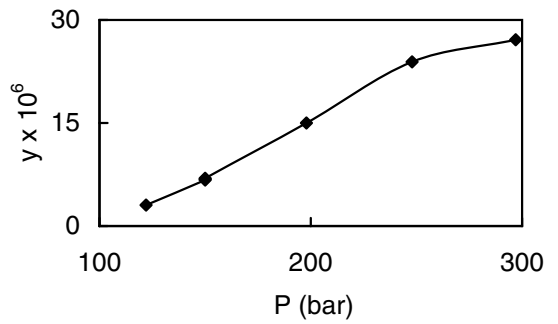
1: Calculated from W.
Synonyms: Glycerin trioleate; Glycerol triolein
Source: Nilsson, W. B.; Hudson, J. K. *J. Am. Oil Chem. Soc.* (1993), 70(8), 749-754.



Tripalmitin ($C_{51}H_{98}O_6$; MW=807.32) **[T-87]**

T (K)	P (bar)	y x 10^6
313	122	3.03
	150	6.71
	150	6.81
	150	6.95
	198	15.00
	248	23.90
	297	27.10

Synonyms: Glycerin tripalmitate; Glycerol trihexadecanoate
Source: Bamberger, T.; Erickson, J. C.; Cooney, C. L.; Kumar, S. K. *J. Chem. Eng. Data* (1988), 33(3), 327-333.



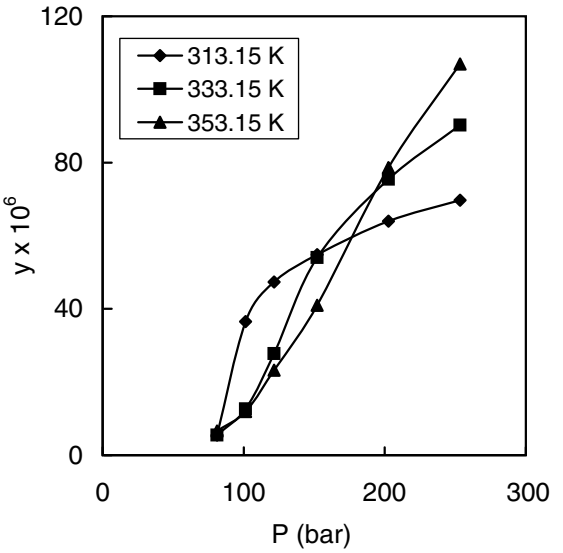
Tripalmitin ($C_{51}H_{98}O_6$; MW=807.32) **[T-88]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	81.1	0.03	5.5
	101.3	0.43	36.5
	121.6	0.63	47.4
	152.0	0.79	54.8
	202.7	0.99	64.0
	253.3	1.13	69.7
333.15	81.1	0.02	5.5
	101.3	0.07	12.7
	121.6	0.23	27.8
	152.0	0.61	54.1
	202.7	1.01	75.4
	253.3	1.31	90.2
353.15	81.1	0.02	6.6
	101.3	0.05	12.0
	121.6	0.13	23.2
	152.0	0.33	41.0
	202.7	0.87	78.6
	253.3	1.36	107.0

1: Calculated from S.

Synonyms: Glycerin tripalmitate; Glycerol trihexadecanoate

Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

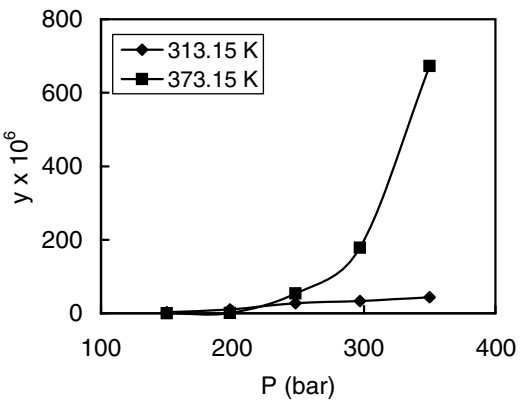


Tripalmitin ($C_{51}H_{98}O_6$; MW=807.32) **[T-89]**

T (K)	P (bar)	$y \times 10^6$
313.15	150	2.71
	198	10.50
	248	27.60
	297	33.50
	350	43.50
373.15	150	0.01
	198	1.06
	248	53.70
	297	178.0
	350	673.0

Synonyms: Glycerin tripalmitate; Glycerol trihexadecanoate

Source: Miller, D. J.; Hawthorne, S. B. *Anal. Chem.* (1995), 67(2), 273-279.



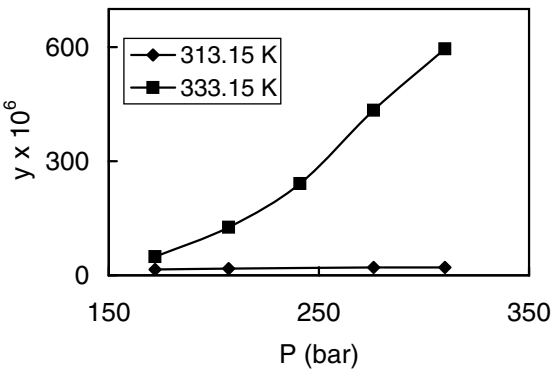
Tripalmitin ($C_{51}H_{98}O_6$; MW=807.32) **[T-90]**

T (K)	P (bar)	W (g/kg)	$y^{1)} \times 10^6$
313.15	172	0.28	15
	207	0.32	17
	276	0.38	21
	310	0.38	21
333.15	172	0.90	49
	207	2.30	126
	241	4.40	241
	276	7.90	434
	310	10.80	595

1: Calculated from W.

Synonyms: Glycerin tripalmitate; Glycerol trihexadecanoate

Source: Nilsson, W. B.; Hudson, J. K. *J. Am. Oil Chem. Soc.* (1993), 70(8), 749-754.

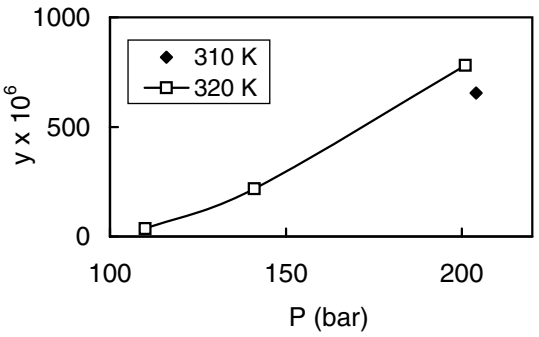


Triphenylamine ($C_{18}H_{15}N$; MW=245.32) **[T-91]**

T (K)	P (bar)	y x 10^6
310	204	655
320	110	36
	141	218
	201	781

Synonym: *N*,*N*-Diphenylbenzenamine

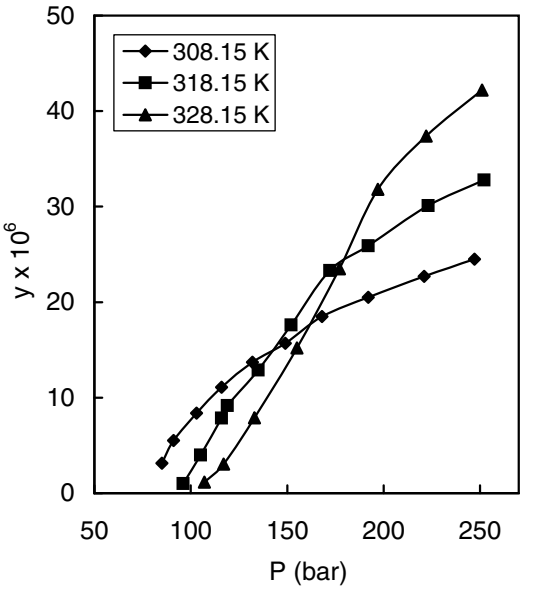
Source: Schmitt, W. J.; Reid, R. C. *Chem. Eng. Comm.* (1988), 64, 155-176.



Triphenylene ($C_{18}H_{12}$; MW=228.29) **[T-92]**

T (K)	P (bar)	y x 10^6
308.15	85	3.14
	91	5.50
	103	8.38
	116	11.10
	132	13.70
	149	15.70
	168	18.50
	192	20.50
	221	22.70
	247	24.50

318.15	96	1.01
	105	3.98
	116	7.86
	119	9.18
	135	12.90
	152	17.60
	172	23.30
	192	25.90
	223	30.10
	252	32.80
328.15	107	1.15
	117	3.05
	133	7.89
	155	15.20
	177	23.50
	197	31.80
	222	37.40
	251	42.20

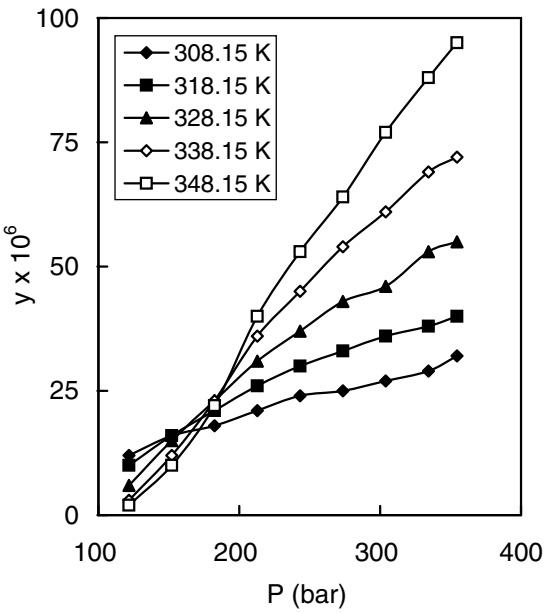


Synonyms: 9,10-Benzophenanthrene: 1,2,3,4-Dibenznaphthalene

Source: Barna, L.; Blanchard, J.-M.; Rauzy, E.; Berro, C. *J. Chem. Eng. Data* (1996), 41(6), 1466-1469.

Triphenylene ($C_{18}H_{12}$; MW=228.29) **[T-93]**

T (K)	P (bar)	y x 10^6
308.15	121.6	12
	152.0	16
	182.4	18
	212.8	21
	243.2	24
	273.6	25
	304.0	27
	334.4	29
	354.6	32
318.15	121.6	10
	152.0	16
	182.4	21
	212.8	26
	243.2	30
	273.6	33
	304.0	36
	334.4	38
	354.6	40



328.15	121.6	6
	152.0	15
	182.4	23
	212.8	31
	243.2	37
	273.6	43
	304.0	46
	334.4	53
	354.6	55
338.15	121.6	3
	152.0	12
	182.4	23
	212.8	36
	243.2	45
	273.6	54
	304.0	61
	334.4	69
	354.6	72
348.15	121.6	2
	152.0	10
	182.4	22
	212.8	40
	243.2	53
	273.6	64
	304.0	77
	334.4	88
	354.6	95

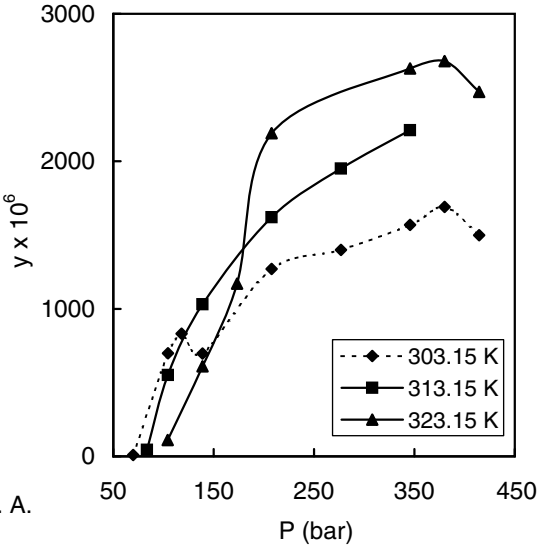
Synonyms: 9,10-Benzophenanthrene: 1,2,3,4-Dibenznaphthalene

Source: Yamini, Y.; Bahramifar, N., *J. Chem. Eng. Data* (2000), 45(1), 53-56.

Triphenylmethane ($C_{19}H_{16}$; MW=244.33) **[T-94]**

T(K)	P(bar)	y x 10^6
303.15	69.9	9.4
	104.4	699.0
	118.1	831.0
	138.8	697.0
	207.7	1270.0
	276.7	1400.0
	345.6	1570.0
	380.1	1690.0
	414.5	1500.0

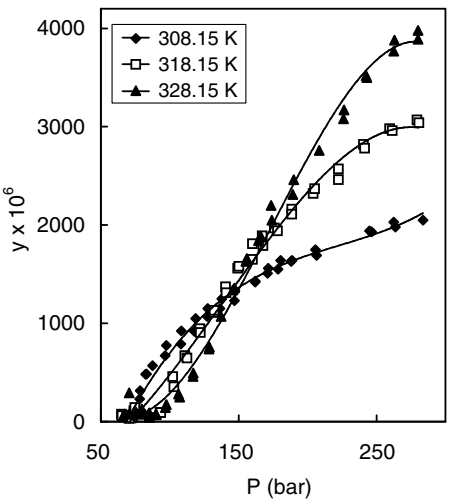
313.15	83.7	44.4
	104.4	551.0
	138.8	1030.0
	207.8	1620.0
	276.7	1950.0
	345.6	2210.0
323.15	104.3	111.0
	138.8	610.0
	173.3	1170.0
	207.8	2190.0
	345.6	2630.0
	380.1	2680.0
	414.5	2470.0



Synonym: 1,1',1''-Methylidynetrisbenzene
Source: Johnston, K. P.; Ziger, D. H.; Eckert, C. A. *Ind. Eng. Chem. Fund.*(1982), 21(3), 191-197.

Triphenylmethane ($C_{19}H_{16}$; MW=244.33) **[T-95]**

T (K)	P (bar)	y x 10^6
308.15	70.5	39
	70.8	55
	73.7	36
	74.7	68
	75.0	61
	75.3	37
	78.1	230
	78.5	315
	82.5	483
	83.1	485
	87.5	568
	96.6	671
	97.5	776
	108.1	789
	108.4	922
	117.9	918
	118.8	1050
	127.0	1070
	127.5	1150
	136.4	1150
	137.8	1250
	147.0	1230
	147.3	1330
	162.0	1430
	162.0	1420
	170.9	1510
	171.4	1560
	178.5	1550
	180.5	1640



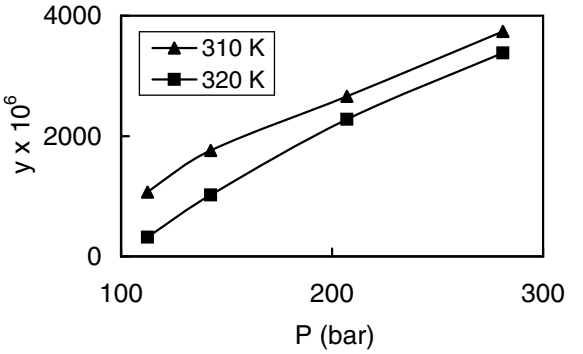
	188.0	1630
	188.8	1640
	205.6	1750
	206.6	1690
	244.9	1940
	246.5	1930
	262.5	2030
	263.7	1980
	283.7	2050
318.15	65.0	75
	65.3	61
	68.9	62
	70.5	32
	74.0	110
	74.7	143
	79.1	73
	79.4	46
	85.3	42
	93.0	91
	93.6	91
	102.2	457
	103.1	354
	111.0	670
	112.5	647
	121.9	945
	122.2	906
	132.0	1110
	132.3	1130
	140.5	1370
	140.8	1310
	149.4	1560
	150.2	1580
	160.1	1810
	160.1	1650
	167.2	1890
	167.7	1790
	175.9	1970
	178.2	1940
	188.6	2160
	188.6	2110
	204.1	2320
	205.1	2370
	222.5	2460
	222.5	2570
	240.6	2820
	241.4	2780
	259.5	2980
	261.4	2960
	279.4	3070
	280.8	3040

328.15	66.3	48
	67.0	76
	70.2	74
	70.5	293
	75.3	85
	75.6	98
	79.7	128
	79.7	75
	85.0	90
	85.0	55
	89.9	75
	90.2	70
	96.9	142
	97.5	174
	106.4	281
	107.2	250
	116.8	460
	117.1	493
	128.7	758
	128.4	738
	137.2	1070
	145.7	1340
	147.0	1360
	155.3	1630
	155.9	1660
	164.3	1840
	165.9	1890
	173.5	2200
	174.0	2050
	189.3	2310
	189.9	2460
	208.5	2760
	226.1	3080
	226.4	3170
	242.5	3520
	243.0	3500
	262.5	3770
	263.1	3880
	280.2	3890
	280.2	3980

Synonym: 1,1',1''-Methylidynetrisbenzene
Source: Pauchon, V.; Cisse, Z.; Chavret, M.; Jose, J. *J. Supercrit. Fluids* (2004), 32 (1-3), 115-121.

Triphenylphosphate ($C_{18}H_{15}O_4P$; MW 326 28) **[T-96]**

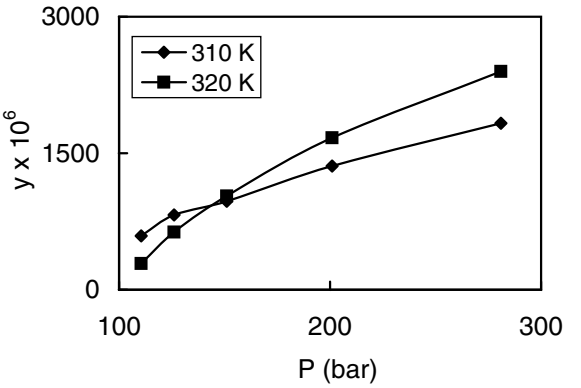
T (K)	P (bar)	y x 10^6
310	112.5	1070
	142.5	1760
	207.0	2660
	281.0	3740
320	112.5	320
	142.5	1020
	207.0	2280
	281.0	3380



Synonym: Phosphoric acid triphenyl ester
Source: Schmitt, W. J.; Reid, R. C.
Chem. Eng. Comm. (1988), 64, 155-176.

Triphenylphosphine ($C_{18}H_{15}P$; MW=262.29) **[T-97]**

T (K)	P (bar)	y x 10^6
310	110.5	593
	126.0	823
	151.0	972
	201.0	1360
	281.0	1830
320	110.5	287
	126.0	633
	151.0	1030
	201.0	1670
	281.0	2400

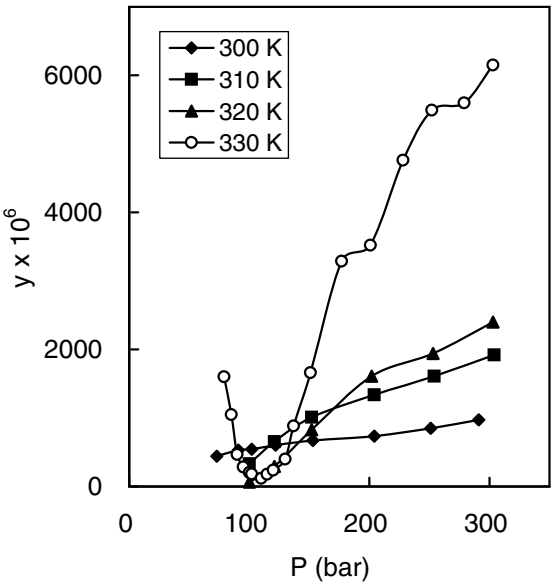


Synonym: Triphenylphosphorus
Source: Schmitt, W. J.; Reid, R. C.
Chem. Eng. Comm. (1988), 64, 155-176.

Triphenylphosphine ($C_{18}H_{15}P$; MW=262.29) **[T-98]**

T (K)	P (bar)	M x 10^2 (mol/L)	y[1)] x 10^6
300	73	0.728	442
	91	0.947	531
	102	0.997	544
	122	1.150	605
	153	1.330	672
	204	1.520	735
	251	1.810	849
	291	2.120	974
310	100	0.516	330
	121	1.120	653
	152	1.860	1010
	204	2.620	1340
	254	3.290	1610
	304	4.040	1920

320	100	0.064	62
	121	0.426	292
	152	1.380	827
	202	2.960	1610
	253	3.770	1940
	303	4.840	2400
330	79	0.712	1600
	85	0.534	1050
	90	0.266	469
	95	0.181	285
	100	0.146	205
	102	0.137	183
	110	0.107	119
	115	0.179	179
	120	0.261	238
	130	0.503	401
	137	1.180	882
	151	2.420	1660
	177	5.300	3290
	201	6.000	3520
	228	8.480	4760
	252	10.100	5490
	279	10.600	5600
	303	11.900	6150

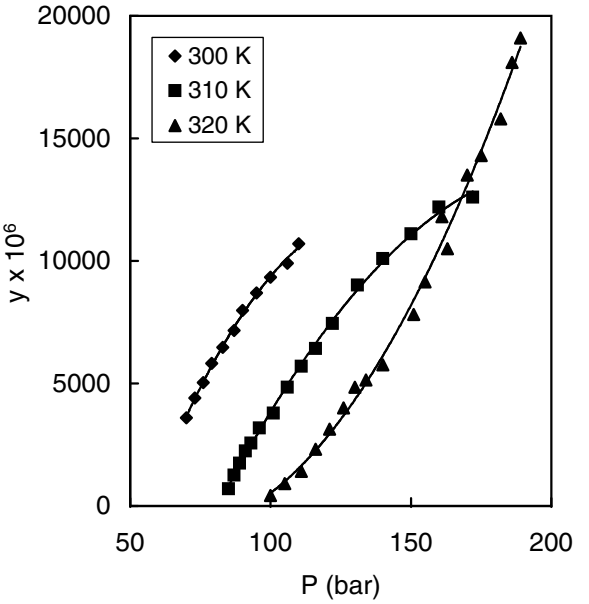


1: Calculated from M.
Synonym: Triphenylphosphorus
Source: Wagner, K.-D.; Dahmen, N.; Dinjus, E., *J. Chem. Eng. Data* (2000), 45(4), 672-677.

Tris(*p*-fluorophenyl)phosphine ($C_{18}H_{12}F_3P$; MW=316.26) **[T-99]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
300	70	5.80	3600
	73	7.30	4410
	76	8.50	5030
	79	10.00	5820
	83	11.30	6470
	87	12.70	7160
	90	14.30	7980
	95	15.80	8690
	100	17.20	9340
	106	18.50	9910
	110	20.20	10700
310	85	0.85	706
	87	1.65	1260
	89	2.41	1740
	91	3.23	2250
	93	3.77	2560

	96	4.84	3180
	101	6.00	3790
	106	7.90	4850
	111	9.50	5700
	116	10.90	6420
	122	12.90	7450
	131	16.00	9010
	140	18.30	10100
	150	20.50	11100
	160	23.00	12200
	172	24.10	12600
320	100	0.44	425
	105	1.09	916
	111	1.87	1410
	116	3.25	2320
	121	4.57	3130
	126	6.05	4000
	130	7.48	4840
	134	8.10	5140
	140	9.30	5760
	151	13.10	7820
	155	15.50	9140
	161	20.30	11800
	163	18.20	10500
	170	23.80	13500
	175	25.50	14300
	182	28.60	15800
	186	32.90	18100
	189	35.00	19100



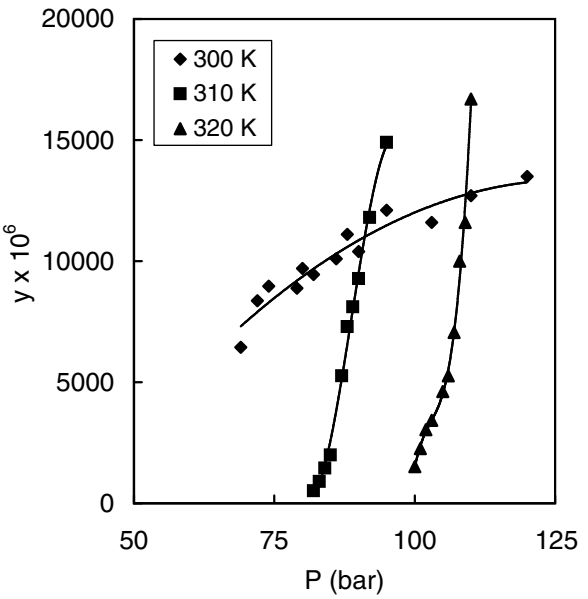
1: Calculated from M.

Synonym: Tris(4-fluorophenyl)phosphine

Source: Wagner, K.-D.; Dahmen, N.; Dinjus, E., *J. Chem. Eng. Data* (2000), 45(4), 672-677.

Tris(pentafluorophenyl)phosphine ($C_{18}F_{15}P$; MW=532.14) **[T-100]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
300	69	10.30	6440
	72	13.80	8370
	74	15.00	8970
	79	15.30	8880
	80	16.80	9700
	82	16.50	9450
	86	17.90	10100
	88	19.90	11100
	90	18.70	10400
	95	22.00	12100
	103	21.50	11600
	110	24.00	12700
	120	25.90	13500
310	82	0.47	512
	83	0.92	904
	84	1.64	1460
	85	2.40	1990
	87	6.95	5270
	88	9.93	7300
	89	11.30	8110
	90	13.20	9280
	92	17.40	11800
	95	22.80	14900
320	100	1.58	1520
	101	2.42	2260
	102	3.36	3040
	103	3.90	3430
	105	5.52	4620
	106	6.42	5260
	107	8.80	7050
	108	12.80	10000
	109	15.00	11600
	110	22.10	16700

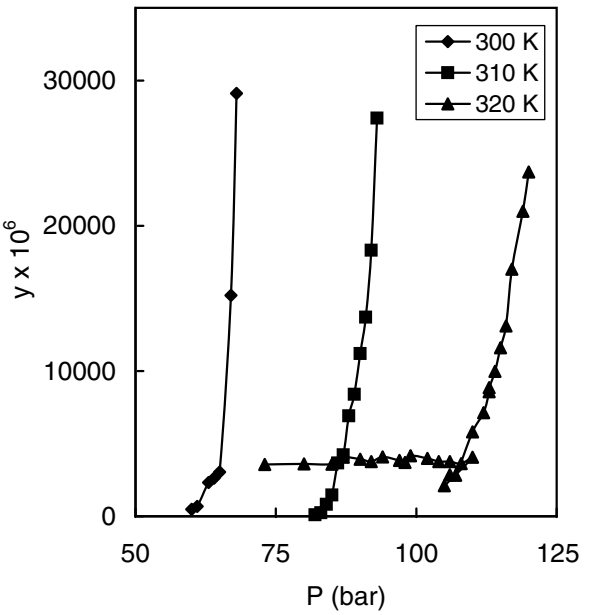


1: Calculated from M.

Source: Wagner, K.-D.; Dahmen, N.; Dinjus, E., *J. Chem. Eng. Data* (2000), 45(4), 672-677.

Tris(*p*-trifluoromethylphenyl)phosphine ($C_{21}H_{12}F_9P$; MW=466.29) **[T-101]**

T (K)	P (bar)	M x 10^2 (mol/L)	$y^{1)}$ x 10^6
300	60	0.20	480
	61	0.30	690
	63	1.10	2330
	64	1.30	2620
	65	1.60	3050
	67	9.30	15200
	68	47.00	29100
310	82	0.10	110
	83	0.25	250
	84	0.92	820
	85	1.76	1460
	86	4.66	3670
	87	5.57	4220
	88	9.40	6910
	89	11.70	8390
	90	16.00	11200
	91	19.90	13700
	92	27.10	18310
	93	41.40	27400
320	73	1.57	3570
	80	1.93	3610
	85	2.22	3590
	87	2.67	4060
	90	2.85	3930
	92	2.93	3760
	94	3.42	4080
	97	3.60	3840
	98	3.60	3710
	99	4.20	4170
	102	4.40	3980
	104	4.40	3770
	106	4.60	3770
	108	4.60	3630
	110	5.30	4060
	105	2.50	2100
	106	3.50	2870
	107	3.50	2820
	110	7.60	5800
	112	9.60	7130
	113	11.70	8570

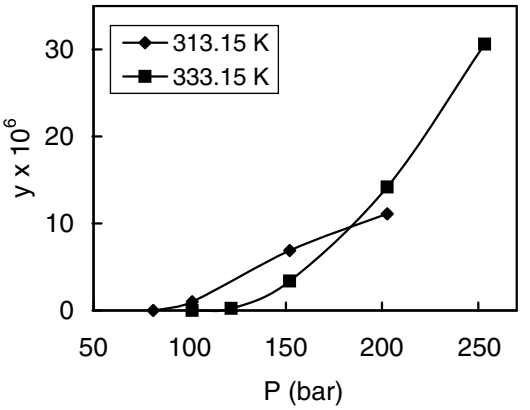


113	12.10	8860
114	13.80	9980
115	16.20	11600
116	18.60	13100
117	24.40	17000
119	30.70	21000
120	35.10	23700

1: Calculated from M.
Source: Wagner, K.-D.; Dahmen, N.; Dinjus, E., *J. Chem. Eng. Data* (2000), 45(4), 672-677.

Tristearin ($C_{57}H_{110}O_6$; MW=891.48) **[T-102]**

T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
313.15	81.1	0.000	0.00
	101.3	0.013	1.00
	152.0	0.110	6.90
	202.7	0.190	11.10
333.15	101.3	0.000	0.00
	121.6	0.002	0.22
	152.0	0.042	3.37
	202.7	0.210	14.20
	253.3	0.490	30.60

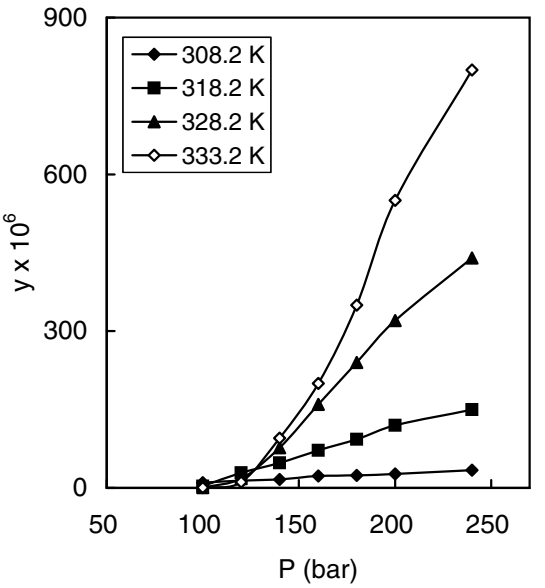


1: Calculated from S.
Synonyms: Glycerin tristearate; Glycerol trioctadecanoate
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.

Tritriacontane ($C_{33}H_{68}$; MW=464.89) **[T-103]**

T (K)	P (bar)	$y^{1)} \times 10^6$
308.2	100	*10.0*
	120	14.0
	140	16.0
	160	23.0
	180	24.0
	200	27.0
	240	34.0

318.2	100	*3.2*
	120	*29.0*
	140	48.0
	160	72.0
	180	93.0
	200	120.0
	240	150.0
328.2	100	*0.5*
	120	*18.0*
	140	77.0
	160	160.0
	180	240.0
	200	320.0
	240	440.0
333.2	100	*0.5*
	120	*11.0*
	140	*95.0*
	160	200.0
	180	350.0
	200	550.0
	240	800.0

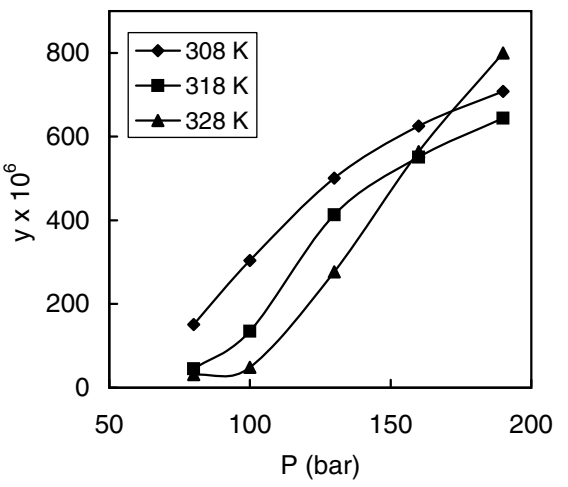


1: All the data at 100 bar, all the data at 120 bar except for the one at 308.2 K, and the data at 140 bar and 333.2 K (the data in Italics) are the extrapolated values in the original article.

Source: Chandler, K.; Pouillot, F. L. L.; Eckert, C. A. *J. Chem. Eng. Data* (1996), 41, 6-10.

Troeger's Base ($C_{17}H_{18}N_2$; MW=250.34) **[T-104]**

T (K)	P (bar)	y x 10^6
308	80	151.0
	100	304.0
	130	501.0
	160	625.0
	190	708.0
318	80	45.4
	100	135.0
	130	413.0
	160	551.0
	190	644.0
328	80	31.3
	100	48.8
	130	277.0
	160	564.0
	190	800.0



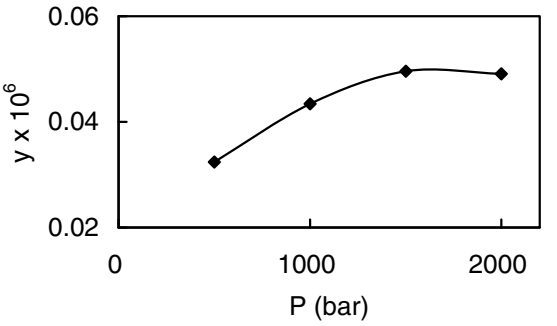
Synonym: 2,8-Dimethyl-6*H*,12*H*-5,11-methanodibenzo[*b,f*][1,5]diazocine

Source: Ren, Q.; Su, B.; Huang, M. ; Wu, P. *J. Chem. Eng. Data* (2000), 45(3), 464-466.

L-Tryptophan ($C_{11}H_{12}N_2O_2$; MW=204.23) **[T-105]**

T (K)	P[1] (bar)	S[1] (μg/Nl[2])	y[3] x 10^6
313.15	500	0.297	0.0324
	1000	0.398	0.0434
	1500	0.455	0.0496
	2000	0.450	0.0491

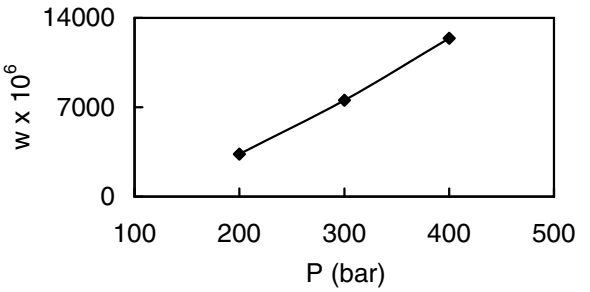
1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: (2*S*)-2-Amino-3-(1*H*-indol-3-yl) propanoic acid
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

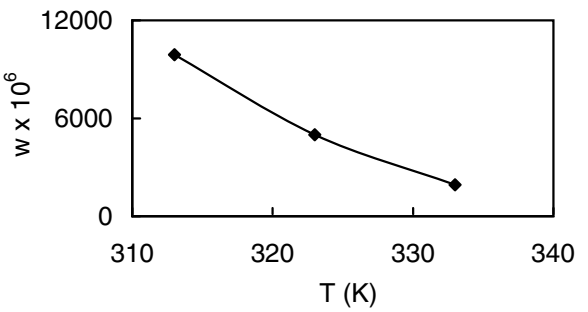


Turmeric[1] oil **[T-106]**

T (K)	P (bar)	W[2] (g/kg CO_2)	w[3] x 10^6
313	200	3.34	3330
	300	7.60	7540
	400	12.60	12400
313	300	10.00	9900
323	300	5.03	5000
333	300	1.93	1930

1: A South Asian herb, *Curcuma longa*.
2: Obtained by digitizing the graph in the original article.
3: Calculated from W.
Source: Gopalan, B.; Goto, M.; Kodama, A.; Hirose, T. *Agric. Food Chem.* (2000), 48(6), 2189-2192.

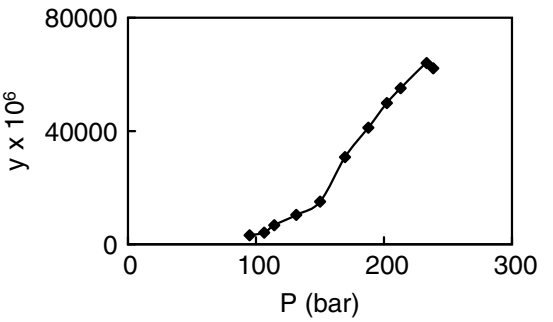




21 Solubility Data U

1-Undecanol ($C_{11}H_{24}O$; MW=172.31) **[U-1]**

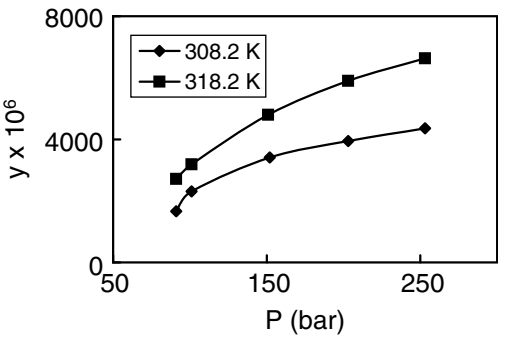
T (K)	P (bar)	y x 10^6
323.15	95.1	3216
	106.4	4114
	114.2	6715
	131.4	10400
	150.2	15040
	169.6	30740
	187.8	41170
	202.2	49860
	213.1	55100
	233.3	64000
	238.5	62120



Synonym: Undecyl alcohol
Source: Artal, M. ; Pauchon, V. ; Embid, J. M.; Jose, J. *J. Chem. Eng. Data* (1998), 43(6), 983-985.

Undecanolide ($C_{11}H_{20}O_2$; MW=184.28) **[U-2]**

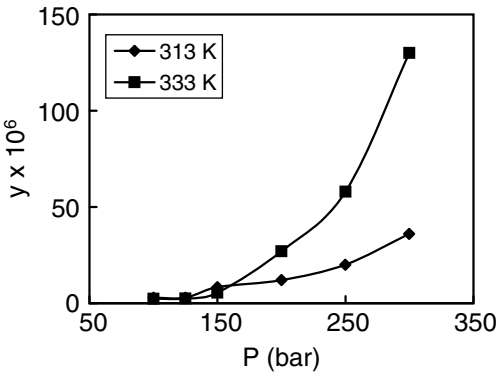
T (K)	P (bar)	y x 10^6
308.2	91	1660
	101	2310
	152	3410
	203	3940
	253	4360
318.2	91	2710
	101	3190
	151	4800
	203	5900
	253	6630



Synonyms: Oxacyclododecan-2-one; 11-Undecanolactone
Source: Mishima, K.; Matsuyama, K.; Baba, M.; Hirabaru, T.; Yamauchi, S.; Tomokage, H.; Takahashi, K.; Yamasaki, N. *J. Chem. Eng. Data* (2001), 46(1), 69-72.

Uracil ($C_4H_4N_2O_2$; MW=112.09) **[U-3]**

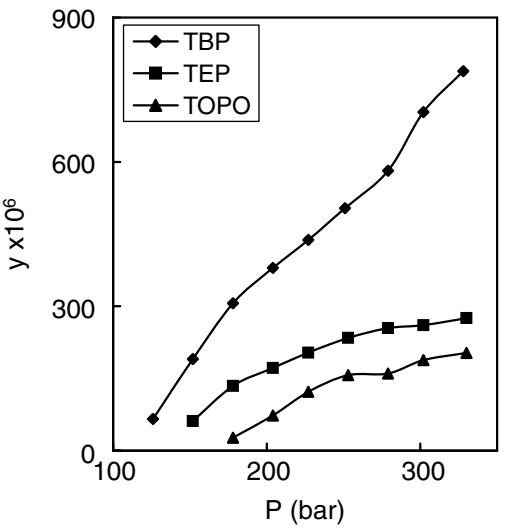
T (K)	P (bar)	M x 10^6 (mol/L)	y x 10^6
313.25	100.0	42	2.9
313.15	125.0	49	2.9
313.35	150.0	150	8.4
313.25	200.0	230	12.0
313.25	249.9	400	20.0
313.15	299.8	740	36.0
333.25	100.0	15	2.3
333.15	125.0	27	2.5
333.15	150.0	75	5.5
333.35	200.1	440	27.0
333.25	250.0	1000	58.0
333.15	299.9	2400	130.0



Synonym: 2,4-Pyrimidinedione
Source: Burgos-Solorzano, G. I.; Brennecke, J. F.; Stadtherr, M. A. *Fluid Phase Equil.* (2004), 220(1), 57-69.

Uranyl bis(thenoyltrifluoroacetonate) · Phosphate (X) Complex[1)] **[U-4]**
($UO_2(C_8H_4F_3O_2S)_2 \cdot X$; FW=736.40[2)])

T (K)	P[3)] (bar)	M[3)] x 10^6 (mol/L)	y[4)] x 10^6
X = TBP ($C_{12}H_{27}O_4P$; MW=266.31)			
313.15	126	1100	66
	152	3400	191
	178	5700	306
	204	7300	380
	227	8600	438
	251	10100	504
	279	11900	582
	302	14600	704
	328	16600	789
X = TEP ($C_6H_{15}O_4P$; MW=182.15)			
313.15	152	1100	62
	178	2500	134
	204	3300	172
	227	4000	204
	253	4700	234
	279	5200	254
	302	5400	260
	330	5800	275



X = TOPO ($C_{24}H_{51}OP$; MW=386.63)

313.15	178	500	27
	204	1400	73
	227	2400	122
	253	3145	157
	279	3270	160
	302	3899	188
	330	4277	203

TBP: Tributyl phosphate
TEP: Triethyl phosphate
TOPO: Trioctylphosphine oxide
1: UO_2 forms a complex with thenoyltrifluoroacetone (H(tta)) and an alkyl phosphate (X).
2: The molecular weight of alkyl phosphate (X) is not included in this formula weight.
3: Obtained by digitizing the graph in the original article. May have large reading errors as the source graph is small.
4: Calculated from M.
Source: Wai, C. M.; Waller, B. *Ind. Eng. Chem. Res.* (2000), 39(12), 4837-4841.

Uranyl bis(trifluoroacetylacetonate) · Pyridine Complex[1)] **[U-5]**

($UO_2(C_5H_4F_3O_2)_2 \cdot C_5H_5N$; FW=655.29)

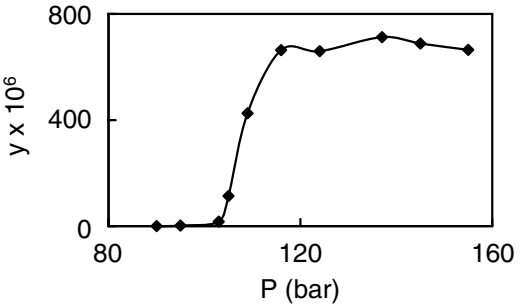
T (K)	P (bar)	Additive (excess ligand)	Amount of Additive (mL)	S[2)] (g U/L)	y[3)] x 10^6
333.15	303.98	None	0.000	0.45	100
		H(tfa)[4)]	0.002	0.79	175
		Pyridine	0.002	0.95	210

1: Uranium was extracted as an adduct of uranyl trifluoroacetylacetonate and pyridine.
2. Solubility is based on grams of uranium per liter.
3: Calculated from S.
4: H(tfa) is trifluoroacetylacetone.
Source: Murzin, A. A.; Babain, V. A.; Shadrin, A. Yu.; Smirnov, I. V.; Lumpov, A. A.; Gorshkov, N. I.; Miroslavov, A. E.; Muradymov, M. Z. *Radiochem.* (2001), 43(2), 177-182.

Uranyl dinitrate · Tributyl phosphate Complex[1)] **[U-6]**

$(UO_2(NO_3)_2 \cdot 2(C_{12}H_{27}O_4P)$; FW=926.67)

T (K)	P[2)] (bar)	S[2)] x 10^6 (g/L)	y[3)] x 10^6
323.15	90	0.001	0.2
	95	0.014	2.0
	103	0.15	16.8
	105	1.1	113.4
	109	4.5	425.7
	116	7.9	663.6
	124	8.5	659.6
	137	10.0	712.7
	145	10.0	688.0
	155	10.0	664.7

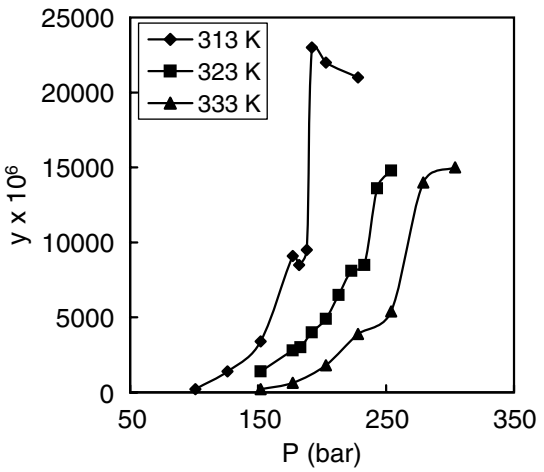


1: UO_2 forms a complex with nitric acid and tributylphosphate.
2: Obtained by digitizing the graph in the original article. As the authors used only 10 μg of uranyl complex, the solubility appeared nearly constant at pressures above 130 bar. Actual solubility may be higher than those shown here at above 30 bar.
3: Calculated from S.
Source: Addleman. R. S.; Carrott. M. J. ; Wai. C. M. *Anal. Chem.* (2000), 72(17), 4015-4021.

Uranyl dinitrate · Tributyl phosphate complex[1)] **[U-7]**

$(UO_2(NO_3)_2 \cdot 2(C_{12}H_{27}O_4P)$; FW=926.67)

T (K)	P[2)] (bar)	M[2)] (mol/L)	y[3)] x 10^6
313	101	0.003	210
	126	0.023	1400
	152	0.061	3400
	177	0.170	9100
	182	0.160	8500
	188	0.180	9500
	192	0.450	23000
	203	0.430	22000
	228	0.430	21000
323	152	0.023	1400
	177	0.048	2800
	183	0.053	3000
	192	0.071	4000
	203	0.088	4900
	213	0.120	6500
	223	0.148	8100
	233	0.160	8500
	243	0.259	13600
	254	0.286	14800



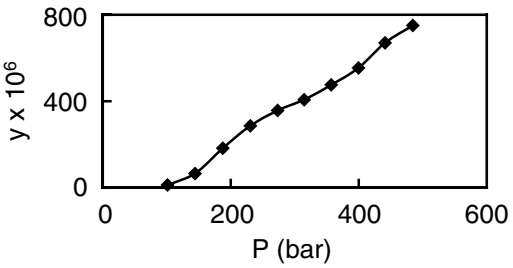
333	152	0.003	210
	177	0.010	640
	203	0.030	1800
	228	0.068	3900
	254	0.098	5400
	279	0.260	14000
	304	0.290	15000

1: UO_2 forms a complex with nitric acid and tributylphosphate(TBP).
2: Obtained by digitizing the graph in the original article.
3. Calculated from M.
Source: Carrott, M. J. ; Waller, B. E. ; Smart, N. G. ; Wai, C. M. *Chem. Comm.* (1998), (3), 373-374.

Uranyl thenoyltrifluoroacetylacetonate · Tributyl phosphate complex[1)] **[U-8]**

$(UO_2(C_{10}H_6F_3O_3S)_2 \cdot 2(C_{12}H_{27}O_4P)$; FW=1329.09)

T (K)	P[2)] (bar)	M[2)] x 10^6	y[3)] x 10^6
313.15	101	190	13
	144	1150	65
	188	3450	183
	231	5630	286
	273	7280	357
	315	8500	407
	357	10200	475
	400	12100	554
	441	14800	670
	485	16900	750

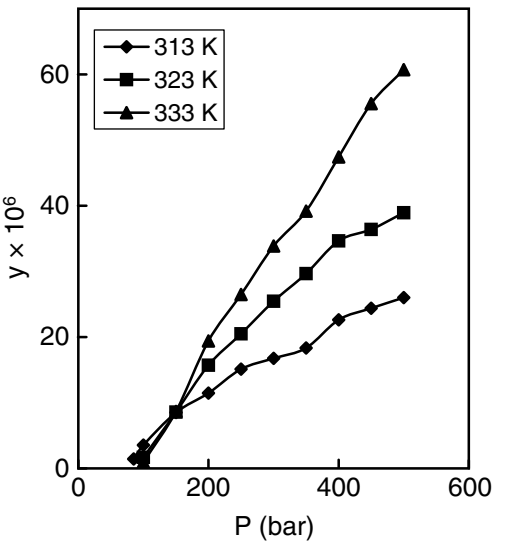


1: UO_2 forms a complex with thenoyltrifluoroacetyl acetone(tta) and tributylphosphate(TBP).
2: Obtained by digitizing the graph in the original article.
3: Calculated from M.
Source: Carrott, M. J.; Wai, C. M. *Anal. Chem.* (1998), 70(11), 2421-2425.

22 Solubility Data V

Vanillic acid ($C_8H_8O_4$; MW=168.15) **[V-1]**

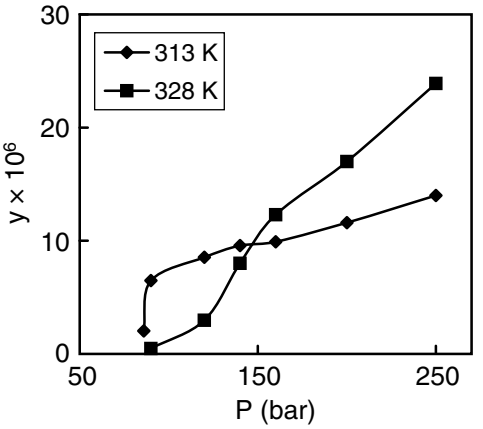
T (K)	P (bar)	y x 10^6
313	85	1.43
	100	3.55
	150	8.52
	200	11.47
	250	15.13
	300	16.75
	350	18.34
	400	22.63
	450	24.39
	500	26.00
323	100	1.69
	150	8.57
	200	15.71
	250	20.49
	300	25.45
	350	29.65
	400	34.63
	450	36.38
	500	38.92
333	100	0.94
	150	8.67
	200	19.39
	250	26.49
	300	33.86
	350	39.16
	400	47.42
	450	55.54
	500	60.71



Synonym: 4-Hydroxy-3-methoxybenzoic acid
Source: Murga, R.; Sanz, M.- T.; Beltran, S.; Cabezas, J.- L. *J. Chem. Eng. Data* (2004), 49(4), 779-782.

Vanillic acid ($C_8H_8O_4$; MW=168.15) **[V-2]**

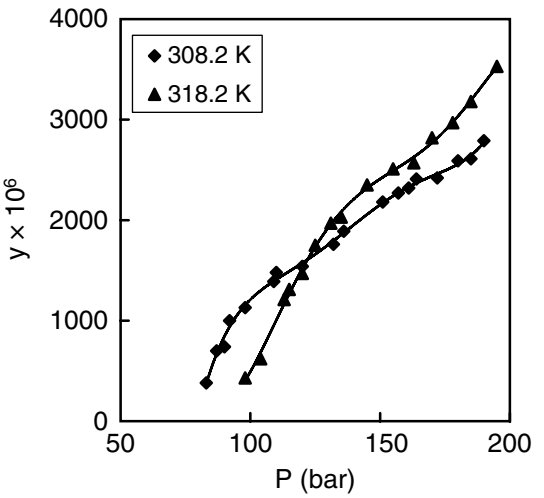
T (K)	P (bar)	y x 10^6
313	86	2.03
	90	6.48
	120	8.54
	140	9.58
	160	9.91
	200	11.60
	250	14.00
328	90	0.48
	120	2.97
	140	8.01
	160	12.30
	200	17.00
	250	23.90



Synonym: 4-Hydroxy-3-methoxybenzoic acid
Source: Stassi, A.; Bettini, R.; Gazzaniga, A.; Giordano, F.; Schiraldi, A. *J. Chem. Eng. Data* (2000), 45(2), 161-165.

Vanillin[1] ($C_8H_8O_3$; MW=152.15) **[V-3]**

T (K)	P (bar)	y[2] x 10^6
308.2	83	380
	87	700
	90	740
	92	1000
	98	1130
	109	1390
	110	1480
	120	1540
	132	1760
	136	1890
	151	2180
	157	2270
	161	2320
	164	2410
	172	2420
	180	2590
	185	2610
	190	2790

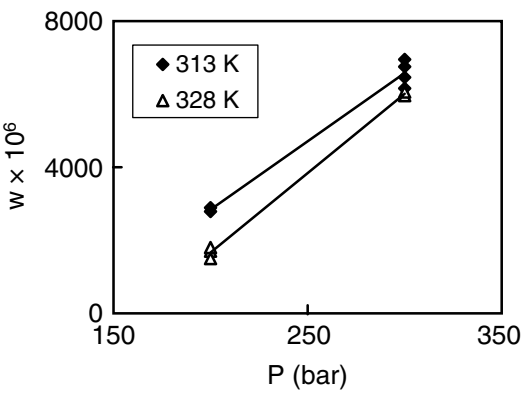


318.2	98	430
	104	620
	113	1210
	115	1310
	120	1470
	125	1750
	131	1970
	135	2030
	145	2350
	155	2510
	163	2570
	170	2820
	178	2970
	185	3180
	195	3530

1: Referred to as vanillan in the source.
2: The solubility unit "mole fraction" in the source table was misprinted and thus was corrected it to "mol%" based on Figure 4 in the same article.
Synonym: 4-Hydroxy-3-methoxybenzaldehyde
Source: Wells, P. A.; Chaplin, R. P.; Foster, N. R. *J. Supercrit. Fluids* (1990), 3(1), 8-14.

Vegetable oil from Buriti fruit[1)] **[V-4]**

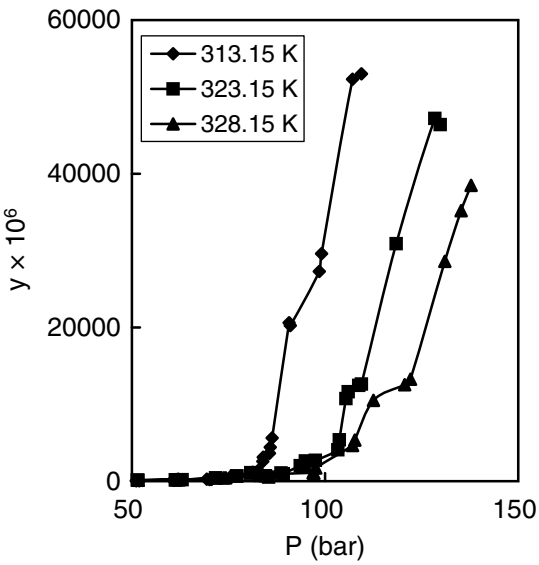
T (K)	P (bar)	W (g/kg CO_2)	$w^{2)} \times 10^6$
313	200	2.8	2790
	200	2.9	2890
	300	6.8	6750
	300	6.5	6460
	300	6.2	6160
	300	7.0	6950
328	200	1.7	1700
	200	1.5	1500
	200	1.8	1800
	300	6.0	5960
	300	6.1	6060



1: Buriti (*Mauritia flexuosa*) is a fruit from plam tree that grows in Amazon region (Brazil).
2. Calculated from W.
Source: De Franca, L. F.; Reber, G.; Meireles, M. A. A.; Machado, N. T.; Brunner, G. *J. Supercrit. Fluids* (1999), 14(3), 247-256.

***cis*-Verbenol** ($C_{10}H_{16}O$; MW=152.23) **[V-5]**

T (K)	P (bar)	y x 10^6
313.15	51.9	60
	51.1	50
	60.7	140
	60.8	130
	69.4	260
	70.1	210
	70.6	230
	75.7	650
	75.8	630
	81.2	1150
	81.5	1130
	82.7	1390
	82.8	1180
	83.1	1140
	83.9	2570
	84.0	3120
	85.6	3620
	85.8	4420
	86.3	5630
	90.7	20620
	91.0	20250
	98.5	27300
	99.1	29600
	107.1	52300
	109.4	53000
323.15	51.4	140
	51.6	130
	61.3	180
	61.3	160
	63.0	200
	71.7	420
	71.7	410
	77.1	650
	77.2	680
	80.8	1110
	80.8	1040
	84.6	700
	85.4	530
	88.6	1070
	89.2	960
	93.6	2010
	94.6	1990
	94.9	2630
	97.5	2720

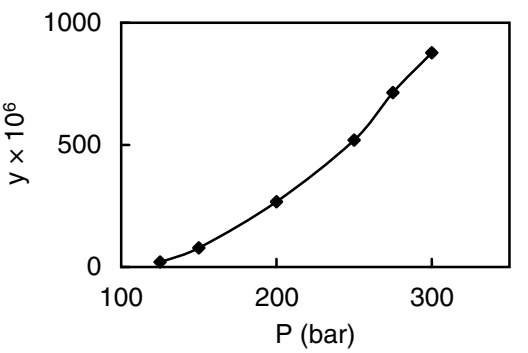


	103.3	4080
	103.7	5390
	105.4	10750
	106.0	11640
	108.7	12460
	109.4	12640
	118.4	30900
	128.4	47200
	129.8	46400
328.15	51.6	120
	62.0	260
	62.2	170
	73.8	440
	74.3	430
	82.8	750
	82.8	840
	88.9	900
	88.9	940
	96.9	1080
	97.1	1020
	97.6	1720
	107.1	4640
	107.7	5350
	112.5	10520
	120.6	12550
	122.1	13270
	131.0	28600
	135.2	35200
	137.8	38500

Synonym: *cis*-2-Pinen-4-ol
Source: Richter, M.; Sovova, H. *Fluid Phase Equil.* (1993), 85, 285-300.

Vitamin A Palmitate ($C_{36}H_{60}O_2$, MW=524.87) **[V-6]**

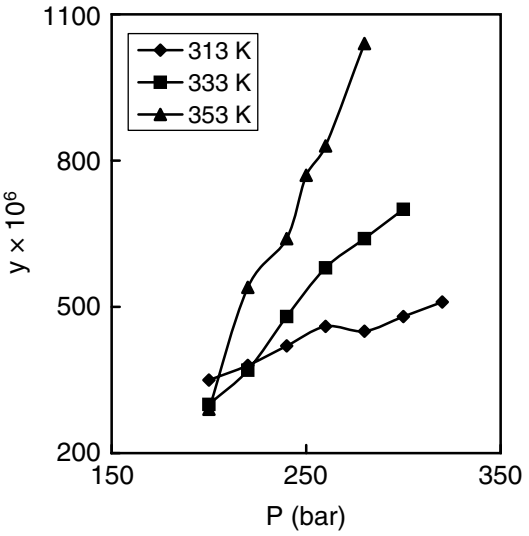
T (K)	P(bar)	W (g/kg CO_2)	y x 10^6
333	125	0.24	20
	150	0.93	78
	200	3.19	267
	250	6.20	520
	275	8.52	714
	300	10.47	877



Synonyms: Retinol hexadecanoate; all-*trans*-Retinol palmitate
Source: Catchpole, O. J.; Grey, J. B.; Noermark, K. A. *J. Chem. Eng. Data* (1998), 43(6), 1091-1095.

Vitamin D_2 ($C_{28}H_{44}O$; MW=396.65) **[V-7]**

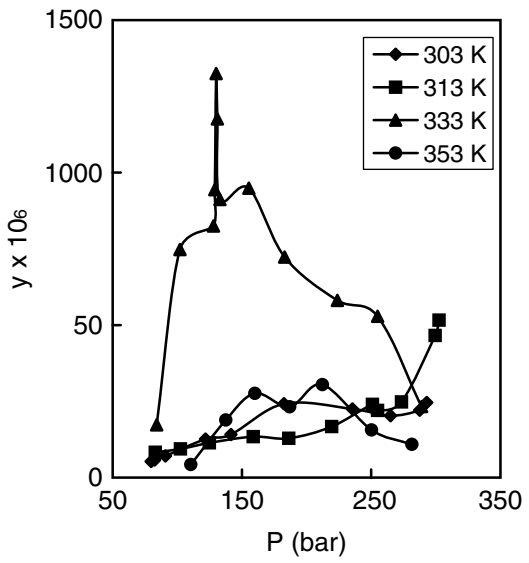
T (K)	P (bar)	W (g/kg)	y × 10^6
313	200	3.2	350
	220	3.4	380
	240	3.8	420
	260	4.2	460
	280	4.0	450
	300	4.3	480
	320	4.6	510
333	200	2.7	300
	220	3.3	370
	240	4.3	480
	260	5.2	580
	280	5.7	640
	300	6.3	700
353	200	2.6	290
	220	4.9	540
	240	5.8	640
	250	6.9	770
	260	7.4	830
	280	9.3	1040



Synonyms: Calciferol; Ergocalciferol
Source: Johannsen, M.; Brunner, G.
J. Chem. Eng. Data (1997), 42(1), 106-111.

Vitamin D_2 ($C_{28}H_{44}O$; MW=396.65) **[V-8]**

T (K)	P (bar)	W (g/kg CO_2)	y x 10_6
303	79.8	0.48	53
	82.5	0.53	58
	90.8	0.64	71
	121.8	1.14	126
	141.5	1.27	141
	182.5	2.19	242
	235.5	2.03	225
	265.0	1.83	203
	287.5	2.00	221
	293.0	2.22	246
313	83.0	0.75	83
	102.5	0.85	94
	124.8	1.03	114
	158.8	1.21	134
	186.3	1.16	129
	219.5	1.50	167
	251.0	2.16	240
	255.0	1.98	220
	273.5	2.24	248
	299.5	4.21	466
	302.5	4.66	516

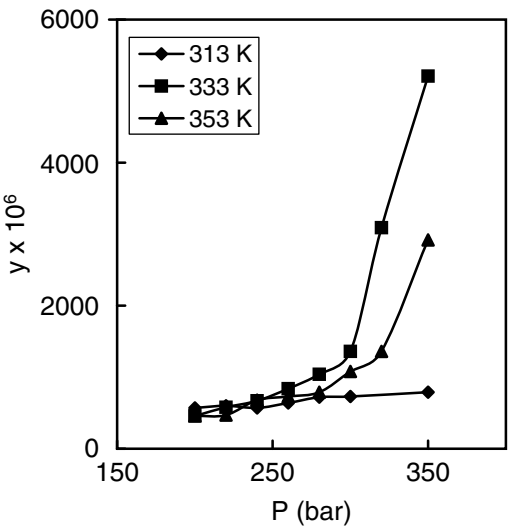


333	84.0	1.56	173
	102.0	6.75	748
	128.0	7.45	825
	129.0	8.52	944
	130.0	11.96	1325
	131.0	10.61	1176
	133.0	8.23	912
	155.3	8.56	949
	183.0	6.52	723
	223.8	5.24	581
	255.0	4.77	529
	289.0	2.10	233
353	110.5	0.38	43
	137.5	1.70	189
	160.0	2.48	276
	187.0	2.09	232
	212.3	2.75	305
	250.3	1.41	156
	281.5	0.98	109

Synonyms: Calciferol; Ergocalciferol
Source: Knez, Z.; Skerget, M.
J. Supercrit. Fluids (2001), 20(2), 131-144.

Vitamin D_3 ($C_{27}H_{44}O$; MW=384.64) **[V-9]**

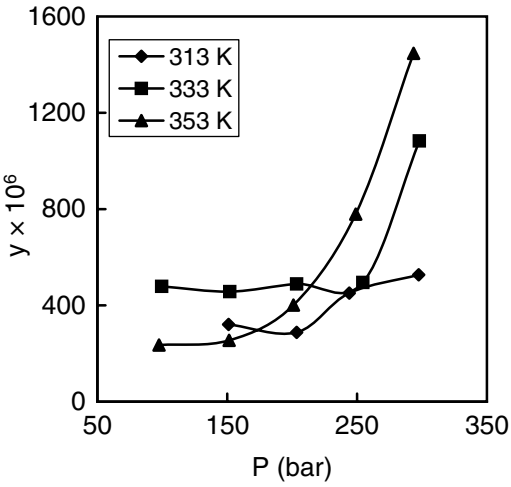
T (K)	P (bar)	W (g/kg)	y x 10^6
313	200	5.0	570
	220	5.2	600
	240	5.0	570
	260	5.5	640
	280	6.3	720
	300	6.4	730
	350	6.9	790
333	200	4.0	460
	220	5.1	580
	240	5.8	670
	260	7.3	840
	280	9.0	1040
	300	11.8	1360
	320	26.4	3090
	350	43.8	5210
353	200	4.0	460
	220	4.1	470
	240	5.9	680
	260	6.4	730
	280	6.9	790
	300	9.3	1080
	320	11.7	1360
	350	25.0	2920



Synonym: Cholecalciferol
Source: Johannsen, M.; Brunner, G.
J. Chem. Eng. Data (1997), 42(1), 106-111.

Vitamin D_3 ($C_{27}H_{44}O$; MW=384.64) **[V-10]**

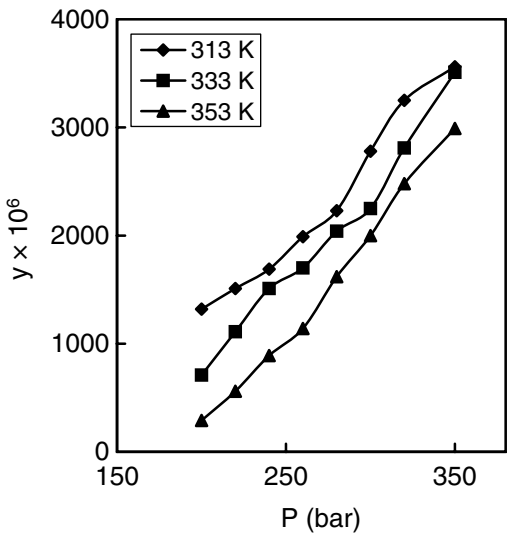
T(K)	P(bar)	W (g/kg CO_2)	y × 10^6
313	151.0	3.02	321
	203.5	2.52	288
	244.0	3.94	451
	297.5	4.61	527
333	99.5	4.19	479
	152.0	4.00	457
	203.5	4.27	489
	254.5	4.33	495
	298.0	9.31	1083
353	97.5	2.06	235
	151.5	2.23	255
	201.0	4.02	401
	249.0	6.82	779
	293.5	12.67	1447



Synonym: Cholecalciferol
Source: Knez, Z.; Skerget, M.
J. Supercrit. Fluids (2001), 20(2), 131-144.

Vitamin K_1 ($C_{31}H_{46}O_2$; MW=450.70) **[V-11]**

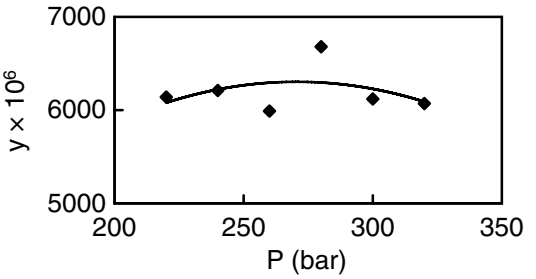
T (K)	P (bar)	W (g/kg)	y × 10^6
313	200	13.4	1320
	220	15.2	1510
	240	17.0	1690
	260	20.0	1990
	280	22.4	2230
	300	27.8	2780
	320	32.3	3250
	350	35.3	3560
333	200	7.2	710
	220	11.2	1110
	240	15.3	1510
	260	17.2	1700
	280	20.5	2040
	300	22.6	2250
	320	28.1	2810
	350	34.8	3510
353	200	3.0	290
	220	5.7	560
	240	9.1	890
	260	11.6	1140
	280	16.4	1620
	300	20.1	2000
	320	24.8	2480
	350	29.8	2990



Synonyms: Phylloquinone; Phytomenadione
Source: Johannsen, M.; Brunner, G.
J. Chem. Eng. Data (1997), 42(1), 106-111.

Vitamin K_3 ($C_{11}H_8O_2$; MW=172.18) **[V-12]**

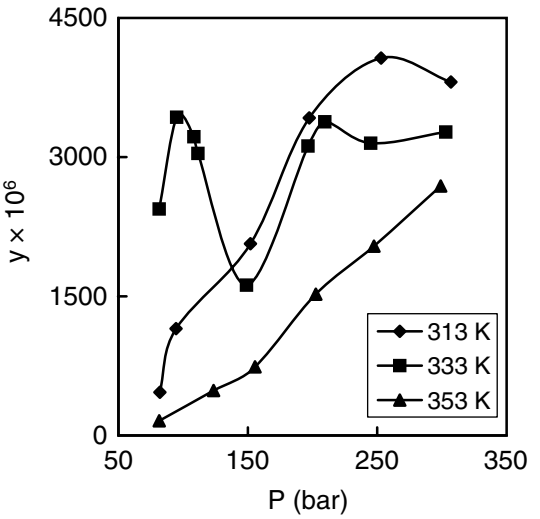
T (K)	P (bar)	W (g/kg)	y × 10^6
313	220	23.6	6140
	240	23.9	6210
	260	23.0	5990
	280	25.6	6680
	300	23.5	6120
	320	23.3	6070



Synonyms: Menadione; 2-Methyl-1,4-naphthoquinone
Source: Johannsen, M.; Brunner, G. *J. Chem. Eng. Data* (1997), 42(1), 106-111.

Vitamin K_3 ($C_{11}H_8O_2$; MW=172.18) **[V-13]**

T (K)	P (bar)	W (g/kg CO_2)	y × 10^6
313	82.0	1.824	466
	94.5	4.514	1152
	152.0	8.105	2067
	197.5	13.439	3423
	253.0	15.984	4068
	307.0	14.962	3809
333	81.5	9.575	2440
	95.0	13.479	3430
	108.3	12.631	3220
	111.5	11.939	3040
	149.0	6.351	1620
	196.5	12.241	3120
	209.5	13.263	3380
	245.0	12.374	3150
	303.0	12.841	3270
353	81.5	0.617	158
	123.5	1.896	484
	155.5	2.898	740
	202.5	5.969	1523
	247.5	8.001	2040
	299.0	10.547	2688

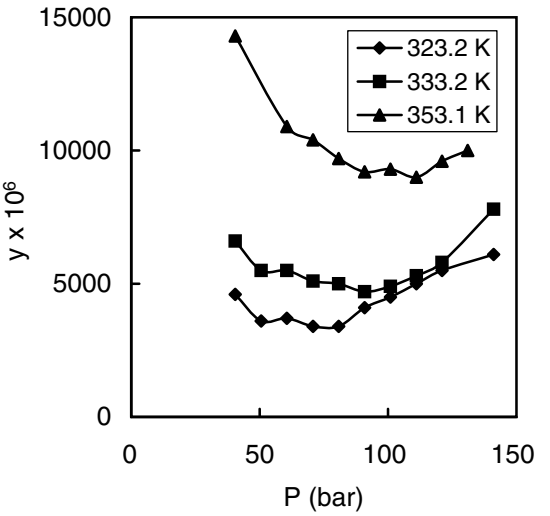


Synonyms: Menadione; 2-Methyl-1,4-naphthoquinone
Source: Knez, Z.; Skerget, M. *J. Supercrit. Fluids* (2001), 20(2), 131-144.

23 Solubility Data W

Water (H_2O; MW=18.02) **[W-1]**

T (K)	P (bar)	y x 10^6
323.2	40.5	4600
	50.6	3600
	60.6	3700
	70.8	3400
	80.8	3400
	90.9	4100
	100.9	4500
	111.0	5000
	121.0	5500
	141.1	6100
333.2	40.5	6600
	50.6	5500
	60.6	5500
	70.8	5100
	80.8	5000
	90.9	4700
	100.9	4900
	111.0	5300
	121.0	5800
	141.1	7800
353.1	40.5	14300
	60.6	10900
	70.8	10400
	80.8	9700
	90.9	9200
	100.9	9300
	111.0	9000
	121.0	9600
	131.0	10000

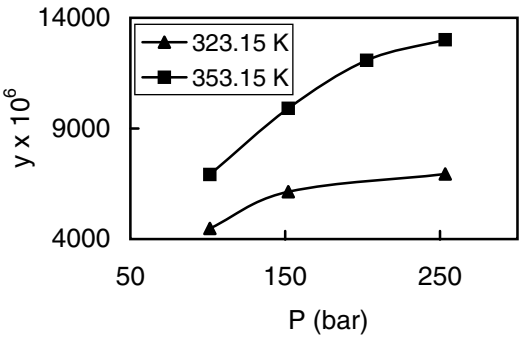


Source: Bamberger, A.; Sieder, G.; Maurer, G. *J. Supercrit. Fluids* (2000), 17(2), 97-110.

Water (H_2O; MW=18.02) **[W-2]**

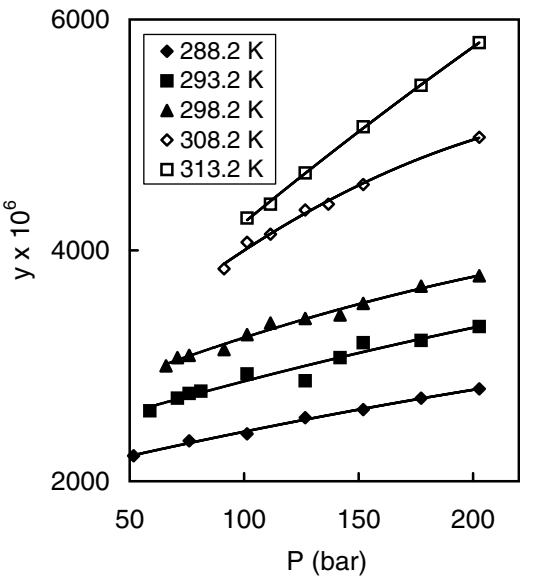
T (K)	P (bar)	S (g/L)	$y^{1)} \times 10^6$
323.15	101.325	0.75	4480
	151.988	1.79	6140
	253.313	2.40	6940
353.15	101.325	0.65	6920
	151.988	1.80	9910
	202.650	3.02	12080
	253.313	3.74	13010

1: Calculated from S.
Source: Chrastil, J. *J. Phys. Chem.* (1982), 86(15), 3016-3021.



Water (H_2O; MW=18.02) **[W-3]**

T (K)	P (bar)	$y \times 10^6$
288.2	51.7	2220
	76.0	2350
	101.3	2410
	126.7	2550
	152.0	2620
	177.3	2720
	202.7	2800
293.2	58.8	2610
	70.9	2720
	76.0	2760
	81.1	2780
	101.3	2930
	126.7	2870
	141.9	3070
	152.0	3200
	177.3	3220
	202.7	3340
298.2	65.9	3000
	70.9	3070
	76.0	3090
	91.2	3140
	101.3	3270
	111.5	3370
	126.7	3410
	141.9	3440
	152.0	3540
	177.3	3690
	202.7	3780
308.2	91.2	3840
	101.3	4070
	111.5	4140
	126.7	4350
	136.8	4400

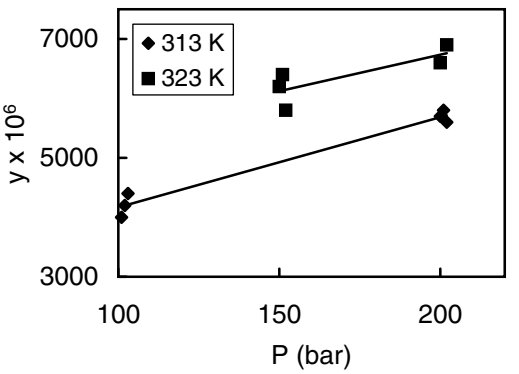


	152.0	4570
	202.7	4980
313.2	101.3	4280
	111.5	4400
	126.7	4670
	152.0	5070
	177.3	5430
	202.7	5800

Source: King, M. B.; Mubarak, A. J.; Kim, J. D.; Bott, T. R. *J. Supercrit. Fluids* (1992), 5(4), 296-302.

Water (H_2O; MW=18.02) **[W-4]**

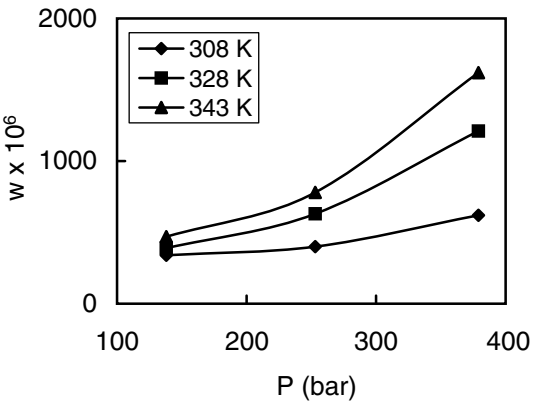
T (K)	P[1)] (bar)	y[1)] x 10^6
313	101	4000
	102	4200
	103	4400
	200	5700
	201	5800
	202	5600
323	150	6200
	151	6400
	152	5800
	200	6600
	202	6900



1: Obtained by digitizing the graph in the original article.
Source: Leeke, G.; Gaspar, F.; Santos, R. *Ind. Eng. Chem. Res.* (2002), 41(8), 2033-2039.

Wax[1)] **[W-5]**

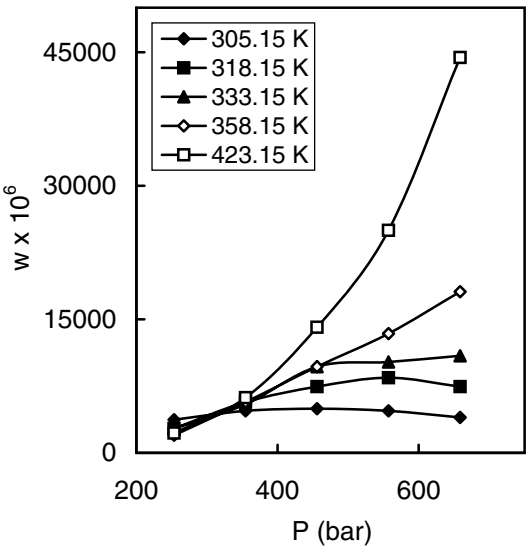
T (K)	P (bar)	S (g/L)	w[2)] x 10^6
308.15	138	0.27	340
	253	0.36	400
	379	0.60	620
328.15	138	0.24	390
	253	0.51	630
	379	1.09	1210
343.15	138	0.21	470
	253	0.58	780
	379	1.37	1620



1: An ingredient of propellants whose molecular weight and molecular weight distribution are not known.
2: Calculated from S.
Source: Ashraf-Khorassani, M.; Taylor, L. T. *J. Chem. Eng. Data* (1999), 44(6), 1254-1258.

Wool wax **[W-6]**

T (K)	P[1)] (bar)	w[1)] x 10^6
305.15	253.3	3720
	354.6	4710
	456.0	4960
	557.3	4710
	658.6	3970
318.15	253.3	2730
	354.6	5700
	456.0	7440
	557.3	8430
	658.6	7440
333.15	253.3	2730
	354.6	5460
	456.0	9670
	557.3	10200
	658.6	10900
358.15	253.3	1980
	354.6	5700
	456.0	9670
	557.3	13400
	658.6	18100
423.15	253.3	2230
	354.6	6200
	456.0	14100
	557.3	25000
	658.6	44400

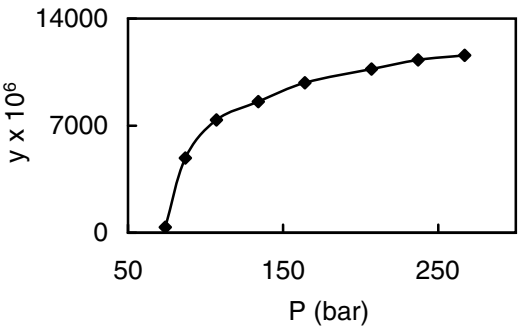


1: Obtained by digitizing the graph in the original article.
Source: Jones, F. W.; Bateup, B. O.; Dixon, D. R.; Gray, S. R. *J. Supercrit. Fluids* (1997), 10(2), 105-111.

24 Solubility Data X

2,5-Xylenol ($C_8H_{10}O$; MW=122.16) **[X-1]**

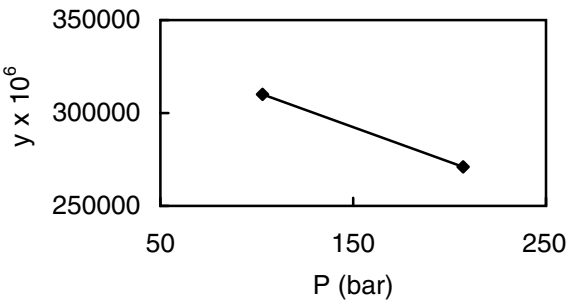
T (K)	P (bar)	y x 10^6
308.15	74	365
	87	4880
	107	7370
	134	8570
	164	9800
	207	10700
	237	11300
	267	11600



Synonym: 2,5-Dimethylphenol
Source: Iwai, Y.; Yamamoto, H.; Tanaka, Y.; Arai, Y. *J. Chem. Eng. Data* (1990), 35(2), 174-176.

2,6-Xylenol ($C_8H_{10}O$; MW=122.16) **[X-2]**

T (K)	P (bar)	y[1)] x 10^6
308.15	103	310000
	207	271000

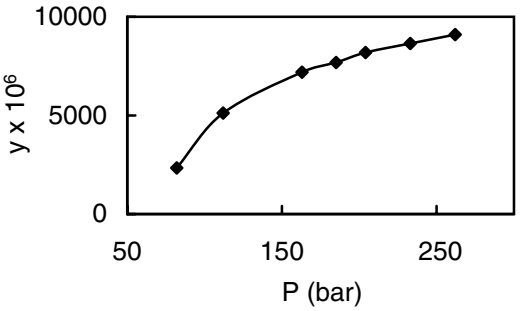


1: Coexisting liquid phase may be present.
Synonym: 2,6-Dimethylphenol
Source: Iwai, Y.; Yamamoto, H.; Tanaka, Y.; Arai, Y. *J. Chem. Eng. Data* (1990), 35(2), 174-176.

.

3,4-Xylenol ($C_8H_{10}O$; MW=122.16) **[X-3]**

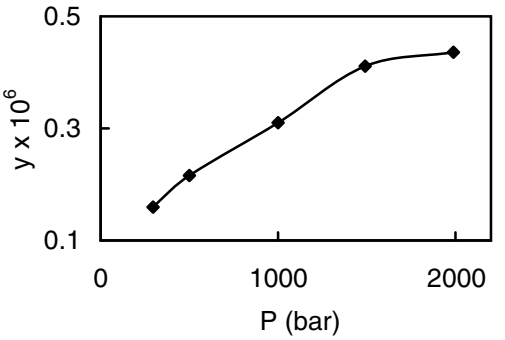
T (K)	P (bar)	y x 10^6
308.15	82	2340
	112	5120
	163	7190
	185	7680
	204	8190
	233	8650
	262	9100



Synonyms: 3,4-Dimethylphenol; 4-Hydroxy-1,2-dimethylbenzene
Source: Mori, Y.; Shimizu, T.; Iwai, Y.; Arai, Y. *J. Chem. Eng. Data* (1992), 37(3), 317-19.

D-Xylose ($C_5H_{10}O_5$; MW=150.13) **[X-4]**

T (K)	P[1] (bar)	S[1] (µg/Nl[2])	y[3] x 10^6
313.15	296	1.076	0.160
	500	1.455	0.216
	1000	2.091	0.310
	1491	2.773	0.411
	1988	2.939	0.436



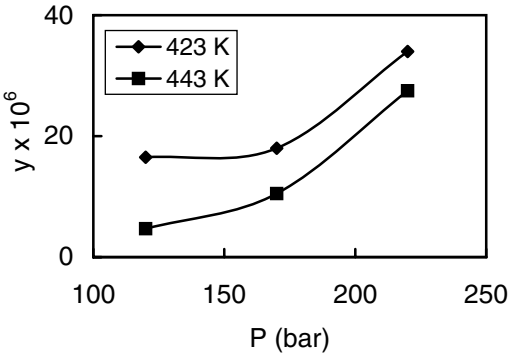
1: Obtained by digitizing the graph in the original article.
2: "Nl" means "Normliter," which is one liter at 273.15 K and 1 atm.
3: Calculated from S.
Synonym: (+)-Xylose
Source: Stahl, E.; Schilz, W. *Chem. Ing. Tech.* (1978), 50(7), 535-537.

25 Solubiliy Data Y

Yttrium tris(acetylacetonate) ($C_{15}H_{21}O_6Y$; FW=386.23) **[Y-1]**

T (K)	P (bar)	y x 10^6
423.15	120	16.5
	170	18.0
	220	34.0
443.15	120	4.7
	170	10.5
	220	27.5

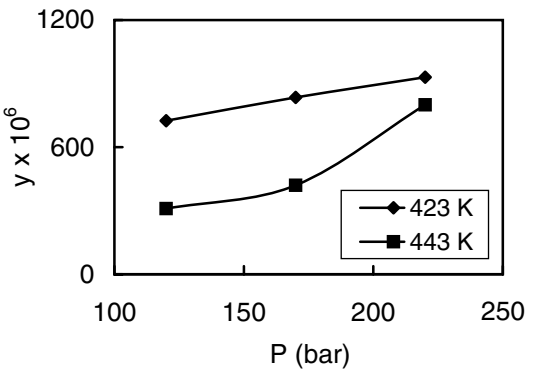
Synonyms: Tris(2,4-pentanedionato)yttrium; Tris(acetylacetonato)yttrium
Source: M'Hamdi, R.; Bocquet, J.; Chhor, K.; Pommier, C. *J. Supercrit. Fluids* (1992), 5(1), 55-59.



Yttrium tris(hexafluoroacetylacetonate) ($C_{15}H_3F_{18}O_6Y$; FW=746.09) **[Y-2]**

T (K)	P (bar)	y x 10^6
423.15	120	725
	170	835
	220	930
443.15	120	310
	170	420
	220	800

Synonyms: Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)yttrium; Yttrium(III) hexafluoroacetylacetonate
Source: M'Hamdi, R.; Bocquet, J.; Chhor, K.; Pommier, C. *J. Supercrit. Fluids* (1992), 5(1), 55-59.

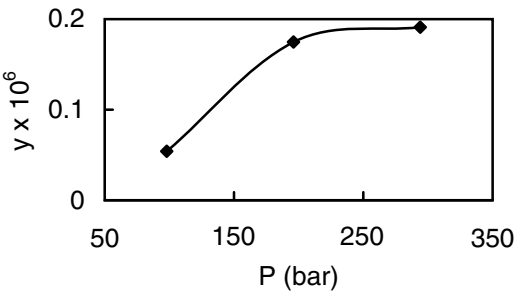


26 Solubility Data Z

Zinc bis(acetylacetonate) ($C_{10}H_{14}O_4Zn$; FW=263.60) **[Z-1]**

T (K)	P[1] (bar)	S[1] (mg/L)	y[2] x 10^6
333	98	0.091	0.054
	196	0.754	0.175
	294	0.947	0.191

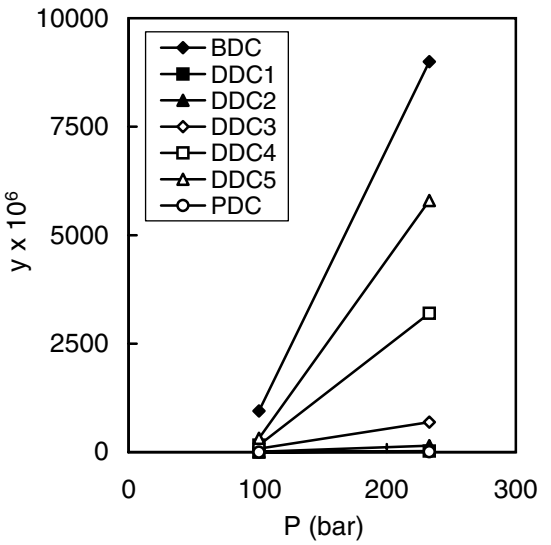
1: Obtained by digitizing the graph in the original article.
2. Calculated from S.
Synonym*:* Bis(2,4-pentanedionato)zinc; Zinc bis(2,4-pentanedionate)
Source: Saito, N.; Ikushima, Y.; Goto, T. *Bull. Chem. Soc. Japan* (1990), 63(5), 1532-1534.



Zinc dithiocarbamate complexes **[Z-2]**

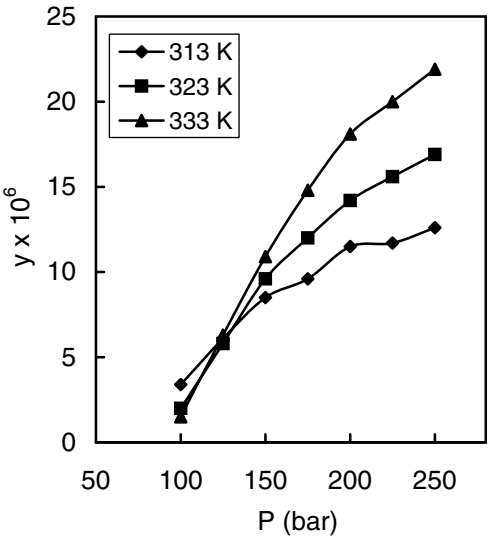
T (K)	P (bar)	y x 10^6
Zinc bis(trifluoroethyl)dithiocarbamate (BDC)		
333	101	950
	233	9000
Zinc diethyldithiocarbamate (DDC1)		
333	101	1.1
	233	24.0
Zinc dipropyldithiocarbamate (DDC2)		
333	101	7.9
	233	150
Zinc dibutyldithiocarbamate (DDC3)		
333	101	82
	233	690
Zinc dipentyldithiocarbamate (DDC4)		
333	101	160
	233	3200
Zinc dihexyldithiocarbamate (DDC5)		
333	101	320
	233	5800
Zinc pyrrolidinedithiocarbamate (PDC)		
333	101	0.32
	233	9.00

Source: Wai, C. M.; Wang, S.; Yu, J.-J. *Anal. Chem.* (1996), 68(19), 3516-3519.



Zopiclone ($C_{17}H_{17}ClN_6O_3$; MW=388.81) **[Z-3]**

T (K)	P (bar)	S×10^3 (g/L)	y × 10^6
313	100	19.0	3.4
	125	39.6	6.1
	150	58.7	8.5
	175	69.2	9.6
	200	85.4	11.5
	225	89.1	11.7
	250	97.9	12.6
323	100	7.0	2.0
	125	31.8	5.8
	150	59.6	9.6
	175	79.5	12.0
	200	98.4	14.2
	225	112.0	15.6
	250	124.6	16.9
333	100	3.9	1.5
	125	27.4	6.3
	150	58.6	10.9
	175	88.8	14.8
	200	116.2	18.1
	225	134.0	20.0
	250	152.3	21.9



Synonym: 1-Piperazinecarboxylic acid, 4-methyl-6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]pyrazin-5-yl ester
Source: Medina, I.; Bueno, J. L. *J. Chem. Eng. Data* (2001), 46(5), 1211-1214.

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Appendix A
Density Data of Carbon Dioxide

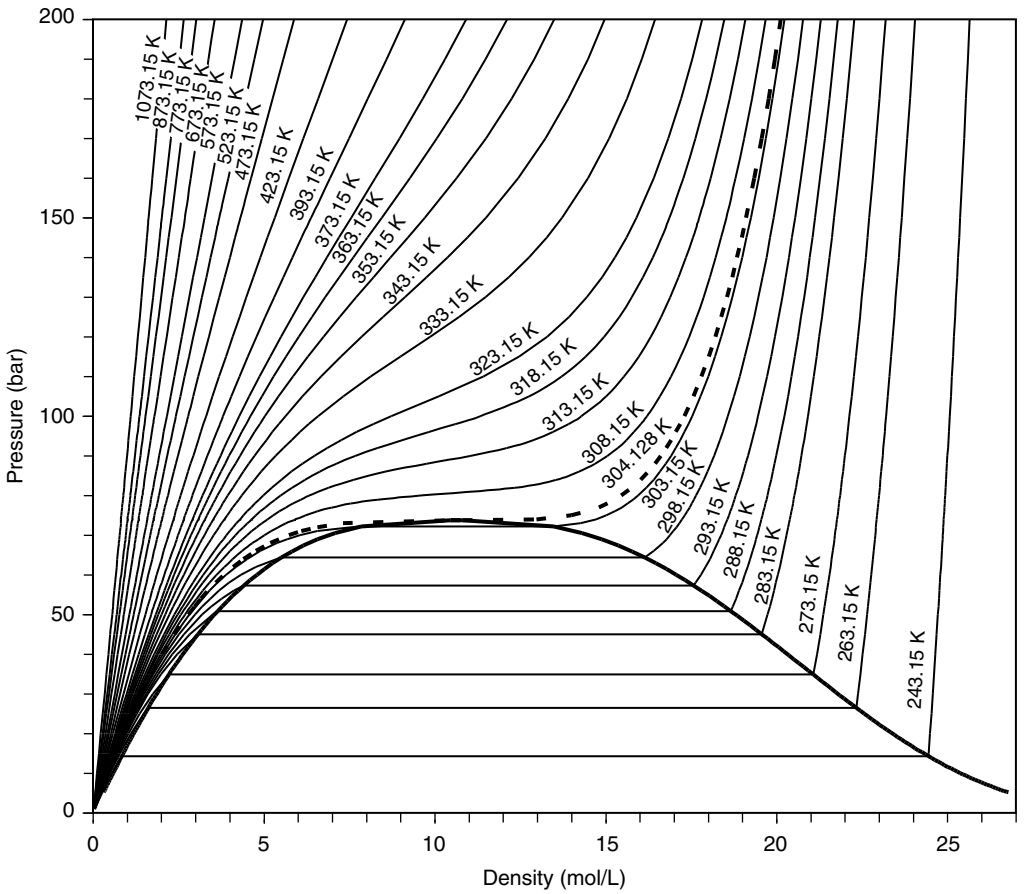

FIGURE A.1 Density variation of carbon dioxide with temperature and pressure. The bold line shows the saturated liquid line (left) and the saturated vapor line (right). The dashed line represents the density at the critical temperature, i.e., 30.978°C (304.128 K).

TABLE A.1
Density of Saturated Carbon Dioxide versus Temperature[a]

			Density (mol/L)	
T **(°C)**	***T*** **(K)**	***P*** **(bar)**	**Sat'd Liq.**	**Sat'd Vap.**
−56.558	216.59	5.18	26.777	0.31268
−56	217.15	5.31	26.732	0.3200
−55	218.15	5.54	26.650	0.3334
−54	219.15	5.78	26.568	0.3473
−53	220.15	6.03	26.485	0.3616
−52	221.15	6.29	26.402	0.3764
−51	222.15	6.55	26.318	0.3916
−50	223.15	6.82	26.234	0.4073
−49	224.15	7.10	26.150	0.4235
−48	225.15	7.39	26.065	0.4402
−47	226.15	7.69	25.979	0.4574
−46	227.15	8.00	25.894	0.4752
−45	228.15	8.32	25.807	0.4935
−44	229.15	8.64	25.720	0.5123
−43	230.15	8.98	25.633	0.5317
−42	231.15	9.33	25.545	0.5517
−41	232.15	9.68	25.457	0.5723
−40	233.15	10.05	25.368	0.5935
−39	234.15	10.42	25.278	0.6154
−38	235.15	10.81	25.188	0.6378
−37	236.15	11.20	25.097	0.6610
−36	237.15	11.61	25.006	0.6848
−35	238.15	12.02	24.914	0.7093
−34	239.15	12.45	24.821	0.7345
−33	240.15	12.89	24.727	0.7605
−32	241.15	13.34	24.633	0.7872
−31	242.15	13.80	24.539	0.8147
−30	243.15	14.28	24.443	0.8430
−29	244.15	14.76	24.347	0.8720
−28	245.15	15.26	24.250	0.9020
−27	246.15	15.77	24.152	0.9328
−26	247.15	16.29	24.053	0.9645
−25	248.15	16.83	23.953	0.9971
−24	249.15	17.38	23.853	1.0306
−23	250.15	17.94	23.752	1.0651
−22	251.15	18.51	23.649	1.1006
−21	252.15	19.10	23.546	1.1371
−20	253.15	19.70	23.442	1.1747
−19	254.15	20.31	23.336	1.2134
−18	255.15	20.94	23.230	1.2532
−17	256.15	21.58	23.122	1.2942
−16	257.15	22.24	23.014	1.3364
−15	258.15	22.91	22.904	1.3799
−14	259.15	23.59	22.792	1.4246
−13	260.15	24.29	22.680	1.4707
−12	261.15	25.01	22.566	1.5182
−11	262.15	25.74	22.451	1.5671

(continued)

TABLE A.1—*Continued*

			Density (mol/L)	
T **(°C)**	***T*** **(K)**	***P*** **(bar)**	**Sat'd Liq.**	**Sat'd Vap.**
−10	263.15	26.49	22.334	1.6175
−9	264.15	27.25	22.216	1.6694
−8	265.15	28.03	22.096	1.7230
−6	267.15	29.63	21.852	1.8353
−5	268.15	30.46	21.727	1.8941
−4	269.15	31.30	21.600	1.9548
−3	270.15	32.16	21.472	2.0176
−2	271.15	33.04	21.341	2.0824
−1	272.15	33.94	21.208	2.1494
0	273.15	34.85	21.073	2.2188
1	274.15	35.78	20.936	2.2905
2	275.15	36.73	20.796	2.3648
3	276.15	37.70	20.653	2.4418
4	277.15	38.69	20.508	2.5216
5	278.15	39.70	20.360	2.6044
6	279.15	40.72	20.208	2.6905
7	280.15	41.77	20.054	2.7799
8	281.15	42.83	19.895	2.8730
9	282.15	43.92	19.733	2.9699
10	283.15	45.02	19.567	3.0711
11	284.15	46.15	19.396	3.1767
12	285.15	47.30	19.220	3.2871
13	286.15	48.47	19.039	3.4029
14	287.15	49.66	18.853	3.5244
15	288.15	50.87	18.660	3.6521
16	289.15	52.11	18.460	3.7868
17	290.15	53.37	18.252	3.9293
18	291.15	54.65	18.036	4.0803
19	292.15	55.96	17.810	4.2410
20	293.15	57.29	17.573	4.4127
21	294.15	58.65	17.323	4.5971
22	295.15	60.03	17.059	4.7963
23	296.15	61.44	16.777	5.0130
24	297.15	62.88	16.474	5.2510
25	298.15	64.34	16.144	5.5154
26	299.15	65.84	15.780	5.8138
27	300.15	67.36	15.368	6.1581
28	301.15	68.92	14.889	6.5691
29	302.15	70.51	14.300	7.0900
30	303.15	72.14	13.481	7.8415
30.978	304.13	73.77	10.625	10.625

[a] The densities as well as critical properties and the triple point of carbon dioxide were obtained from Chemistry Webbook, NIST (http://webbook.nist.gov/chemistry/fluid/, July 2005).

TABLE A.2
Density of Saturated Carbon Dioxide versus Pressure[a]

			Density (mol/L)	
***P* (bar)**	***T* (°C)**	***T* (K)**	**Sat'd Liq.**	**Sat'd Vap.**
5.18	−56.558	216.59	26.777	0.3127
5.5	−55.17	217.98	26.664	0.3311
6	−53.12	220.04	26.494	0.3599
7	−51.19	221.96	26.334	0.3887
7	−49.37	223.78	26.181	0.4175
8	−47.65	225.51	26.035	0.4463
8	−46.01	227.15	25.894	0.4751
9	−44.44	228.71	25.759	0.5040
9	−42.94	230.21	25.628	0.5329
10	−41.50	231.65	25.501	0.5619
10	−40.12	233.03	25.379	0.5909
11	−37.50	235.65	25.143	0.6492
12	−35.06	238.09	24.919	0.7079
13	−32.76	240.39	24.705	0.7669
14	−30.58	242.57	24.499	0.8264
15	−28.52	244.63	24.300	0.8863
16	−26.56	246.59	24.108	0.9467
17	−24.68	248.47	23.922	1.0076
18	−22.89	250.26	23.740	1.0691
19	−21.16	251.99	23.563	1.1312
20	−19.50	253.65	23.389	1.1938
21	−17.90	255.25	23.219	1.2572
22	−16.36	256.79	23.053	1.3212
23	−14.86	258.29	22.889	1.3859
24	−13.42	259.73	22.727	1.4513
25	−12.01	261.14	22.568	1.5175
26	−10.65	262.50	22.410	1.5846
27	−9.32	263.83	22.255	1.6524
28	−8.03	265.12	22.101	1.7211
29	−6.78	266.37	21.948	1.7908
30	−5.55	267.60	21.796	1.8614
31	−4.36	268.79	21.646	1.9330
32	−3.19	269.96	21.496	2.0056
33	−2.05	271.10	21.347	2.0793
34	−0.93	272.22	21.199	2.1541
35	0.16	273.31	21.051	2.2301
36	1.23	274.38	20.904	2.3074
37	2.28	275.43	20.757	2.3859
38	3.30	276.45	20.609	2.4658
39	4.31	277.46	20.462	2.5471
40	5.30	278.45	20.315	2.6299
41	6.27	279.42	20.167	2.7142
42	7.22	280.37	20.019	2.8002
43	8.16	281.31	19.870	2.8880
44	9.08	282.23	19.720	2.9775
45	9.98	283.13	19.570	3.0690

(continued)

TABLE A.2—*Continued*

			Density (mol/L)	
***P* (bar)**	***T* (°C)**	***T* (K)**	**Sat'd Liq.**	**Sat'd Vap.**
46	10.87	284.02	19.418	3.1626
47	11.74	284.89	19.266	3.2583
48	12.60	285.75	19.112	3.3563
49	13.45	286.60	18.956	3.4568
50	14.28	287.43	18.798	3.5600
51	15.11	288.26	18.639	3.6659
52	15.91	289.06	18.477	3.7749
53	16.71	289.86	18.313	3.8871
54	17.50	290.65	18.146	4.0029
55	18.27	291.42	17.976	4.1225
56	19.03	292.18	17.803	4.2462
57	19.78	292.93	17.625	4.3745
58	20.53	293.68	17.444	4.5078
59	21.26	294.41	17.257	4.6467
60	21.98	295.13	17.065	4.7917
61	22.69	295.84	16.867	4.9437
62	23.39	296.54	16.661	5.1035
63	24.08	297.23	16.447	5.2723
64	24.77	297.92	16.223	5.4514
65	25.44	298.59	15.988	5.6427
66	26.11	299.26	15.738	5.8485
67	26.77	299.92	15.470	6.0720
68	27.41	300.56	15.181	6.3179
69	28.05	301.20	14.862	6.5930
70	28.68	301.83	14.504	6.9083
71	29.30	302.45	14.086	7.2839
72	29.92	303.07	13.565	7.7630
73	30.52	303.67	12.812	8.4780
73.77	30.978	304.13	10.625	10.625

[a] The densities as well as critical properties and the triple point of carbon dioxide were obtained from Chemistry Webbook, NIST (http://webbook.nist.gov/chemistry/fluid/, July 2005).

TABLE A.3
Density of Carbon Dioxide in the Single-Phase Region, mol/L

	Temperature (°C) (Temperature (K))												
P (bar)	**−56.56 (216.59)**	**−55 (218.15)**	**−50 (223.15)**	**−45 (228.15)**	**−40 (233.15)**	**−35 (238.15)**	**−30 (243.15)**	**−25 (248.15)**	**−20 (253.15)**	**−15 (258.15)**	**−10 (263.15)**	**−5 (268.15)**	**0 (273.15)**
1	0.3127	0.0559	0.0546	0.0534	0.0522	0.0510	0.0500	0.0489	0.0479	0.0470	0.0461	0.0452	0.0443
5		0.2980	0.2895	0.2815	0.2741	0.2671	0.2605	0.2544	0.2485	0.2430	0.2377	0.2327	0.2279
10		26.672	26.251	25.817	0.5904	0.5714	0.5540	0.5381	0.5233	0.5096	0.4968	0.4848	0.4735
15		26.696	26.278	25.847	25.400	24.935	24.449	0.8635	0.8342	0.8077	0.7836	0.7614	0.7409
20		26.720	26.304	25.876	25.432	24.971	24.489	23.982	23.445	1.1505	1.1080	1.0703	1.0363
25		26.744	26.33	25.904	25.464	25.006	24.529	24.028	23.497	22.929	1.4886	1.4247	1.3695
30		26.768	26.356	25.933	25.495	25.041	24.568	24.072	23.548	22.988	22.384	1.8499	1.7572
35		26.791	26.382	25.961	25.526	25.076	24.607	24.115	23.597	23.046	22.453	21.804	21.076
40		26.815	26.407	25.989	25.557	25.11	24.645	24.158	23.646	23.103	22.52	21.885	21.18
45		26.838	26.433	26.016	25.587	25.143	24.682	24.2	23.694	23.158	22.585	21.963	21.277
50		26.861	26.458	26.044	25.617	25.177	24.719	24.242	23.741	23.212	22.648	22.039	21.371
52		26.87	26.468	26.055	25.629	25.19	24.734	24.258	23.76	23.233	22.673	22.068	21.407
54		26.879	26.478	26.066	25.641	25.203	24.748	24.275	23.778	23.254	22.697	22.097	21.442
56		26.888	26.487	26.076	25.653	25.216	24.763	24.291	23.797	23.275	22.721	22.126	21.477
58		26.897	26.497	26.087	25.665	25.229	24.777	24.307	23.815	23.296	22.745	22.154	21.511
60		26.906	26.507	26.098	25.677	25.242	24.792	24.323	23.833	23.317	22.769	22.182	21.545
62		26.915	26.517	26.108	25.688	25.255	24.806	24.339	23.851	23.337	22.793	22.21	21.579
64		26.924	26.527	26.119	25.7	25.268	24.82	24.355	23.868	23.357	22.816	22.237	21.611
66		26.933	26.536	26.13	25.712	25.28	24.834	24.37	23.886	23.377	22.839	22.264	21.644
68		26.942	26.546	26.14	25.723	25.293	24.848	24.386	23.904	23.397	22.862	22.291	21.675
69		26.946	26.551	26.146	25.729	25.3	24.855	24.394	23.912	23.407	22.873	22.304	21.691
70		26.951	26.556	26.151	25.735	25.306	24.862	24.402	23.921	23.417	22.885	22.318	21.707
71		26.955	26.561	26.156	25.74	25.312	24.869	24.409	23.93	23.427	22.896	22.331	21.722
72		26.96	26.565	26.161	25.746	25.318	24.876	24.417	23.939	23.437	22.907	22.344	21.738
73		26.964	26.57	26.167	25.752	25.325	24.883	24.425	23.947	23.446	22.918	22.357	21.753
74		26.969	26.575	26.172	25.758	25.331	24.89	24.433	23.956	23.456	22.929	22.369	21.768
75		26.973	26.58	26.177	25.763	25.337	24.897	24.44	23.964	23.466	22.94	22.382	21.783
76		26.977	26.585	26.182	25.769	25.343	24.904	24.448	23.973	23.475	22.951	22.395	21.798
77		26.982	26.589	26.187	25.775	25.35	24.911	24.455	23.981	23.485	22.962	22.408	21.813
78		26.986	26.594	26.193	25.78	25.356	24.918	24.463	23.990	23.495	22.973	22.42	21.828

79	26.599	26.198	25.786	25.362	24.924	24.471	23.998	23.504	22.984	22.433	21.843
80	26.604	26.203	25.792	25.368	24.931	24.478	24.007	23.514	22.995	22.445	21.857
82	26.613	26.213	25.803	25.381	24.945	24.493	24.024	23.533	23.016	22.47	21.886
84	26.623	26.223	25.814	25.393	24.958	24.508	24.04	23.551	23.038	22.495	21.915
86	26.632	26.234	25.825	25.405	24.972	24.523	24.057	23.570	23.059	22.519	21.943
88	26.641	26.244	25.836	25.417	24.985	24.538	24.073	23.588	23.08	22.543	21.971
90	26.651	26.254	25.847	25.429	24.998	24.553	24.09	23.607	23.101	22.567	21.999
92	26.66	26.264	25.858	25.441	25.012	24.567	24.106	23.625	23.121	22.59	22.026
94	26.669	26.274	25.869	25.453	25.025	24.582	24.122	23.643	23.142	22.614	22.053
96	26.679	26.284	25.88	25.465	25.038	24.596	24.138	23.661	23.162	22.637	22.08
98	26.688	26.294	25.891	25.477	25.051	24.611	24.154	23.679	23.182	22.66	22.106
100	26.697	26.304	25.902	25.489	25.064	24.625	24.17	23.697	23.202	22.682	22.133
105	26.72	26.329	25.929	25.519	25.096	24.661	24.209	23.741	23.251	22.738	22.197
110	26.743	26.354	25.956	25.548	25.128	24.696	24.248	23.784	23.3	22.793	22.259
115	26.765	26.378	25.982	25.577	25.16	24.73	24.286	23.826	23.347	22.847	22.32
120	26.788	26.403	26.009	25.605	25.191	24.765	24.324	23.868	23.394	22.899	22.38
125	26.81	26.427	26.035	25.634	25.222	24.798	24.361	23.909	23.44	22.951	22.438
130	26.832	26.451	26.061	25.662	25.252	24.832	24.398	23.95	23.485	23.001	22.495
135	26.854	26.474	26.086	25.689	25.283	24.865	24.434	23.99	23.529	23.051	22.551
140	26.876	26.498	26.112	25.717	25.313	24.898	24.47	24.029	23.573	23.099	22.606
145	26.898	26.521	26.137	25.744	25.342	24.93	24.506	24.068	23.616	23.147	22.659
150	26.919	26.544	26.162	25.771	25.372	24.962	24.541	24.107	23.659	23.194	22.712
160	26.962	26.59	26.211	25.825	25.429	25.025	24.609	24.182	23.741	23.286	22.814
170	27.004	26.635	26.26	25.877	25.486	25.086	24.676	24.255	23.822	23.375	22.912
180	27.045	26.68	26.308	25.929	25.542	25.147	24.742	24.327	23.9	23.461	23.007
190	27.086	26.723	26.355	25.979	25.597	25.206	24.806	24.397	23.976	23.544	23.099
200	27.127	26.767	26.401	26.029	25.65	25.264	24.869	24.465	24.051	23.625	23.188
210	27.166	26.809	26.447	26.078	25.703	25.321	24.931	24.532	24.123	23.704	23.274
220	27.206	26.852	26.492	26.127	25.755	25.377	24.991	24.597	24.194	23.781	23.358
230	27.245	26.893	26.536	26.174	25.806	25.432	25.05	24.661	24.263	23.856	23.44
240	27.283	26.934	26.58	26.221	25.856	25.486	25.108	24.723	24.331	23.93	23.519
250	27.321	26.975	26.623	26.267	25.906	25.539	25.165	24.785	24.397	24.001	23.597
260	27.359	27.015	26.666	26.313	25.955	25.591	25.221	24.845	24.461	24.071	23.672
270	27.396	27.054	26.708	26.358	26.003	25.642	25.276	24.904	24.525	24.139	23.746
280	27.433	27.093	26.75	26.402	26.05	25.693	25.33	24.962	24.587	24.206	23.818
290	27.469	27.132	26.791	26.446	26.096	25.742	25.383	25.018	24.648	24.271	23.888
300	27.505	27.17	26.831	26.489	26.142	25.791	25.435	25.074	24.708	24.335	23.957

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))												
P (bar)	**−56.56 (216.59)**	**−55 (218.15)**	**−50 (223.15)**	**−45 (228.15)**	**−40 (233.15)**	**−35 (238.15)**	**−30 (243.15)**	**−25 (248.15)**	**−20 (253.15)**	**−15 (258.15)**	**−10 (263.15)**	**−5 (268.15)**	**0 (273.15)**
320			27.576	27.245	26.911	26.574	26.232	25.887	25.537	25.183	24.824	24.46	24.09
340				27.319	26.989	26.656	26.32	25.98	25.636	25.288	24.936	24.579	24.218
360				27.39	27.065	26.737	26.405	26.07	25.732	25.39	25.045	24.695	24.34
380				27.461	27.139	26.815	26.488	26.158	25.825	25.489	25.149	24.806	24.459
400				27.53	27.212	26.892	26.569	26.244	25.916	25.585	25.251	24.914	24.573
420				27.597	27.283	26.967	26.649	26.328	26.005	25.679	25.35	25.018	24.684
440				27.663	27.353	27.041	26.726	26.41	26.091	25.77	25.446	25.12	24.791
460				27.729	27.421	27.112	26.802	26.489	26.175	25.858	25.539	25.218	24.895
480				27.792	27.488	27.183	26.876	26.567	26.257	25.944	25.63	25.314	24.995
500				27.855	27.554	27.252	26.949	26.643	26.337	26.029	25.719	25.407	25.093
550				28.007	27.714	27.419	27.124	26.827	26.529	26.231	25.931	25.629	25.327
600					27.866	27.579	27.291	27.002	26.712	26.422	26.131	25.838	25.546
650					28.013	27.732	27.45	27.169	26.886	26.603	26.32	26.036	25.752
700					28.154	27.879	27.603	27.328	27.052	26.776	26.5	26.224	25.948
750					28.29	28.02	27.75	27.481	27.211	26.942	26.672	26.403	26.133
800					28.421	28.156	27.892	27.628	27.364	27.1	26.837	26.574	26.311
850						28.288	28.028	27.769	27.511	27.252	26.995	26.737	26.48
900						28.415	28.16	27.906	27.652	27.399	27.146	26.894	26.642
950						28.538	28.288	28.038	27.789	27.54	27.292	27.045	26.798
1000						28.658	28.411	28.166	27.921	27.676	27.433	27.19	26.948
1100						28.887	28.648	28.409	28.172	27.936	27.701	27.466	27.233
1200							28.871	28.64	28.409	28.18	27.952	27.725	27.499
1300							29.083	28.858	28.634	28.411	28.189	27.968	27.749
1400							29.285	29.065	28.847	28.63	28.414	28.199	27.986
1500								29.263	29.05	28.838	28.627	28.418	28.21
1600								29.453	29.244	29.037	28.831	28.627	28.424
1700								29.635	29.43	29.227	29.026	28.826	28.628
1800									29.609	29.41	29.213	29.017	28.823
1900									29.781	29.586	29.393	29.201	29.01
2000									29.947	29.756	29.566	29.377	29.191

P (bar)	Temperature (°C) (Temperature (K))												
	5 (278.15)	10 (283.15)	15 (288.15)	20 (293.15)	24 (297.15)	26 (299.15)	28 (301.15)	30 (303.15)	32 (305.15)	34 (307.15)	36 (309.15)	38 (311.15)	40 (313.15)
1	0.0435	0.0427	0.0420	0.0412	0.0407	0.0404	0.0401	0.0399	0.0396	0.0393	0.0391	0.0388	0.0386
5	0.2233	0.2190	0.2148	0.2108	0.2077	0.2062	0.2047	0.2032	0.2018	0.2004	0.1990	0.1976	0.1962
10	0.4628	0.4527	0.4431	0.4340	0.4270	0.4236	0.4203	0.4170	0.4138	0.4106	0.4075	0.4045	0.4015
15	0.7218	0.7040	0.6873	0.6716	0.6597	0.6539	0.6483	0.6428	0.6374	0.6321	0.6269	0.6218	0.6168
20	1.0054	0.9770	0.9508	0.9265	0.9082	0.8994	0.8908	0.8825	0.8743	0.8664	0.8586	0.8510	0.8436
25	1.3208	1.2773	1.2379	1.2020	1.1753	1.1627	1.1503	1.1384	1.1268	1.1155	1.1045	1.0938	1.0834
30	1.6800	1.6135	1.5552	1.5032	1.4653	1.4474	1.4302	1.4136	1.3975	1.3819	1.3669	1.3523	1.3381
35	2.1044	2.0000	1.9125	1.8373	1.7837	1.7588	1.7349	1.7121	1.6902	1.6691	1.6488	1.6292	1.6103
40	20.368	2.4634	2.3266	2.2152	2.1388	2.1039	2.0709	2.0395	2.0097	1.9813	1.9541	1.9281	1.9032
45	20.498	3.0679	2.8294	2.6559	2.5436	2.4938	2.4474	2.4040	2.3632	2.3247	2.2883	2.2537	2.2208
50	20.619	19.737	3.5020	3.1958	3.0208	2.9468	2.8796	2.8180	2.7610	2.7082	2.6588	2.6124	2.5688
52	20.665	19.801	18.717	3.4563	3.2406	3.1523	3.0733	3.0016	2.9360	2.8755	2.8195	2.7672	2.7182
54	20.71	19.863	18.813	3.7573	3.4836	3.3765	3.2823	3.1982	3.1221	3.0526	2.9887	2.9295	2.8743
56	20.754	19.922	18.904	4.1214	3.7570	3.6240	3.5101	3.4102	3.3211	3.2408	3.1675	3.1002	3.0380
58	20.798	19.98	18.99	17.631	4.0731	3.9025	3.7615	3.6411	3.5357	3.4419	3.3575	3.2806	3.2100
60	20.84	20.036	19.072	17.783	4.4548	4.2238	4.0438	3.8955	3.7690	3.6584	3.5603	3.4719	3.3915
62	20.881	20.09	19.15	17.921	4.9560	4.6100	4.3685	4.1804	4.0255	3.8934	3.7782	3.6758	3.5838
64	20.922	20.143	19.225	18.047	16.631	5.1107	4.7563	4.5067	4.3118	4.1511	4.0141	3.8946	3.7884
66	20.962	20.195	19.296	18.163	16.868	15.817	5.2509	4.8932	4.6380	4.4377	4.2722	4.1309	4.0075
68	21.001	20.245	19.365	18.271	17.068	16.187	5.9853	5.3773	5.0207	4.7621	4.5578	4.3883	4.2434
69	21.02	20.269	19.399	18.323	17.158	16.335	14.925	5.6809	5.2419	4.9427	4.7133	4.5265	4.3687
70	21.039	20.293	19.432	18.373	17.243	16.467	15.269	6.0568	5.4910	5.1388	4.8790	4.6720	4.4995
71	21.058	20.317	19.464	18.422	17.324	16.587	15.522	6.5710	5.7779	5.3540	5.0565	4.8256	4.6364
72	21.077	20.341	19.496	18.469	17.400	16.697	15.728	7.5414	6.1201	5.5932	5.2480	4.9887	4.7802
73	21.095	20.364	19.527	18.515	17.473	16.799	15.904	14.266	6.5514	5.8635	5.4563	5.1625	4.9315
74	21.114	20.388	19.557	18.56	17.542	16.895	16.058	14.711	7.1573	6.1764	5.6851	5.3487	5.0914
75	21.132	20.41	19.588	18.604	17.609	16.984	16.196	15.022	8.3147	6.5507	5.9396	5.5496	5.2609
76	21.15	20.433	19.617	18.646	17.673	17.069	16.321	15.267	12.668	7.0221	6.2271	5.7680	5.4415
77	21.168	20.455	19.647	18.688	17.734	17.149	16.436	15.471	13.673	7.6694	6.5586	6.0074	5.6348
78	21.186	20.478	19.676	18.729	17.794	17.226	16.543	15.648	14.183	8.7175	6.9517	6.2728	5.8429
79	21.204	20.499	19.704	18.768	17.851	17.299	16.642	15.804	14.539	10.758	7.4353	6.5709	6.0684
80	21.221	20.521	19.732	18.807	17.907	17.368	16.736	15.945	14.818	12.417	8.0606	6.9108	6.3144

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))												
P (bar)	**5 (278.15)**	**10 (283.15)**	**15 (288.15)**	**20 (293.15)**	**24 (297.15)**	**26 (299.15)**	**28 (301.15)**	**30 (303.15)**	**32 (305.15)**	**34 (307.15)**	**36 (309.15)**	**38 (311.15)**	**40 (313.15)**
82	21.256	20.564	19.787	18.883	18.013	17.5	16.908	16.191	15.245	13.728	10.119	7.7742	6.8860
84	21.29	20.606	19.84	18.956	18.113	17.622	17.063	16.403	15.574	14.401	12.267	9.0382	7.6054
86	21.324	20.647	19.893	19.026	18.208	17.736	17.206	16.591	15.844	14.862	13.366	10.742	8.5423
88	21.357	20.687	19.943	19.093	18.298	17.844	17.337	16.759	16.075	15.217	14.032	12.165	9.7501
90	21.39	20.727	19.993	19.159	18.384	17.945	17.46	16.912	16.277	15.507	14.508	13.086	11.032
92	21.422	20.766	20.041	19.222	18.466	18.042	17.575	17.053	16.458	15.754	14.879	13.716	12.089
94	21.454	20.804	20.089	19.283	18.546	18.133	17.683	17.184	16.622	15.970	15.185	14.189	12.869
96	21.485	20.841	20.135	19.343	18.621	18.221	17.785	17.307	16.772	16.163	15.445	14.567	13.451
98	21.516	20.878	20.181	19.401	18.695	18.304	17.882	17.422	16.912	16.337	15.673	14.881	13.908
100	21.546	20.915	20.225	19.457	18.765	18.385	17.975	17.53	17.041	16.496	15.875	15.151	14.283
105	21.621	21.003	20.332	19.592	18.932	18.573	18.189	17.778	17.332	16.844	16.304	15.696	15
110	21.693	21.089	20.435	19.719	19.086	18.745	18.383	17.998	17.586	17.141	16.657	16.124	15.531
115	21.764	21.171	20.533	19.839	19.23	18.904	18.561	18.198	17.812	17.4	16.957	16.478	15.955
120	21.832	21.25	20.627	19.952	19.365	19.053	18.725	18.381	18.017	17.631	17.221	16.782	16.309
125	21.899	21.328	20.718	20.061	19.493	19.192	18.878	18.549	18.204	17.841	17.456	17.049	16.614
130	21.964	21.402	20.805	20.165	19.614	19.323	19.021	18.706	18.377	18.032	17.669	17.287	16.883
135	22.027	21.475	20.889	20.264	19.729	19.447	19.156	18.853	18.537	18.208	17.864	17.503	17.124
140	22.089	21.546	20.971	20.359	19.838	19.565	19.283	18.991	18.688	18.372	18.044	17.701	17.343
145	22.149	21.614	21.05	20.451	19.943	19.678	19.404	19.121	18.829	18.526	18.211	17.884	17.543
150	22.208	21.681	21.126	20.54	20.044	19.785	19.519	19.245	18.962	18.67	18.367	18.054	17.729
160	22.323	21.81	21.273	20.708	20.233	19.987	19.735	19.476	19.209	18.935	18.653	18.362	18.062
170	22.432	21.933	21.412	20.867	20.41	20.174	19.933	19.687	19.434	19.175	18.909	18.637	18.357
180	22.538	22.051	21.544	21.016	20.576	20.349	20.118	19.882	19.641	19.395	19.143	18.885	18.621
190	22.639	22.163	21.67	21.157	20.731	20.513	20.29	20.064	19.833	19.597	19.357	19.112	18.862
200	22.737	22.272	21.791	21.292	20.879	20.667	20.453	20.234	20.012	19.786	19.556	19.321	19.082
210	22.832	22.376	21.906	21.42	21.019	20.814	20.606	20.394	20.18	19.962	19.741	19.516	19.287
220	22.924	22.477	22.017	21.543	21.152	20.953	20.751	20.546	20.339	20.128	19.914	19.698	19.478
230	23.013	22.575	22.124	21.66	21.279	21.086	20.889	20.69	20.489	20.285	20.078	19.869	19.656
240	23.099	22.669	22.227	21.773	21.402	21.212	21.021	20.828	20.632	20.434	20.233	20.03	19.825
250	23.183	22.76	22.327	21.882	21.519	21.334	21.147	20.959	20.768	20.575	20.38	20.183	19.984
260	23.265	22.849	22.423	21.988	21.631	21.451	21.268	21.084	20.898	20.71	20.52	20.329	20.135

270	23.345	22.935	22.517	22.089	21.74	21.563	21.385	21.205	21.023	20.84	20.654	20.468	20.279
280	23.422	23.019	22.607	22.187	21.845	21.672	21.497	21.321	21.143	20.964	20.783	20.6	20.417
290	23.498	23.1	22.695	22.283	21.946	21.776	21.605	21.432	21.258	21.083	20.906	20.728	20.548
300	23.572	23.18	22.781	22.375	22.045	21.878	21.71	21.54	21.37	21.198	21.025	20.85	20.675
320	23.714	23.333	22.946	22.552	22.232	22.071	21.909	21.745	21.581	21.416	21.249	21.082	20.913
340	23.851	23.479	23.102	22.72	22.41	22.253	22.096	21.938	21.779	21.62	21.459	21.298	21.135
360	23.982	23.619	23.251	22.879	22.578	22.426	22.273	22.12	21.966	21.812	21.656	21.5	21.343
380	24.108	23.753	23.394	23.031	22.737	22.59	22.442	22.293	22.143	21.993	21.842	21.691	21.539
400	24.229	23.882	23.531	23.176	22.89	22.746	22.602	22.457	22.311	22.165	22.019	21.872	21.724
420	24.346	24.006	23.662	23.315	23.036	22.895	22.754	22.613	22.471	22.329	22.186	22.043	21.9
440	24.459	24.125	23.788	23.449	23.176	23.038	22.901	22.762	22.624	22.485	22.346	22.206	22.066
460	24.569	24.241	23.91	23.578	23.31	23.175	23.041	22.906	22.77	22.635	22.499	22.362	22.226
480	24.675	24.353	24.028	23.702	23.439	23.308	23.176	23.043	22.911	22.778	22.645	22.512	22.378
500	24.778	24.461	24.142	23.821	23.564	23.435	23.305	23.176	23.046	22.916	22.786	22.655	22.524
550	25.023	24.718	24.412	24.104	23.858	23.734	23.61	23.487	23.363	23.239	23.115	22.99	22.866
600	25.252	24.957	24.662	24.366	24.129	24.011	23.892	23.773	23.654	23.535	23.416	23.297	23.178
650	25.467	25.182	24.897	24.611	24.382	24.268	24.153	24.039	23.924	23.81	23.695	23.581	23.466
700	25.671	25.394	25.117	24.841	24.619	24.508	24.398	24.287	24.176	24.066	23.955	23.845	23.734
750	25.864	25.595	25.326	25.057	24.842	24.735	24.627	24.52	24.413	24.306	24.199	24.092	23.985
800	26.048	25.786	25.523	25.262	25.053	24.948	24.844	24.74	24.636	24.532	24.428	24.324	24.22
850	26.223	25.967	25.711	25.456	25.253	25.151	25.049	24.948	24.847	24.745	24.644	24.543	24.442
900	26.391	26.141	25.891	25.642	25.443	25.344	25.245	25.146	25.047	24.948	24.85	24.751	24.653
950	26.552	26.307	26.063	25.819	25.625	25.528	25.431	25.334	25.238	25.141	25.045	24.949	24.853
1000	26.707	26.467	26.227	25.989	25.799	25.704	25.609	25.514	25.42	25.326	25.232	25.138	25.044
1100	27	26.769	26.538	26.309	26.126	26.035	25.944	25.853	25.762	25.672	25.582	25.492	25.402
1200	27.274	27.05	26.827	26.606	26.429	26.342	26.254	26.166	26.079	25.992	25.905	25.818	25.732
1300	27.531	27.314	27.098	26.884	26.713	26.628	26.543	26.458	26.374	26.29	26.206	26.122	26.038
1400	27.773	27.563	27.353	27.145	26.979	26.897	26.814	26.732	26.65	26.569	26.487	26.406	26.325
1500	28.003	27.798	27.594	27.391	27.23	27.15	27.07	26.99	26.911	26.831	26.752	26.673	26.594
1600	28.222	28.022	27.823	27.625	27.468	27.39	27.312	27.234	27.157	27.079	27.002	26.925	26.849
1700	28.43	28.235	28.04	27.848	27.694	27.618	27.542	27.466	27.39	27.315	27.24	27.165	27.09
1800	28.63	28.438	28.248	28.06	27.91	27.835	27.761	27.687	27.613	27.539	27.466	27.393	27.32
1900	28.821	28.634	28.448	28.263	28.116	28.043	27.97	27.898	27.826	27.753	27.682	27.61	27.539
2000	29.005	28.821	28.639	28.458	28.314	28.242	28.171	28.1	28.029	27.959	27.888	27.818	27.748

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))												
P (bar)	**45 (318.15)**	**50 (323.15)**	**55 (328.15)**	**60 (333.15)**	**65 (338.15)**	**70 (343.15)**	**75 (348.15)**	**80 (353.15)**	**90 (363.15)**	**100 (373.15)**	**110 (383.15)**	**120 (393.15)**	**130 (403.15)**
1	0.0380	0.0374	0.0368	0.0362	0.0357	0.0352	0.0346	0.0342	0.0332	0.0323	0.0315	0.0307	0.0299
5	0.1929	0.1897	0.1867	0.1837	0.1808	0.1780	0.1753	0.1727	0.1678	0.1631	0.1586	0.1545	0.1505
10	0.3942	0.3872	0.3805	0.3741	0.3679	0.3619	0.3561	0.3506	0.3400	0.3300	0.3207	0.3120	0.3037
15	0.6048	0.5933	0.5823	0.5718	0.5617	0.5521	0.5428	0.5338	0.5169	0.5011	0.4864	0.4726	0.4597
20	0.8258	0.8089	0.7928	0.7775	0.7629	0.7490	0.7357	0.7229	0.6988	0.6765	0.6558	0.6365	0.6185
25	1.0585	1.0351	1.0129	0.9920	0.9722	0.9533	0.9353	0.9181	0.8860	0.8565	0.8292	0.8039	0.7803
30	1.3045	1.2732	1.2438	1.2162	1.1901	1.1655	1.1422	1.1200	1.0788	1.0412	1.0066	0.9747	0.9451
35	1.5659	1.5248	1.4866	1.4511	1.4178	1.3865	1.3570	1.3291	1.2775	1.2308	1.1882	1.1491	1.1130
40	1.8449	1.7918	1.7430	1.6979	1.6560	1.6169	1.5803	1.5458	1.4826	1.4258	1.3743	1.3273	1.2841
45	2.1449	2.0767	2.0148	1.9582	1.9061	1.8578	1.8129	1.7709	1.6944	1.6263	1.5650	1.5093	1.4585
50	2.4697	2.3823	2.3042	2.2336	2.1692	2.1101	2.0555	2.0049	1.9133	1.8326	1.7604	1.6954	1.6362
52	2.6078	2.5112	2.4255	2.3484	2.2785	2.2145	2.1556	2.1011	2.0030	1.9168	1.8400	1.7709	1.7083
54	2.7511	2.6443	2.5502	2.4661	2.3902	2.3210	2.2576	2.1990	2.0940	2.0020	1.9204	1.8472	1.7809
56	2.9001	2.7819	2.6786	2.5869	2.5045	2.4297	2.3614	2.2985	2.1862	2.0882	2.0016	1.9241	1.8541
58	3.0554	2.9244	2.8109	2.7108	2.6214	2.5407	2.4672	2.3997	2.2797	2.1755	2.0837	2.0017	1.9278
60	3.2176	3.0722	2.9474	2.8382	2.7412	2.6541	2.5750	2.5027	2.3746	2.2639	2.1666	2.0800	2.0021
62	3.3874	3.2257	3.0885	2.9692	2.8640	2.7699	2.6849	2.6075	2.4709	2.3533	2.2503	2.1590	2.0770
64	3.5657	3.3855	3.2343	3.1041	2.9899	2.8884	2.7971	2.7142	2.5685	2.4438	2.3350	2.2387	2.1525
66	3.7536	3.5521	3.3853	3.2430	3.1191	3.0096	2.9115	2.8228	2.6677	2.5354	2.4205	2.3191	2.2286
68	3.9521	3.7262	3.5418	3.3862	3.2518	3.1336	3.0283	2.9334	2.7683	2.6282	2.5069	2.4002	2.3052
69	4.0558	3.8163	3.6223	3.4595	3.3195	3.1967	3.0876	2.9895	2.8192	2.6750	2.5505	2.4411	2.3438
70	4.1628	3.9086	3.7044	3.5341	3.3881	3.2606	3.1476	3.0462	2.8704	2.7221	2.5942	2.4821	2.3824
71	4.2732	4.0031	3.7881	3.6098	3.4577	3.3253	3.2081	3.1033	2.9221	2.7696	2.6383	2.5233	2.4213
72	4.3874	4.1000	3.8735	3.6868	3.5283	3.3907	3.2694	3.1610	2.9742	2.8173	2.6825	2.5647	2.4603
73	4.5056	4.1995	3.9607	3.7651	3.5999	3.4570	3.3313	3.2192	3.0266	2.8653	2.7270	2.6063	2.4994
74	4.6281	4.3016	4.0497	3.8448	3.6725	3.5240	3.3938	3.2781	3.0795	2.9136	2.7717	2.6480	2.5387
75	4.7553	4.4066	4.1406	3.9259	3.7462	3.5920	3.4571	3.3374	3.1327	2.9622	2.8167	2.6900	2.5782
76	4.8876	4.5146	4.2336	4.0084	3.8210	3.6608	3.5211	3.3974	3.1864	3.0112	2.8619	2.7321	2.6178
77	5.0253	4.6258	4.3286	4.0925	3.8970	3.7305	3.5857	3.4579	3.2405	3.0604	2.9073	2.7745	2.6575
78	5.1691	4.7403	4.4258	4.1781	3.9741	3.8011	3.6511	3.5191	3.2950	3.1100	2.9530	2.8170	2.6974
79	5.3195	4.8584	4.5253	4.2652	4.0524	3.8726	3.7173	3.5808	3.3500	3.1599	2.9989	2.8597	2.7375
80	5.4772	4.9803	4.6273	4.3541	4.1319	3.9451	3.7842	3.6432	3.4054	3.2101	3.0450	2.9026	2.7777
82	5.8172	5.2366	4.8388	4.5371	4.2948	4.0930	3.9204	3.7699	3.5175	3.3114	3.1381	2.9890	2.8586

84	6.1964	5.5115	5.0613	4.7274	4.4631	4.2449	4.0597	3.8991	3.6314	3.4141	3.2322	3.0762	2.9401
86	6.6238	5.8075	5.2959	4.9258	4.6370	4.4012	4.2024	4.0310	3.7471	3.5181	3.3272	3.1641	3.0222
88	7.1106	6.1278	5.5439	5.1326	4.8169	4.5618	4.3485	4.1656	3.8646	3.6235	3.4233	3.2528	3.1049
90	7.6691	6.4758	5.8065	5.3486	5.0032	4.7271	4.4981	4.3031	3.9841	3.7302	3.5203	3.3423	3.1882
92	8.3094	6.8550	6.0852	5.5744	5.1960	4.8973	4.6515	4.4434	4.1055	3.8382	3.6184	3.4326	3.2722
94	9.0328	7.2690	6.3813	5.8107	5.3959	5.0724	4.8086	4.5868	4.2289	3.9477	3.7176	3.5237	3.3567
96	9.8155	7.7202	6.6962	6.0580	5.6031	5.2528	4.9697	4.7332	4.3542	4.0586	3.8177	3.6155	3.4419
98	10.598	8.2092	7.0310	6.3171	5.8179	5.4386	5.1348	4.8827	4.4816	4.1709	3.9189	3.7082	3.5277
100	11.321	8.7328	7.3864	6.5883	6.0407	5.6299	5.3040	5.0353	4.6111	4.2846	4.0212	3.8016	3.6142
105	12.742	10.124	8.3618	7.3216	6.6338	6.1336	5.7456	5.4312	4.9438	4.5752	4.2814	4.0386	3.8329
110	13.705	11.421	9.4275	8.1299	7.2791	6.6741	6.2144	5.8479	5.2896	4.8747	4.5480	4.2806	4.0553
115	14.403	12.471	10.494	8.9931	7.9720	7.2506	6.7101	6.2853	5.6485	5.1832	4.8211	4.5273	4.2815
120	14.945	13.286	11.464	9.8711	8.6996	7.8584	7.2311	6.7425	6.0202	5.5004	5.1005	4.7786	4.5112
125	15.388	13.929	12.291	10.714	9.4402	8.4888	7.7733	7.2177	6.4040	5.8260	5.3859	5.0345	4.7444
130	15.761	14.454	12.982	11.483	10.167	9.1286	8.3304	7.7075	6.7987	6.1594	5.6769	5.2946	4.9808
135	16.085	14.894	13.561	12.162	10.856	9.7625	8.8939	8.2073	7.2027	6.4998	5.9732	5.5586	5.2202
140	16.371	15.273	14.053	12.756	11.491	10.375	9.4543	8.7112	7.6137	6.8462	6.2741	5.8262	5.4624
145	16.627	15.605	14.477	13.273	12.066	10.955	10.002	9.2129	8.0292	7.1973	6.5790	6.0969	5.7070
150	16.859	15.9	14.849	13.726	12.582	11.495	10.528	9.7059	8.4459	7.5517	6.8871	6.3704	5.9539
160	17.268	16.407	15.476	14.485	13.46	12.446	11.495	10.644	9.2708	8.2638	7.5091	6.9230	6.4525
170	17.622	16.834	15.992	15.101	14.175	13.242	12.337	11.495	10.064	8.9686	8.1322	7.4792	6.9551
180	17.933	17.203	16.43	15.616	14.771	13.911	13.062	12.249	10.808	9.6526	8.7478	8.0335	7.4580
190	18.213	17.529	16.81	16.057	15.277	14.482	13.687	12.912	11.492	10.305	9.3481	8.5805	7.9575
200	18.466	17.821	17.146	16.444	15.717	14.975	14.229	13.495	12.115	10.919	9.9261	9.1150	8.4499
210	18.698	18.085	17.448	16.787	16.105	15.409	14.706	14.01	12.678	11.49	10.477	9.6329	8.9318
220	18.913	18.328	17.722	17.096	16.452	15.794	15.13	14.468	13.188	12.019	10.998	10.131	9.4005
230	19.113	18.552	17.973	17.376	16.765	16.141	15.511	14.88	13.649	12.506	11.488	10.607	9.8537
240	19.3	18.76	18.204	17.634	17.05	16.456	15.855	15.253	14.07	12.956	11.947	11.059	10.29
250	19.476	18.955	18.42	17.872	17.313	16.744	16.169	15.592	14.454	13.371	12.376	11.487	10.708
260	19.642	19.138	18.621	18.094	17.556	17.01	16.458	15.904	14.807	13.755	12.777	11.893	11.107
270	19.8	19.31	18.81	18.301	17.782	17.257	16.726	16.192	15.133	14.11	13.152	12.275	11.487
280	19.95	19.474	18.989	18.495	17.994	17.486	16.974	16.459	15.435	14.441	13.502	12.636	11.85
290	20.093	19.63	19.158	18.679	18.193	17.702	17.206	16.708	15.717	14.75	13.831	12.976	12.194
300	20.23	19.778	19.319	18.853	18.381	17.904	17.424	16.942	15.98	15.039	14.14	13.297	12.521
320	20.488	20.056	19.618	19.175	18.728	18.277	17.823	17.368	16.459	15.566	14.705	13.889	13.129
340	20.726	20.312	19.893	19.47	19.043	18.614	18.183	17.75	16.887	16.036	15.21	14.421	13.679
360	20.948	20.549	20.147	19.741	19.332	18.921	18.509	18.096	17.272	16.458	15.665	14.903	14.18
380	21.157	20.771	20.383	19.992	19.599	19.204	18.808	18.412	17.623	16.842	16.079	15.342	14.638

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))												
P (bar)	**45 (318.15)**	**50 (323.15)**	**55 (328.15)**	**60 (333.15)**	**65 (338.15)**	**70 (343.15)**	**75 (348.15)**	**80 (353.15)**	**90 (363.15)**	**100 (373.15)**	**110 (383.15)**	**120 (393.15)**	**130 (403.15)**
400	21.353	20.98	20.604	20.226	19.847	19.466	19.085	18.704	17.944	17.193	16.457	15.744	15.059
420	21.539	21.176	20.812	20.446	20.079	19.711	19.342	18.975	18.242	17.517	16.806	16.114	15.448
440	21.715	21.363	21.008	20.653	20.296	19.94	19.583	19.227	18.518	17.817	17.128	16.457	15.808
460	21.883	21.539	21.194	20.849	20.502	20.156	19.809	19.464	18.776	18.096	17.428	16.775	16.143
480	22.044	21.708	21.371	21.034	20.697	20.36	20.023	19.687	19.018	18.358	17.708	17.073	16.457
500	22.197	21.869	21.54	21.211	20.882	20.553	20.225	19.897	19.247	18.604	17.971	17.353	16.751
550	22.555	22.243	21.931	21.62	21.309	20.998	20.688	20.379	19.766	19.161	18.566	17.983	17.414
600	22.881	22.583	22.286	21.989	21.692	21.397	21.102	20.809	20.227	19.653	19.088	18.534	17.993
650	23.18	22.895	22.61	22.325	22.041	21.759	21.477	21.197	20.641	20.093	19.554	19.025	18.508
700	23.458	23.183	22.909	22.635	22.362	22.09	21.82	21.551	21.018	20.492	19.975	19.468	18.971
750	23.718	23.452	23.187	22.922	22.659	22.397	22.136	21.877	21.363	20.857	20.359	19.871	19.392
800	23.961	23.703	23.446	23.191	22.936	22.682	22.43	22.179	21.683	21.194	20.713	20.241	19.778
850	24.191	23.94	23.691	23.442	23.195	22.949	22.705	22.462	21.98	21.506	21.04	20.583	20.135
900	24.408	24.164	23.921	23.679	23.439	23.2	22.962	22.726	22.259	21.798	21.346	20.901	20.466
950	24.614	24.376	24.139	23.904	23.67	23.437	23.205	22.975	22.521	22.073	21.632	21.2	20.776
1000	24.811	24.578	24.347	24.117	23.888	23.661	23.436	23.211	22.768	22.331	21.901	21.48	21.066
1100	25.178	24.955	24.734	24.514	24.295	24.078	23.862	23.648	23.224	22.807	22.397	21.995	21.6
1200	25.516	25.302	25.089	24.878	24.668	24.459	24.252	24.046	23.639	23.239	22.846	22.459	22.08
1300	25.83	25.623	25.418	25.214	25.011	24.81	24.61	24.412	24.02	23.635	23.255	22.883	22.518
1400	26.123	25.923	25.724	25.527	25.331	25.136	24.943	24.751	24.372	23.999	23.633	23.273	22.92
1500	26.399	26.204	26.011	25.819	25.629	25.44	25.253	25.067	24.7	24.339	23.984	23.635	23.292
1600	26.658	26.469	26.281	26.095	25.91	25.726	25.544	25.364	25.007	24.656	24.311	23.972	23.639
1700	26.904	26.72	26.537	26.355	26.175	25.996	25.819	25.643	25.296	24.954	24.618	24.288	23.964
1800	27.138	26.958	26.779	26.602	26.426	26.252	26.079	25.907	25.568	25.235	24.908	24.586	24.27
1900	27.361	27.185	27.01	26.837	26.665	26.495	26.326	26.158	25.827	25.502	25.182	24.867	24.559
2000	27.574	27.402	27.231	27.061	26.893	26.726	26.561	26.397	26.073	25.755	25.442	25.135	24.833

P (bar)	Temperature (°C) (Temperature (K)) 140 (413.15)	150 (423.15)	160 (433.15)	170 (443.15)	180 (453.15)	190 (463.15)	200 (473.15)	220 (493.15)	240 (513.15)	260 (533.15)	280 (553.15)	300 (573.15)	320 (593.15)
1	0.0292	0.0285	0.0278	0.0272	0.0266	0.0260	0.0254	0.0244	0.0235	0.0226	0.0218	0.0210	0.0203
5	0.1467	0.1432	0.1398	0.1365	0.1335	0.1305	0.1277	0.1224	0.1176	0.1131	0.1090	0.1051	0.1015
10	0.2959	0.2885	0.2814	0.2748	0.2684	0.2624	0.2566	0.2458	0.2359	0.2268	0.2184	0.2106	0.2033
15	0.4475	0.4359	0.4250	0.4147	0.4049	0.3956	0.3867	0.3701	0.3550	0.3411	0.3283	0.3164	0.3054
20	0.6015	0.5856	0.5706	0.5563	0.5429	0.5301	0.5180	0.4954	0.4748	0.4560	0.4386	0.4226	0.4078
25	0.7582	0.7375	0.7181	0.6997	0.6824	0.6660	0.6504	0.6216	0.5953	0.5714	0.5494	0.5291	0.5104
30	0.9175	0.8917	0.8676	0.8449	0.8235	0.8032	0.7841	0.7487	0.7166	0.6874	0.6606	0.6360	0.6132
35	1.0795	1.0483	1.0191	0.9918	0.9661	0.9418	0.9190	0.8767	0.8386	0.8039	0.7722	0.7431	0.7163
40	1.2442	1.2072	1.1727	1.1404	1.1102	1.0818	1.0550	1.0056	0.9612	0.9210	0.8842	0.8506	0.8196
45	1.4117	1.3685	1.3283	1.2909	1.2559	1.2231	1.1922	1.1355	1.0846	1.0385	0.9966	0.9583	0.9230
50	1.5820	1.5322	1.4860	1.4432	1.4032	1.3657	1.3306	1.2662	1.2086	1.1566	1.1094	1.0663	1.0267
52	1.6510	1.5984	1.5497	1.5046	1.4625	1.4231	1.3862	1.3187	1.2584	1.2040	1.1546	1.1096	1.0682
54	1.7204	1.6649	1.6137	1.5663	1.5221	1.4808	1.4421	1.3714	1.3083	1.2514	1.1999	1.1529	1.1098
56	1.7903	1.7319	1.6781	1.6283	1.5819	1.5386	1.4981	1.4242	1.3583	1.2990	1.2452	1.1963	1.1514
58	1.8607	1.7993	1.7428	1.6905	1.6420	1.5967	1.5543	1.4771	1.4083	1.3465	1.2906	1.2397	1.1930
60	1.9315	1.8671	1.8078	1.7531	1.7023	1.6550	1.6107	1.5302	1.4585	1.3942	1.3360	1.2831	1.2346
62	2.0029	1.9352	1.8732	1.8159	1.7629	1.7135	1.6673	1.5834	1.5088	1.4420	1.3815	1.3266	1.2763
64	2.0747	2.0038	1.9389	1.8791	1.8237	1.7722	1.7241	1.6367	1.5592	1.4898	1.4271	1.3701	1.3180
66	2.1470	2.0728	2.0050	1.9425	1.8848	1.8311	1.7810	1.6902	1.6097	1.5377	1.4727	1.4136	1.3597
68	2.2197	2.1422	2.0713	2.0062	1.9461	1.8902	1.8382	1.7438	1.6603	1.5856	1.5183	1.4572	1.4014
69	2.2563	2.1770	2.1047	2.0382	1.9768	1.9198	1.8668	1.7707	1.6856	1.6096	1.5412	1.4790	1.4223
70	2.2930	2.2120	2.1381	2.0702	2.0076	1.9495	1.8955	1.7975	1.7110	1.6336	1.5640	1.5008	1.4432
71	2.3298	2.2470	2.1716	2.1023	2.0385	1.9793	1.9242	1.8245	1.7363	1.6577	1.5869	1.5226	1.4640
72	2.3668	2.2822	2.2051	2.1345	2.0694	2.0091	1.9529	1.8514	1.7617	1.6817	1.6097	1.5445	1.4849
73	2.4038	2.3174	2.2388	2.1668	2.1004	2.0389	1.9817	1.8784	1.7872	1.7058	1.6326	1.5663	1.5058
74	2.4410	2.3528	2.2726	2.1991	2.1314	2.0688	2.0106	1.9054	1.8126	1.7299	1.6555	1.5882	1.5267
75	2.4783	2.3882	2.3064	2.2315	2.1625	2.0987	2.0395	1.9324	1.8381	1.7540	1.6784	1.6100	1.5476
76	2.5157	2.4238	2.3403	2.2639	2.1937	2.1287	2.0684	1.9595	1.8636	1.7781	1.7014	1.6319	1.5685
77	2.5533	2.4595	2.3743	2.2965	2.2249	2.1588	2.0974	1.9866	1.8891	1.8023	1.7243	1.6537	1.5895
78	2.5910	2.4952	2.4084	2.3291	2.2562	2.1889	2.1264	2.0137	1.9146	1.8264	1.7472	1.6756	1.6104
79	2.6288	2.5311	2.4426	2.3618	2.2875	2.2190	2.1554	2.0409	1.9402	1.8506	1.7702	1.6975	1.6313
80	2.6667	2.5671	2.4768	2.3945	2.3189	2.2492	2.1845	2.0681	1.9657	1.8748	1.7932	1.7194	1.6522

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))												
P (bar)	**140 (413.15)**	**150 (423.15)**	**160 (433.15)**	**170 (443.15)**	**180 (453.15)**	**190 (463.15)**	**200 (473.15)**	**220 (493.15)**	**240 (513.15)**	**260 (533.15)**	**280 (553.15)**	**300 (573.15)**	**320 (593.15)**
82	2.7429	2.6393	2.5456	2.4602	2.3819	2.3097	2.2429	2.1226	2.0170	1.9232	1.8391	1.7632	1.6941
84	2.8196	2.7119	2.6147	2.5262	2.4451	2.3705	2.3014	2.1772	2.0683	1.9717	1.8851	1.8070	1.7360
86	2.8969	2.7850	2.6841	2.5924	2.5086	2.4314	2.3600	2.2319	2.1196	2.0202	1.9312	1.8509	1.7779
88	2.9746	2.8584	2.7539	2.6590	2.5723	2.4925	2.4189	2.2867	2.1711	2.0688	1.9773	1.8947	1.8198
90	3.0528	2.9323	2.8240	2.7258	2.6362	2.5538	2.4778	2.3416	2.2227	2.1174	2.0234	1.9387	1.8617
92	3.1315	3.0065	2.8944	2.7929	2.7003	2.6153	2.5370	2.3967	2.2743	2.1661	2.0696	1.9826	1.9037
94	3.2107	3.0812	2.9651	2.8602	2.7647	2.6770	2.5963	2.4519	2.3260	2.2149	2.1158	2.0265	1.9457
96	3.2904	3.1562	3.0362	2.9278	2.8292	2.7389	2.6557	2.5071	2.3778	2.2637	2.1620	2.0705	1.9876
98	3.3706	3.2317	3.1076	2.9957	2.8940	2.8010	2.7153	2.5625	2.4297	2.3126	2.2083	2.1145	2.0296
100	3.4512	3.3075	3.1793	3.0639	2.9590	2.8632	2.7751	2.6180	2.4816	2.3615	2.2546	2.1585	2.0716
105	3.6550	3.4988	3.3600	3.2354	3.1225	3.0196	2.9251	2.7572	2.6117	2.4840	2.3704	2.2686	2.1766
110	3.8617	3.6925	3.5426	3.4084	3.2873	3.1770	3.0760	2.8970	2.7423	2.6067	2.4865	2.3789	2.2817
115	4.0713	3.8884	3.7270	3.5830	3.4533	3.3355	3.2278	3.0373	2.8732	2.7298	2.6027	2.4892	2.3868
120	4.2837	4.0866	3.9132	3.7590	3.6204	3.4949	3.3804	3.1782	3.0046	2.8530	2.7191	2.5995	2.4919
125	4.4988	4.2869	4.1011	3.9364	3.7887	3.6552	3.5337	3.3196	3.1362	2.9765	2.8356	2.7100	2.5970
130	4.7164	4.4891	4.2907	4.1151	3.9581	3.8164	3.6877	3.4615	3.2681	3.1001	2.9522	2.8204	2.7021
135	4.9363	4.6933	4.4817	4.2949	4.1284	3.9784	3.8423	3.6037	3.4004	3.2239	3.0688	2.9309	2.8071
140	5.1585	4.8991	4.6740	4.4759	4.2996	4.1411	3.9975	3.7464	3.5328	3.3479	3.1855	3.0414	2.9122
145	5.3826	5.1066	4.8677	4.6579	4.4716	4.3045	4.1533	3.8894	3.6654	3.4719	3.3023	3.1518	3.0171
150	5.6084	5.3154	5.0624	4.8408	4.6443	4.4684	4.3095	4.0326	3.7982	3.5960	3.4190	3.2623	3.1220
160	6.0642	5.7364	5.4546	5.2087	4.9915	4.7976	4.6230	4.3198	4.0641	3.8443	3.6525	3.4829	3.3316
170	6.5236	6.1605	5.8494	5.5788	5.3404	5.1282	4.9375	4.6075	4.3302	4.0926	3.8857	3.7032	3.5406
180	6.9841	6.5858	6.2453	5.9498	5.6900	5.4593	5.2524	4.8953	4.5962	4.3405	4.1184	3.9230	3.7491
190	7.4430	7.0105	6.6409	6.3206	6.0395	5.7902	5.5671	5.1827	4.8617	4.5879	4.3506	4.1421	3.9569
200	7.8977	7.4325	7.0347	6.6901	6.3880	6.1203	5.8809	5.4694	5.1264	4.8345	4.5819	4.3604	4.1638
210	8.3456	7.8499	7.4253	7.0572	6.7345	6.4487	6.1933	5.7549	5.3901	5.0801	4.8123	4.5777	4.3698
220	8.7845	8.2609	7.8111	7.4206	7.0781	6.7747	6.5037	6.0387	5.6523	5.3244	5.0414	4.7938	4.5747
230	9.2125	8.6640	8.1910	7.7794	7.4179	7.0976	6.8114	6.3204	5.9128	5.5672	5.2692	5.0088	4.7784
240	9.6279	9.0577	8.5637	8.1326	7.7532	7.4167	7.1159	6.5997	6.1712	5.8082	5.4955	5.2223	4.9809
250	10.03	9.4410	8.9284	8.4794	8.0833	7.7315	7.4167	6.8762	6.4274	6.0473	5.7200	5.4343	5.1819
260	10.417	9.8130	9.2841	8.8190	8.4076	8.0414	7.7133	7.1495	6.6810	6.2842	5.9427	5.6446	5.3815

270	10.789	10.173	9.6303	9.1508	8.7254	8.3459	8.0054	7.4193	6.9318	6.5188	6.1633	5.8532	5.5794
280	11.146	10.521	9.9665	9.4745	9.0365	8.6447	8.2925	7.6853	7.1796	6.7509	6.3818	6.0598	5.7757
290	11.488	10.856	10.292	9.7896	9.3403	8.9374	8.5744	7.9473	7.4242	6.9804	6.5981	6.2645	5.9702
300	11.816	11.179	10.608	10.096	9.6368	9.2238	8.8509	8.2051	7.6654	7.2070	6.8119	6.4671	6.1629
320	12.428	11.788	11.208	10.682	10.207	9.7768	9.3866	8.7075	8.1372	7.6514	7.2321	6.8658	6.5424
340	12.988	12.351	11.766	11.232	10.746	10.303	9.8988	9.1913	8.5939	8.0834	7.6416	7.2552	6.9138
360	13.502	12.87	12.286	11.748	11.255	10.802	10.387	9.6560	9.0351	8.5023	8.0401	7.6350	7.2767
380	13.973	13.35	12.77	12.231	11.734	11.275	10.852	10.102	9.4605	8.9079	8.4272	8.0049	7.6308
400	14.408	13.795	13.22	12.683	12.185	11.722	11.293	10.528	9.8700	9.3002	8.8027	8.3647	7.9761
420	14.811	14.208	13.64	13.107	12.609	12.144	11.712	10.936	10.264	9.6790	9.1666	8.7144	8.3123
440	15.186	14.593	14.033	13.505	13.009	12.544	12.11	11.326	10.642	10.045	9.5191	9.0540	8.6396
460	15.535	14.954	14.401	13.879	13.386	12.922	12.488	11.698	11.006	10.397	9.8602	9.3835	8.9579
480	15.862	15.291	14.747	14.231	13.742	13.281	12.846	12.054	11.355	10.737	10.19	9.7032	9.2674
500	16.169	15.609	15.073	14.563	14.079	13.621	13.188	12.394	11.69	11.065	10.509	10.013	9.5682
550	16.861	16.327	15.812	15.319	14.848	14.398	13.971	13.181	12.47	11.834	11.262	10.748	10.284
600	17.467	16.955	16.461	15.985	15.527	15.088	14.669	13.887	13.178	12.535	11.954	11.427	10.949
650	18.004	17.513	17.038	16.577	16.133	15.706	15.296	14.525	13.821	13.178	12.592	12.057	11.569
700	18.487	18.014	17.555	17.11	16.679	16.263	15.862	15.106	14.409	13.768	13.181	12.642	12.147
750	18.925	18.469	18.025	17.594	17.175	16.77	16.379	15.636	14.948	14.313	13.726	13.186	12.687
800	19.326	18.885	18.454	18.036	17.629	17.234	16.852	16.124	15.446	14.817	14.233	13.693	13.192
850	19.696	19.268	18.85	18.442	18.046	17.661	17.288	16.575	15.908	15.285	14.706	14.167	13.666
900	20.04	19.623	19.216	18.82	18.433	18.057	17.692	16.993	16.337	15.722	15.148	14.611	14.111
950	20.36	19.954	19.558	19.171	18.794	18.426	18.069	17.384	16.738	16.131	15.562	15.029	14.531
1000	20.661	20.265	19.878	19.499	19.131	18.771	18.421	17.749	17.114	16.515	15.952	15.424	14.927
1100	21.212	20.833	20.463	20.1	19.746	19.401	19.064	18.416	17.801	17.219	16.668	16.149	15.659
1200	21.708	21.344	20.987	20.639	20.298	19.965	19.639	19.012	18.416	17.849	17.312	16.802	16.32
1300	22.159	21.808	21.464	21.127	20.797	20.475	20.16	19.552	18.972	18.421	17.895	17.396	16.922
1400	22.573	22.233	21.9	21.574	21.254	20.942	20.636	20.045	19.481	18.942	18.429	17.939	17.473
1500	22.956	22.626	22.303	21.986	21.676	21.372	21.075	20.499	19.949	19.423	18.92	18.44	17.982
1600	23.312	22.992	22.677	22.369	22.067	21.771	21.481	20.92	20.382	19.868	19.375	18.905	18.454
1700	23.646	23.333	23.027	22.727	22.432	22.143	21.861	21.312	20.786	20.282	19.8	19.337	18.894
1800	23.959	23.655	23.356	23.062	22.775	22.493	22.216	21.68	21.165	20.671	20.197	19.743	19.307
1900	24.255	23.958	23.666	23.379	23.097	22.822	22.551	22.026	21.521	21.036	20.571	20.124	19.695
2000	24.536	24.245	23.959	23.678	23.403	23.133	22.867	22.352	21.857	21.381	20.924	20.484	20.061

(continued)

TABLE A.3—*Continued*

P (bar)	Temperature (°C) (Temperature (K))											
	340 (613.15)	360 (633.15)	380 (653.15)	400 (673.15)	450 (723.15)	500 (773.15)	550 (823.15)	600 (873.15)	650 (923.15)	700 (973.15)	750 (1023.15)	800 (1073.15)
1	0.0196	0.0190	0.0184	0.0179	0.0166	0.0156	0.0146	0.0138	0.0130	0.0124	0.0118	0.0112
5	0.0982	0.0951	0.0921	0.0894	0.0832	0.0778	0.0730	0.0688	0.0651	0.0617	0.0587	0.0560
10	0.1966	0.1903	0.1844	0.1788	0.1663	0.1555	0.1460	0.1375	0.1301	0.1234	0.1173	0.1118
15	0.2952	0.2856	0.2767	0.2683	0.2494	0.2331	0.2188	0.2062	0.1949	0.1849	0.1758	0.1676
20	0.3940	0.3811	0.3691	0.3579	0.3326	0.3107	0.2915	0.2747	0.2597	0.2462	0.2341	0.2232
25	0.4930	0.4768	0.4616	0.4474	0.4157	0.3882	0.3642	0.3431	0.3243	0.3075	0.2924	0.2787
30	0.5921	0.5725	0.5542	0.5371	0.4987	0.4656	0.4368	0.4114	0.3888	0.3686	0.3505	0.3340
35	0.6914	0.6683	0.6468	0.6267	0.5817	0.5430	0.5092	0.4795	0.4532	0.4296	0.4084	0.3893
40	0.7909	0.7643	0.7395	0.7164	0.6647	0.6203	0.5816	0.5476	0.5174	0.4905	0.4663	0.4444
45	0.8905	0.8603	0.8322	0.8061	0.7476	0.6975	0.6538	0.6155	0.5816	0.5513	0.5240	0.4994
50	0.9902	0.9564	0.9250	0.8958	0.8305	0.7746	0.7260	0.6833	0.6456	0.6119	0.5816	0.5543
52	1.0301	0.9949	0.9621	0.9316	0.8636	0.8054	0.7548	0.7104	0.6711	0.6361	0.6046	0.5762
54	1.0701	1.0334	0.9993	0.9675	0.8968	0.8362	0.7836	0.7375	0.6967	0.6603	0.6276	0.5981
56	1.1101	1.0718	1.0364	1.0034	0.9299	0.8670	0.8124	0.7645	0.7222	0.6845	0.6506	0.6199
58	1.1500	1.1103	1.0735	1.0392	0.9630	0.8977	0.8412	0.7916	0.7477	0.7086	0.6735	0.6418
60	1.1900	1.1488	1.1106	1.0751	0.9961	0.9285	0.8699	0.8186	0.7732	0.7327	0.6964	0.6636
62	1.2301	1.1874	1.1478	1.1110	1.0292	0.9592	0.8987	0.8456	0.7987	0.7568	0.7193	0.6854
64	1.2701	1.2259	1.1849	1.1468	1.0622	0.9900	0.9274	0.8726	0.8241	0.7809	0.7422	0.7072
66	1.3101	1.2644	1.2221	1.1827	1.0953	1.0207	0.9561	0.8995	0.8495	0.8050	0.7650	0.7290
68	1.3502	1.3029	1.2592	1.2185	1.1283	1.0513	0.9847	0.9264	0.8749	0.8290	0.7879	0.7507
69	1.3702	1.3222	1.2778	1.2365	1.1448	1.0667	0.9991	0.9399	0.8876	0.8411	0.7993	0.7616
70	1.3902	1.3415	1.2963	1.2544	1.1614	1.0820	1.0134	0.9533	0.9003	0.8531	0.8107	0.7725
71	1.4103	1.3607	1.3149	1.2723	1.1779	1.0973	1.0277	0.9668	0.9130	0.8651	0.8221	0.7833
72	1.4303	1.3800	1.3335	1.2902	1.1944	1.1127	1.0420	0.9802	0.9257	0.8771	0.8335	0.7942
73	1.4504	1.3993	1.3520	1.3082	1.2109	1.1280	1.0563	0.9937	0.9383	0.8891	0.8449	0.8050
74	1.4704	1.4186	1.3706	1.3261	1.2274	1.1433	1.0706	1.0071	0.9510	0.9011	0.8563	0.8159
75	1.4905	1.4378	1.3892	1.3440	1.2439	1.1586	1.0849	1.0205	0.9637	0.9130	0.8676	0.8267
76	1.5105	1.4571	1.4077	1.3619	1.2604	1.1739	1.0992	1.0339	0.9763	0.9250	0.8790	0.8375
77	1.5306	1.4764	1.4263	1.3798	1.2769	1.1892	1.1135	1.0474	0.9890	0.9370	0.8904	0.8484
78	1.5506	1.4957	1.4449	1.3977	1.2934	1.2045	1.1278	1.0608	1.0016	0.9490	0.9018	0.8592
79	1.5707	1.5150	1.4634	1.4156	1.3098	1.2198	1.1421	1.0742	1.0142	0.9609	0.9131	0.8700
80	1.5908	1.5342	1.4820	1.4336	1.3263	1.2351	1.1564	1.0876	1.0269	0.9729	0.9245	0.8808
82	1.6309	1.5728	1.5191	1.4694	1.3593	1.2657	1.1849	1.1143	1.0521	0.9968	0.9472	0.9024

84	1.6711	1.6114	1.5563	1.5052	1.3922	1.2962	1.2134	1.1411	1.0773	1.0206	0.9698	0.9240
86	1.7112	1.6499	1.5934	1.5410	1.4251	1.3267	1.2419	1.1678	1.1026	1.0445	0.9925	0.9456
88	1.7514	1.6885	1.6305	1.5768	1.4580	1.3572	1.2704	1.1946	1.1277	1.0683	1.0151	0.9671
90	1.7915	1.7271	1.6676	1.6125	1.4909	1.3877	1.2988	1.2213	1.1529	1.0921	1.0377	0.9886
92	1.8317	1.7656	1.7047	1.6483	1.5238	1.4182	1.3272	1.2479	1.1780	1.1159	1.0603	1.0101
94	1.8719	1.8042	1.7418	1.6841	1.5567	1.4487	1.3557	1.2746	1.2032	1.1397	1.0828	1.0316
96	1.9120	1.8427	1.7789	1.7198	1.5895	1.4791	1.3840	1.3012	1.2282	1.1634	1.1054	1.0531
98	1.9522	1.8813	1.8160	1.7555	1.6223	1.5095	1.4124	1.3278	1.2533	1.1871	1.1279	1.0745
100	1.9924	1.9198	1.8530	1.7913	1.6551	1.5399	1.4407	1.3544	1.2784	1.2108	1.1504	1.0959
105	2.0929	2.0162	1.9457	1.8805	1.7371	1.6157	1.5115	1.4208	1.3409	1.2700	1.2065	1.1494
110	2.1933	2.1125	2.0383	1.9697	1.8189	1.6915	1.5821	1.4870	1.4033	1.3290	1.2626	1.2027
115	2.2938	2.2088	2.1308	2.0588	1.9006	1.7671	1.6526	1.5530	1.4655	1.3879	1.3184	1.2559
120	2.3942	2.3050	2.2232	2.1478	1.9821	1.8426	1.7229	1.6190	1.5276	1.4466	1.3742	1.3090
125	2.4946	2.4012	2.3156	2.2367	2.0636	1.9179	1.7931	1.6847	1.5896	1.5052	1.4298	1.3620
130	2.5949	2.4973	2.4078	2.3254	2.1449	1.9931	1.8631	1.7504	1.6514	1.5636	1.4853	1.4148
135	2.6952	2.5933	2.5000	2.4141	2.2261	2.0681	1.9330	1.8158	1.7130	1.6220	1.5406	1.4674
140	2.7954	2.6892	2.5920	2.5026	2.3071	2.1430	2.0027	1.8812	1.7745	1.6801	1.5958	1.5200
145	2.8955	2.7850	2.6839	2.5910	2.3879	2.2177	2.0723	1.9463	1.8359	1.7381	1.6509	1.5724
150	2.9956	2.8807	2.7757	2.6793	2.4687	2.2922	2.1417	2.0113	1.8971	1.7960	1.7058	1.6247
160	3.1953	3.0717	2.9589	2.8553	2.6296	2.4409	2.2800	2.1409	2.0191	1.9113	1.8152	1.7289
170	3.3945	3.2621	3.1414	3.0307	2.7899	2.5888	2.4177	2.2698	2.1404	2.0261	1.9241	1.8325
180	3.5930	3.4518	3.3232	3.2054	2.9494	2.7360	2.5547	2.3981	2.2612	2.1402	2.0324	1.9357
190	3.7908	3.6408	3.5043	3.3794	3.1082	2.8826	2.6910	2.5257	2.3813	2.2538	2.1402	2.0382
200	3.9878	3.8289	3.6845	3.5525	3.2662	3.0283	2.8265	2.6526	2.5007	2.3667	2.2474	2.1403
210	4.1839	4.0162	3.8639	3.7248	3.4234	3.1733	2.9614	2.7789	2.6196	2.4791	2.3540	2.2418
220	4.3789	4.2024	4.0423	3.8961	3.5798	3.3175	3.0955	2.9044	2.7378	2.5908	2.4601	2.3428
230	4.5728	4.3876	4.2197	4.0665	3.7352	3.4609	3.2289	3.0293	2.8553	2.7020	2.5656	2.4433
240	4.7655	4.5717	4.3960	4.2358	3.8898	3.6035	3.3615	3.1534	2.9722	2.8125	2.6705	2.5432
250	4.9569	4.7545	4.5712	4.4041	4.0434	3.7451	3.4933	3.2769	3.0884	2.9224	2.7748	2.6426
260	5.1469	4.9361	4.7452	4.5713	4.1960	3.8860	3.6243	3.3996	3.2039	3.0317	2.8786	2.7414
270	5.3355	5.1163	4.9180	4.7372	4.3475	4.0259	3.7545	3.5215	3.3188	3.1404	2.9818	2.8398
280	5.5226	5.2952	5.0894	4.9020	4.4981	4.1649	3.8839	3.6427	3.4330	3.2484	3.0844	2.9375
290	5.7080	5.4726	5.2595	5.0655	4.6476	4.3029	4.0124	3.7632	3.5465	3.3558	3.1864	3.0348
300	5.8919	5.6484	5.4282	5.2278	4.7960	4.4401	4.1401	3.8829	3.6593	3.4626	3.2879	3.1315
320	6.2543	5.9955	5.7614	5.5483	5.0894	4.7114	4.3930	4.1201	3.8828	3.6743	3.4890	3.3232
340	6.6094	6.3359	6.0885	5.8633	5.3783	4.9787	4.6423	4.3541	4.1036	3.8834	3.6878	3.5128
360	6.9570	6.6695	6.4094	6.1725	5.6623	5.2420	4.8882	4.5849	4.3215	4.0899	3.8843	3.7003
380	7.2967	6.9961	6.7239	6.4759	5.9416	5.5012	5.1304	4.8126	4.5365	4.2938	4.0784	3.8855

(continued)

TABLE A.3—*Continued*

	Temperature (°C) (Temperature (K))											
P (bar)	**340 (613.15)**	**360 (633.15)**	**380 (653.15)**	**400 (673.15)**	**450 (723.15)**	**500 (773.15)**	**550 (823.15)**	**600 (873.15)**	**650 (923.15)**	**700 (973.15)**	**750 (1023.15)**	**800 (1073.15)**
400	7.6285	7.3155	7.0318	6.7733	6.2158	5.7562	5.3690	5.0371	4.7487	4.4952	4.2701	4.0686
420	7.9522	7.6276	7.3331	7.0646	6.4851	6.0069	5.6039	5.2584	4.9580	4.6939	4.4595	4.2496
440	8.2679	7.9324	7.6278	7.3498	6.7493	6.2534	5.8351	5.4764	5.1644	4.8901	4.6465	4.4284
460	8.5755	8.2299	7.9158	7.6289	7.0085	6.4956	6.0626	5.6911	5.3680	5.0837	4.8312	4.6050
480	8.8751	8.5201	8.1972	7.9019	7.2627	6.7335	6.2864	5.9026	5.5686	5.2747	5.0135	4.7795
500	9.1670	8.8033	8.4720	8.1689	7.5118	6.9671	6.5066	6.1109	5.7664	5.4630	5.1935	4.9519
550	9.8632	9.4807	9.1312	8.8105	8.1131	7.5328	7.0410	6.6175	6.2483	5.9228	5.6332	5.3736
600	10.514	10.116	9.7519	9.4165	8.6844	8.0729	7.5530	7.1045	6.7127	6.3668	6.0587	5.7822
650	11.123	10.713	10.336	9.9888	9.2272	8.5882	8.0434	7.5722	7.1599	6.7954	6.4703	6.1781
700	11.692	11.274	10.887	10.53	9.7429	9.0801	8.5131	8.0216	7.5907	7.2090	6.8682	6.5615
750	12.226	11.801	11.407	11.041	10.233	9.5497	8.9631	8.4534	8.0055	7.6083	7.2530	6.9329
800	12.728	12.297	11.897	11.525	10.7	9.9984	9.3945	8.8684	8.4052	7.9937	7.6252	7.2927
850	13.199	12.766	12.361	11.984	11.144	10.428	9.8083	9.2675	8.7905	8.3659	7.9852	7.6413
900	13.644	13.208	12.801	12.42	11.568	10.838	10.206	9.6516	9.1620	8.7256	8.3336	7.9792
950	14.064	13.627	13.218	12.834	11.973	11.232	10.587	10.021	9.5205	9.0732	8.6709	8.3068
1000	14.461	14.024	13.614	13.228	12.36	11.609	10.954	10.378	9.8667	9.4095	8.9977	8.6245
1100	15.197	14.761	14.35	13.962	13.084	12.319	11.647	11.054	10.525	10.05	9.6216	9.2323
1200	15.863	15.43	15.021	14.633	13.751	12.976	12.292	11.684	11.141	10.652	10.209	9.8060
1300	16.471	16.043	15.636	15.25	14.366	13.586	12.893	12.274	11.719	11.218	10.764	10.349
1400	17.029	16.606	16.203	15.819	14.937	14.154	13.455	12.829	12.264	11.753	11.288	10.863
1500	17.545	17.127	16.729	16.348	15.47	14.685	13.983	13.35	12.779	12.259	11.786	11.352
1600	18.023	17.611	17.217	16.841	15.968	15.184	14.479	13.843	13.265	12.74	12.259	11.817
1700	18.47	18.064	17.674	17.301	16.435	15.654	14.948	14.309	13.727	13.196	12.709	12.261
1800	18.889	18.488	18.103	17.734	16.874	16.097	15.392	14.751	14.166	13.631	13.139	12.686
1900	19.283	18.887	18.507	18.142	17.29	16.516	15.813	15.171	14.584	14.045	13.549	13.092
2000	19.655	19.265	18.889	18.528	17.683	16.914	16.213	15.571	14.983	14.442	13.943	13.481

Note: Density is given in moles/liter. The densities as well as the saturation properties of carbon dioxide were obtained from Chemistry Webbook, NIST (http://webbook.nist.gov/chemistry/-fluid/, July 2005).

Appendix B
List of Solutes by Molecular Formula

Formula	MW	Solutes	Data Table No.
$AsHCuO_4$	203.47	Copper(II) hydrogen arsenate	C-190
CHI_3	393.73	Iodoform	T-68
		Triiodomethane	T-68
C_2Cl_6	236.74	Hexachloroethane	H-16
		Perchloroethane	H-16
C_2H_3N	41.05	Acetonitrile	A-10
		Methyl cyanide	A-10
$C_2H_4O_2$	60.05	Acetic acid	A-7
$C_2H_5NO_2$	75.07	2-Aminoacetic acid	G-8
		Glycine	G-8
$C_2H_6O_2$	62.07	1,2-Ethanediol	E-17
		Ethylene glycol	E-17
$C_3H_6N_6O_6$	222.12	Cyclotrimethylenetrinitramine	C-215
		RDX	C-215
		1,3,5-Trinitrohexahydro-*s*-triazine	C-215
C_3H_6O	58.08	Acetone	A-8, A-9
C_3H_8O	60.10	1-Propanol	P-119
		2-Propanol	P-120
$C_3H_8O_2$	76.09	1,2-Propanediol	P-118
		Propylene glycol	P-118
$C_3H_8O_3$	92.09	Glycerin	G-6, G-7
		Glycerol	G-6, G-7
		1,2,3-Propanetriol	G-6, G-7
$C_4H_{10}O$	74.12	1-Butanol	B-69
		n-Butanol	B-68–B-70
		Butyl alcohol	B-68, B-69
$C_4H_3ClN_2$	114.53	2-Chloropyrimidine	C-63
		2-Chloro-1,3-pyrimidine	C-63
$C_4H_3FN_2O_2$	130.08	5-Fluoro-2,4-pyrimidinedione	F-42
		5-Fluorouracil	F-42
$C_4H_4N_2O$	96.09	4-Hydroxypyrimidine	H-90
		4-Pyrimidone	H-90
		4(1*H*)-Pyrimidinone	H-90
$C_4H_4N_2O_2$	112.09	2,4-Pyrimidinedione	U-3
		Uracil	U-3
$C_4H_4N_2S$	112.15	2-Mercaptopyrimidine	M-10

(*continued*)

Formula	MW	Solutes	Data Table No.
		Pyrimidine-2-thiol	M-10
		2-Pyrimidinethione	M-10
$C_4H_5N_3$	95.10	2-Aminopyrazine	A-34
		Pyrazinamine	A-34
$C_4H_6N_2S$	114.17	Methimazole	M-16
		1-Methylimidazole-2-thiol	M-16
		1-Methyl-4-imidazoline-2-thione	M-16
$C_4H_6O_3$	90.08	2-Hydroxypropanoic acid	L-1
		Lactic acid	L-1
$C_5H_4F_6NNaS_2$	N/A	Sodium bis(trifluoroethyl)-dithiocarbamate	M-12, M-13
$C_5H_4N_2O_2$	124.10	2-Carboxypyrazine	P-128
		Pyrazine-2-carboxylic acid	P-128
		2-Pyrazinoic acid	P-128
$C_5H_5ClMoO_2$	228.48	Chloro(η^5-cyclopentadienyl)-dioxomolybdenum	C-213
$C_5H_7LiO_2$	106.05	Bis(2,4-pentanedionato)lithium	L-27
		Li(acac)	L-27
		Lithium acetylacetonate	L-27
$C_5H_{10}NNaS_2$	N/A	Sodium diethyldithiocarbamate	M-12, M-13
$C_5H_{10}O_5$	150.13	D-Xylose	X-4
		(+)-Xylose	X-4
$C_5H_{11}NS_2 \cdot C_4H_{11}N$	222.41	Diethylamine diethyldithiocarbamate	D-40
		Diethylammonium diethyldithiocarbamate	D-40
		N,*N*-Diethyldithiocarbamic acid diethylamine salt	D-40
C_6Cl_6	284.78	BHC	H-8–H-10
		Hexachlorobenzene	H-8–H-10
		Perchlorobenzene	H-8–H-10
C_6HCl_5O	266.34	Pentachlorophenol	P-26–P-30
$C_6H_2Cl_4O$	231.89	2,3,4,5-Tetrachlorophenol	T-16
$C_6H_3N_3O_7$	229.10	Picric acid	P-84
		2,4,6-Trinitrophenol	P-84
$C_6H_4Cl_2$	147.00	1,2-Dichlorobenzene	D-21
$C_6H_4Cl_2O$	163.00	2,4-Dichlorophenol	D-31
$C_6H_4N_2O_5$	184.11	2,4-Dinitrophenol	D-77
		2,5-Dinitrophenol	D-78
$C_6H_4O_2$	108.09	1,4-Benzoquinone	Q-2, Q-3
		p-Benzoquinone	Q-2, Q-3
		Quinone	Q-2, Q-3
		p-Quinone	H-39, Q-2, Q-3
C_6H_5Br	157.01	Bromobenzene	B-67
C_6H_5Cl	112.56	Chlorobenzene	C-53
$C_6H_5Cl_2N$	162.02	3,4-Dichloraniline	P-43
		3,4-Dichlorobenzenamine	P-43
C_6H_5ClO	128.56	4-Chlorophenol	C-61
		p-Chlorophenol	C-61
$C_6H_5CoI_2O$	405.85	Carbonyldiiodo(η^5-Cyclopentadienyl)-cobalt	C-213

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_6H_5NO_2$	123.11	3-Carboxypyridine	N-67, N-68, N-69, N-70, N-71
		Nicotinic acid	N-67–N-71
		3-Pyridinecarboxylic acid	N-67–N-71
$C_6H_5NO_3$	139.11	3-Nitrophenol	N-80
		4-Nitrophenol	N-81
		m-Nitrophenol	N-80
		p-Nitrophenol	N-81
$C_6H_6Cl_6$	290.83	γ-BHC	L-23
		γ-1,2,3,4,5,6-Hexachlorocyclohexane	L-23
		Lindane	L-23
C_6H_6O	94.11	Phenol	N-34, P-75, P-76
$C_6H_6O_2$	110.11	1,2-Benzenediol	D-50, P-138, P-139
		1,3-Benzenediol	D-50, R-3
		1,4-Benzenediol	D-50, H-34–H-38
		Catechol	P-138, P-139
		1,3-Dihydroxybenzene	R-3
		o-Dihydroxybenzene	D-50
		m-Dihydroxybenzene	D-50
		p-Dihydroxybenzene	D-50
		Hydroquinone	D-50, H-34–H-39
		Pyrocatechol	D-50, P138, P-139
		Resorcinol	D-50, R-3
$C_6H_8O_6$	176.12	Ascorbic acid	A-70
		Vitamin C	A-70
$C_6H_{10}O$	98.14	Cyclohexanol	C-210
$C_6H_{10}O_4PdS_2$	316.69	Bis(methylthioglycolato)palladium	P-2
		Palladium bis(methylthioglycolate)	P-2
		$Pd(MTG)_2$	P-2
$C_6H_{12}O$	100.16	Cyclohexanone	C-211
$C_6H_{12}O_2$	116.16	Butyl acetate	B-71, B-72
		Caproic acid	H-26, H-27
		1-Hexanoic acid	H-26, H-27
		Hexanoic acid	H-26, H-27
$C_6H_{12}O_3$	132.16	2-Hydroxyhexanoic acid	H-83
		(±)-2-Hydroxycaproic acid	H-83
$C_6H_{12}O_6$	180.16	Dextrose	G-4, G-5
		D-Fructose	F-45
		D-(−)-Fructose	F-45
		D-Glucose	G-4, G-5
		D-(+)-Glucose	G-4, G-5
		D-(−)-Levulose	F-45
$C_6H_{13}NO_2$	131.17	(*S*)-2-Amino-4-methylpentanoic acid	L-8
		L-Leucine	L-8
		4-Methyl-L-norvaline	L-8
$C_6H_{14}O$	102.17	Diethyl methyl carbinol	M-51
		1-Hexanol	H-28
		3-Hexanol	H-29
		n-Hexyl alcohol	H-28
		3-Methyl-3-pentanol	M-51
$C_6H_{14}O_4$	150.17	2,2′-(Ethylenedioxy)diethanol	T-63, T-64

(*continued*)

Formula	MW	Solutes	Data Table No.
		Triethylene glycol	T-63, T-64
		Triglycol	T-63, T-64
$C_6H_{15}O_4P$	182.15	Triethyl phosphate	U-4
C_6MoO_6	264.00	Hexacarbonylmolybdenum	M-58
		Molybdenum hexacarbonyl	M-58
C_7H_5N	103.12	Benzenecarbonitrile	B-28
		Benzonitrile	B-28
		Cyanobenzene	B-28
$C_7H_5N_3O_6$	227.13	TNT	T-77, T-78
		Trinitrotoluene	T-77, T-78
		2,4,6-Trinitrotoluene	T-77, T-78
C_7H_6O	106.12	Benzaldehyde	B-9, B-10
		Benzoic aldehyde	B-9
$C_7H_6O_2$	122.12	Benzoic acid	B-13–B-26, D-8, N-24, P-67
$C_7H_6O_3$	138.12	Catechaldehyde	P-126
		3,4-Dihydroxybenzaldehyde	P-126
		2-Hydroxybenzoic acid	H-50–H-62
		3-Hydroxybenzoic acid	H-68–H-72
		4-Hydroxybenzoic acid	H-73–H-75
		o-Hydroxybenzoic acid	H-50–H-66
		m-Hydroxybenzoic acid	H-63, H-64, H-66–H-72
		p-Hydroxybenzoic acid	H-65–H-67, H-73–H-75
		Protocatechualdehyde	P-126
		Salicylic acid	A-74, H-50–H-62
$C_7H_6O_4$	154.12	2,5-Dihydroxybenzoic acid	G-2
		3,4-Dihydroxybenzoic acid	P-127
		Gentisic acid	G-2
		5-Hydroxysalicylic acid	G-2
		Protocatechuic acid	P-127
C_7H_7Cl	126.58	2-Chloro-1-methylbenzene	C-60
$C_7H_7NO_2$	137.14	2-Aminobenzoic acid	A-25–A-27
		Anthranilic acid	A-25, A-26
		2-Carboxyaniline	A-25, A-26
		1-Methyl-3-nitrobenzene	N-82
		3-Nitrotoluene	N-82
$C_7H_7NO_3$	153.14	2-Methoxynitrobenzene	N-76
		2-Nitroanisole	N-76
$C_7H_8N_4O_2$	180.16	3,7-Dihydro-3,7-dimethyl-1*H*-purine-2,6-dione	T-30–T-34
		1,3-Dimethylxanthine	T-35–T-38
		3,7-Dimethylxanthine	T-30–T-34
		Theobromine	T-30–T-34
		Theophylline	T-35–T-38
C_7H_8O	108.14	Anisole	A-38, A-39
		Benzenemethanol	B-30, B-31
		Benzyl alcohol	B-30, B-31
		4-Cresol	C-202
		p-Cresol	C-202
		Methoxybenzene	A-38, A-39
		Methyl phenyl ether	A-38

(*continued*)

Formula	MW	Solutes	Data Table No.
		4-Methylphenol	C-202
$C_7H_8O_2$	124.14	2-Hydroxyanisole	M-26
		2-Methoxyphenol	M-26
$C_7H_{12}ClN_5$	201.66	2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	S-4
		Simazine	S-4
$C_8Cl_4N_2$	265.91	Chlorothalonil	T-15
		2,4,5,6-Tetrachloro-1,3-benzene-dicarbonitrile	T-15
		Tetrachloroisophthalonitrile	T-15
$C_8H_4O_3$	148.12	1,3-Isobenzofurandione	P-83
		1,3-Phthalandione	P-83
		Phthalic anhydride	P-83
$C_8H_5MnO_3$	204.06	Cyclopentadienylmanganese tricarbonyl	C-212
		Tricarbonyl(η^5-cyclopentadienyl)-manganese	C-212
$C_8H_6Cl_2O_3$	221.04	2,4-D	D-32–D-35, P-43
		2,4-Dichlorophenoxy acetic acid	D-32–D-35, P-43
		2,4-Dichlorophenoxy ethanoic acid	D-32–D-35
C_8H_7N	117.15	2,3-Benzopyrrole	I-3
		1*H*-Indole	I-3
		Indole	I-3
$C_8H_7NO_4$	181.15	Methyl 2-nitrobenzoate	M-43
		Methyl 3-nitrobenzoate	M-44
		Methyl 4-nitrobenzoate	M-45
		Methyl *o*-nitrobenzoate	M-43, M-46, M-47
		Methyl *m*-nitrobenzoate	M-44, M-46
		Methyl *p*-nitrobenzoate	M-45, M-47
		2-Nitrobenzoic acid methyl ester	M-43
		3-Nitrobenzoic acid methyl ester	M-44
		4-Nitrobenzoic acid methyl ester	M-45
$C_8H_8I_2O_2S$	422.02	Diiodomethyl *p*-tolyl sulfone	D-56
		p-Tolyl diiodomethyl sulfone	D-56
$C_8H_8O_2$	136.15	*p*-Anisaldehyde	A-35
		Benzeneacetic acid	P-79
		4-Methoxybenzaldehyde	A-35
		2-Methylbenzoic acid	M-34
		3-Methylbenzoic acid	M-35
		4-Methylbenzoic acid	M-36
		Phenylacetic acid	P-79
		Phenylethanoic acid	P-79
$C_8H_8O_3$	152.15	*o*-Anisic acid	M-19
		m-Anisic acid	M-20
		p-Anisic acid	A-37, M-21
		4-Carbomethoxy phenol	M-53
		2-Hydroxy-2-phenylacetic acid	M-1
		4-Hydroxy-3-methoxybenzaldehyde	V-3
		α-Hydroxybenzeneacetic acid	M-1
		2-Hydroxybenzoic acid methyl ester	M-52
		Mandelic acid	M-1

(*continued*)

Formula	MW	Solutes	Data Table No.
		2-Methoxybenzoic acid	M-19
		3-Methoxybenzoic acid	M-20
		4-Methoxybenzoic acid	A-37, M-21
		Methyl 2-hydroxybenzoate	M-52
		Methyl 4-hydroxybenzoate	M-53
		Methyl salicylate	M-52
		Methylparaben	M-53
		Vanillin	V-3
$C_8H_8O_4$	168.15	4-Hydroxy-3-methoxybenzoic acid	V-1, V-2
		Vanillic acid	V-1, V-2
$C_8H_8O_5$	184.15	Gallic acid methyl ester	M-39
		Methyl gallate	M-39
		3,4,5-Trihydroxybenzoic acid methyl ester	M-39
$C_8H_9NO_2$	151.16	Acetaminophen	A-4–A-6
		4′-Hydroxyacetanilide	A-4–A-6
		N-(4-Hydroxyphenyl)acetamide	A-4–A-6
$C_8H_9O_2N$	151.16	*m*-Anisamide	M-17
		p-Anisamide	M-18
		3-Methoxybenzamide	M-17
		4-Methoxybenzamide	M-18
$C_8H_{10}N_4O_2$	194.19	Caffeine	C-3–C-11
		1,3,7-Trimethyl-2,6-dioxopurine	C-3–C-11
		1,3,7-Trimethylxanthine	C-3–C-11
$C_8H_{10}O$	122.16	2,5-Dimethylphenol	X-1
		2,6-Dimethylphenol	X-2
		3,4-Dimethylphenol	X-3
		4-Hydroxy-1,2-dimethylbenzene	X-3
		2,5-Xylenol	X-1, N-35
		2,6-Xylenol	X-2
		3,4-Xylenol	X-3
$C_8H_{10}O_2$	138.16	1,2-Dimethoxybenzene	D-59
		1,4-Dimethoxybenzene	D-60
		Hydroquinone dimethyl ether	D-60
		2-Methoxyanisole	D-59
		4-Methoxyanisole	D-60
$C_8H_{11}N$	121.18	2,5-Dimethylaniline	D-63
		2,5-Dimethylbenzenamine	D-63
		2,5-Xylidine	D-63
$C_8H_{13}Cl_2MoO_2Si$	336.91	Chloro(η^5-Trimethylsilylcyclo-pentadienyl)-dioxomolybdenum	C-214
$C_8H_{14}ClN_5$	215.68	Atrazine	A-76–A-78
		2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	A-76, A-77, A-78
$C_8H_{15}N_2 \cdot BF_4$	226.02	1-Butyl-3-methylimidazolium tetrafluoroborate	B-79
		Ionic liquid [bmim][BF_4]	B-79
$C_8H_{15}N_2 \cdot F_6P$	284.18	1-Butyl-3-methylimidazolium hexafluorophosphate	B-77, B-78

(*continued*)

Formula	MW	Solutes	Data Table No.
		Ionic liquid [bmim][PF_6]	B-77, B-78
$C_8H_{16}O_2$	144.21	α-Ethylcaproic acid	E-19
		2-Ethylhexanoic acid	E-19, E-20
C_8H_{18}	114.23	2,3-Dimethylhexane	D-66
		Octane	O-17
		n-Octane	B-70, O-17
$C_8H_{18}O$	130.23	2-Ethyl-1-hexanol	E-18, E-20
$C_9H_6N_2S_3$	238.36	2-(Thiocyanatomethylthio) benzo[*d*]thiazole	T-40
		2-(Thiocyanomethylthio)benzothiazole	T-40
$C_9H_6O_2$	146.14	2*H*-1-Benzopyran-2-one	C-200, C-201
		Coumarin	C-200, C-201
$C_9H_6O_3$	162.14	4-Hydroxychromen-2-one	H-77
		7-Hydroxychromen-2-one	H-78, C-79
		4-Hydroxycoumarin	H-77
		7-Hydroxycoumarin	H-78, H-79
$C_9H_6O_4$	178.14	Aesculetin	A-21
		6,7-Dihydroxycoumarin	A-21
		Esculetin	A-21
C_9H_7NO	145.16	8-Hydroxyquinoline	H-91
		8-Quinolinol	H-91
$C_9H_8O_2$	148.16	*trans*-Cinnamic acid	C-160
		trans-3-Phenylacrylic acid	C-160
		(*E*)-3-Phenyl-2-propenoic acid	C-160
$C_9H_8O_3$	164.16	2-Coumaric acid	C-192, C-193
		3-Coumaric acid	C-194, C-195
		4-Coumaric acid	C-196–C-199
		o-Coumaric acid	C-192, C-193
		m-Coumaric acid	C-194, C-195
		p-Coumaric acid	C-196–C-199
		2-Hydroxycinnamic acid	C-192, C-193
		3-Hydroxycinnamic acid	C-194, C-195
		4-Hydroxycinnamic acid	C-196–C-199
$C_9H_8O_4$	180.16	2-Acetoxybenzoic acid	A-13, A-72, A-73
		Acetylsalicylic acid	A-13, A-72, A-73
		Aspirin	A-13, A-72–A-74
		Caffeic acid	C-2
		3,4-Dihydroxybenzeneacrylic acid	C-2
		3,4-Dihydroxycinnamic acid	C-2
C_9H_9N	131.17	3-Methylindole	S-5
		Skatole	S-5
$C_9H_9N_3O_2S_2$	255.32	2-(Sulfanilylamino)thiazole	S-44, S-45
		Sulfathiazole	S-44, S-45
		*N*1-(2-Thiazolyl)sulfanilamide	S-44, S-45
C_9H_9NO	147.17	5-Methoxyindole	M-24
		5-Methoxy-1*H*-indole	M-24
$C_9H_{10}Cl_2N_2O_2$	249.09	3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea	P-43
		Linuron	P-43
$C_9H_{10}O_3$	166.17	Ethyl 4-hydroxybenzoate	H-76

(*continued*)

Formula	MW	Solutes	Data Table No.
		4-Hydroxybenzoic acid ethyl ester	H-76
		o-Methoxyphenylacetic acid	M-27
		m-Methoxyphenylacetic acid	M-27
		p-Methoxyphenylacetic acid	M-27
$C_9H_{10}O_5$	198.17	Gallic acid 3,5-dimethyl ether	S-46
		4-Hydroxy-3,5-dimethoxybenzoic acid	S-46
		Syringic acid	S-46
$C_9H_{11}NO_2$	165.19	4-Aminobenzoic acid ethyl ester	B-11, B-12
		(*S*)-2-Amino-3-phenylpropanonic acid	P-80
		Benzocaine	B-11, B-12
		Ethyl 4-aminobenzoate	B-11, B-12
		L-Phenylalanine	P-80
		3-Phenyl-L-alanine	P-80
$C_9H_{12}O$	136.19	Benzenepropanol	P-81
		3-Phenyl-1-propanol	P-81
$C_9H_{13}CoI_2OSi$	477.82	Carbonyldiiodo(η^5-Trimethylsilyl cyclopentadienyl)cobalt	C-214
$C_9H_{15}O_6RhS_3$	418.31	$Rh(MTG)_3$	R-7
		Rhodium tris(methylthioglycolate)	R-7
		Tris(methylthioglycolato)rhodium	R-7
$C_9H_{16}ClN_5$	229.71	2-Chloro-4,6-bis(isopropylamino)-1,3,5-triazine	P-121
		Propazine	P-121
$C_9H_{17}N_5O$	211.26	Atratone	A-75
		2-Ethylamino-4-isopropylamino-6-methoxy-s-triazine	A-75
$C_9H_{17}N_5S$	227.33	Ametryne	A-23, A-24
		2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine	A-23, A-24
$C_9H_{20}O$	144.25	1-Nonanol	N-89
		Nonyl alcohol	N-89
$C_{10}H_2BaF_{12}O_4$	551.43	Barium bis(hexafluoroacetylacetonate)	B-1
		Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)barium	B-1
$C_{10}H_2CoF_{12}O_4$	473.03	Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)cobalt	C-167
		Cobalt bis(hexafluoroacetylacetonate)	C-167
		$Co(hfa)_2$	C-167
		Copper bis(hexafluoroacetylacetonate)	M-13
$C_{10}H_2CuF_{12}O_4$	477.65	Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper	C-180
		Copper bis(1,1,1,6,6,6-hexafluoro-acetylacetonate)	C-180
		$Cu(hfa)_2$	C-180
$C_{10}H_2CuF_{12}O_4.H_2O$	495.67	Bis(1,1,1,6,6,6-hexafluoro pentane-2,4-dionato)copper hydrate	C-181, C-182
		Copper bis(1,1,1,6,6,6-hexafluoro-acetylacetonate) hydrate	C-181, C-182
		$Cu(hfa)_2 \cdot H_2O$	C-181, C-182
$C_{10}H_2F_{12}NiO_4$	N/A	Nickel bis(hexafluoroacetylacetonate)	M-13

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{10}H_5Cl_2F_5O_2$	323.04	Pentafluoropropyl 2,5-dichlorobenzoate	P-38
$C_{10}H_6Cl_2O$	213.06	2,4-Dichloro-1-naphthalenol	D-30
		2,4-Dichloro-1-naphthol	D-30
$C_{10}H_6O_2$	158.15	1,4-Naphthalenedione	N-52–N-54
		1,4-Naphthoquinone	N-52–N-54
		p-Naphthoquinone	N-52–N-54
$C_{10}H_7NO_2$	173.17	C. I. Mordant Brown	C-155
		2-Nitroso-1-naphthol	C-155
$C_{10}H_8$	128.17	Naphthalene	N-1–N-35, P-71
$C_{10}H_8CuF_{12}N_2S_4$	575.95	Copper bis[bis(trifluoroethyl)-dithiocarbamate]	C-189, M-12, M-13, M-15
$C_{10}H_8CuF_6O_4$	369.71	Bis(1,1,1-trifluoropentane-2,4-dionato)-copper	C-186
		Copper bis(1,1,1-trifluoroacetylacetonate)	C-186
		$Cu(tfa)_2$	C-186
$C_{10}H_8F_{12}HgN_2S_4$	713.00	Mercury bis[bis(trifluoroethyl)-dithiocarbamate]	M-11, M-13, M-15
$C_{10}H_8F_{12}N_2NiS_4$	N/A	Nickel bis[bis(trifluoroethyl)-dithiocarbamate]	M-12, M-13, M-15
$C_{10}H_8O$	144.17	1-Naphthalenol	N-36, N-37
		2-Naphthalenol	N-39–N-48
		1-Naphthol	N-36, N-37
		2-Naphthol	N-39–N-48
		α-Naphthol	N-36–N-38
		β-Naphthol	N-38–N-51
$C_{10}H_8O_2$	160.17	6-Methyl-2*H*-1-benzopyran-2-one	M-37
		7-Methyl-2*H*-1-benzopyran-2-one	M-38
		6-Methylcoumarin	M-37
		7-Methylcoumarin	M-38
$C_{10}H_8O_3$	176.17	7-Hydroxy-4-methyl-2*H*-chromen-2-one	H-86
		7-Hydroxy-4-methylcoumarin	H-86
		7-Methoxy-2*H*-1-benzopyran-2-one	M-23
		7-Methoxycoumarin	M-23
		Methylumbelliferone	M-23
		4-Methylumbelliferone	H-86
$C_{10}H_{10}Cl_2O_2$	233.09	2,5-Dichlorobenzoic acid *n*-propyl ester	P-123
		Propyl 2,5-dichlorobenzoate	P-123
$C_{10}H_{10}Cl_2Ti$	249.00	Dichlorobis(η^5-cyclopentadienyl)-titanium	T-43
		Titanocene dichloride	T-43
$C_{10}H_{10}Cl_2Zr$	292.32	Dichlorobis(η^5-cyclopentadienyl)-zirconium	C-213
$C_{10}H_{10}Fe$	186.03	Bis(η^5-cyclopentadienyl)iron	F-2–F-5
		Ferrocene	F-2–F-5
		Iron bis(cyclopentadienide)	F-2–F-5
$C_{10}H_{10}O_4$	194.18	Ferulic acid	F-6–F-8
		4-Hydroxy-3-methoxycinnamic acid	F-6–F-8
		3-(4-Hydroxy-3-methoxyphenyl)acrylic acid	F-6–F-8

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{10}H_{11}NO_3$	193.20	4′-Acetoxyacetanilide	A-11, A-12
		p-Acetoxyacetanilide	A-11, A-12
$C_{10}H_{11}O_3$	193.20	4-Acetamidophenyl acetate	A-11, A-12
$C_{10}H_{12}$	132.20	1,2,3,4-Tetrahydronaphthalene	T-25, T-26
		Tetralin	T-25, T-26
$C_{10}H_{12}O$	148.20	1,2,3,4-Tetrahydro-1-naphthol	T-27, T-28
		α-Tetralol	T-27, T-28
$C_{10}H_{12}O_2$	164.20	4-Allyl-2-methoxyphenol	E-28
		Eugenol	E-28
		2-Methoxy-4-(2-propenyl)phenol	E-28
$C_{10}H_{12}O_3$	180.20	4-Hydroxybenzoic acid propyl ester	P-125
		Propyl 4-hydroxybenzoate	P-125
$C_{10}H_{12}O_5$	212.20	Gallic acid propyl ester	P-124
		Propyl gallate	P-124
		3,4,5-Trihydroxybenzoic acid propyl ester	P-124
$C_{10}H_{14}CoO_4$	257.15	Bis(2,4-pentanedionato)cobalt	C-166
		$Co(acac)_2$	C-166
		Cobalt bis(acetylacetonate)	C-166
$C_{10}H_{14}CoO_4 \cdot 2H_2O$	293.18	Bis(2,4-pentanedionato)copper dihydrate	C-177
		Copper bis(acetylacetonate) dihydrate	C-177
$C_{10}H_{14}CuO_4$	261.76	Bis(2,4-pentanedionato)copper	C-173–C-176
		Copper bis(acetylacetonate)	C-173–C-176
		$Cu(acac)_2$	C-173–C-176
$C_{10}H_{14}MnO_4 \cdot 2H_2O$	289.19	Bis(2,4-pentanedionato)manganese dihydrate	M-2
		Manganese bis(acetylacetonate) dihydrate	M-2
		$Mn(acac)_2 \cdot 2H_2O$	M-2
$C_{10}H_{14}O$	150.22	2-*tert*-Butylphenol	B-80
		Carvacrol	C-41
		L-Carvone	C-42
		(*R*)-(−)-Carvone	C-42
		2-(1,1-Dimethylethyl)phenol	B-80
		5-Isopropyl-2-methylphenol	C-41
		5-Isopropyl-*o*-cresol	C-41
		(*R*)-(−)-*p*-Mentha-6,8-dien-2-one	C-42
		5-Methyl-2-(1-methylethyl)phenol	T-42
		Thymol	T-42
$C_{10}H_{14}O_4Pd$	304.64	Bis(2,4-pentanedionato)palladium	P-1
		Palladium bis(acetylacetonate)	P-1
		$Pd(acac)_2$	P-1
$C_{10}H_{14}O_4Pt$	393.29	Bis(2,4-pentanedionato)platinum	P-90
		Platinum bis(acetylacetonate)	P-90
$C_{10}H_{14}O_4Zn$	263.60	Bis(2,4-pentanedionato)zinc	Z-1
		Zinc bis(acetylacetonate)	Z-1
		Zinc bis(2,4-pentanedionate)	Z-1
$C_{10}H_{16}$	136.23	Adamantane	A-19, A-20
		4-Isopropenyl-1-methyl-1-cyclohexene	L-10–L-16, L-18

(*continued*)

Formula	MW	Solutes	Data Table No.
		(4*S*)-4-Isopropenyl-1-methyl-1-cyclohexene	L-17
		Limonene	L-10–L-20
		L-Limonene	L-17
		p-Mentha-1,8-diene	L-10–L-16
		(*S*)-(−)-*p*-Mentha-1,8-diene	L-17
		2-Pinene	P-85–P-88
		α-Pinene	P-85–P-88
		Tricyclo[3.3.1.1^{3},7]decane	A-19, A-20
		2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	P-85–P-88
$C_{10}H_{16}CuN_2S_4$	356.04	Copper pyrrolidinedithiocarbamate	C-189
$C_{10}H_{16}HgN_2S_4$	493.08	Mercury pyrrolidinedithiocarbamate	M-11
$C_{10}H_{16}O$	152.23	2-Bornanone	C-13
		Camphor	C-13
		Citral	C-163, C-164, L-19
		3,7-Dimethyl-2,6-octadienal	C-163, C-164, L-19
		Fenchone	F-1
		cis-2-Pinen-4-ol	V-5
		1,3,3-Trimethyl-2-norbornanone	F-1
		1,7,7-Trimethylbicyclo[2,2,1]-heptan-2-one	C-13
		1,3,3-Trimethylnorcamphor	F-1
		cis-Verbenol	V-5
$C_{10}H_{18}$	138.25	Decahydronaphthalene	D-2
		Decalin	D-2
$C_{10}H_{18}O$	154.25	Cineole	C-158, C-159
		1,8-Cineole	C-158, C-159
		3,7-Dimethyl-1,6-octadien-3-ol	L-21, L-22
		1,8-Epoxy-*p*-menthane	C-158, C-159
		Linalool	L-20–L-22
$C_{10}H_{19}N_5O$	225.29	2-Methoxy-4,6-bis(isopropylamino)-1,3,5-triazine	P-115
		Prometone	P-115
$C_{10}H_{19}N_5S$	241.36	2,4-Bis(isopropylamino)-6-methylthio-1,3,5-triazine	P-116, P-117
		Prometryne	P-116, P-117
$C_{10}H_{19}NO$	169.27	6-Caprolactam	C-15
$C_{10}H_{20}CuN_2S_4$	360.07	Copper bis(diethyldithiocarbamate)	C-189, M-12, M-13
$C_{10}H_{20}HgN_2S_4$	497.11	Mercury bis(diethyldithiocarbamate)	M-11, M-13
$C_{10}H_{20}N_2NiS_4$	N/A	Nickel bis(diethyldithiocarbamate)	M-12, M-13
$C_{10}H_{20}N_2PdS_4$	N/A	Palladium bis(diethyldithiocarbamate)	M-14
$C_{10}H_{20}O$	156.27	Menthol	M-7–M-9
		5-Methyl-2-(1-methylethyl)-cyclohexanol	M-7–M-9
$C_{10}H_{22}$	142.28	Decane	D-3–D-6
$C_{10}H_{22}O$	158.28	Capric alcohol	D-9
		1-Decanol	D-9
		Decyl alcohol	D-9
$C_{10}H_{22}O_2$	174.28	Decamethylene glycol	D-7
		1,10-Decanediol	D-7, D-8

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{11}H_7Cl_2F_5O_2$	337.07	Pentafluorobutyl 2,5-dichlorobenzoate	P-37
$C_{11}H_7N$	153.18	2-Cyanonaphthalene	C-204
		2-Naphthalenenitrile	C-204
		2-Naphthonitrile	C-204
$C_{11}H_8O_2$	172.18	1-Formyl-2-naphthol	H-89
		2-Hydroxy-1-naphthaldehyde	H-89
		Menadione	V-12, V-13
		2-Methyl-1,4-naphthoquinone	V-12, V-13
		Vitamin K_3	V-12, V-13
$C_{11}H_{10}$	142.20	1-Methylnaphthalene	A-39, B-10, M-40, M-42
		2-Methylnaphthalene	N-30, M-40–M-42
$C_{11}H_{10}O$	158.20	2-Methoxynapthalene	M-25
		Methyl-2-naphthyl ether	M-25
$C_{11}H_{11}N_5$	213.24	2,6-Diamino-3-phenylazopyridine	P-74
		Phenazopyridine	P-74
$C_{11}H_{12}Cl_2N_2O_5$	323.13	Chloramphenicol	C-52
		2,2-Dichloro-*N*-((1*R*,2*R*)-1,3-dihydroxy-1-(4-nitrophenyl)propan-2-yl)-acetamide	C-52
$C_{11}H_{12}Cl_2O_2$	247.12	Butyl 2,5-dichlorobenzoate	B-76
		2,5-Dichlorobenzoic acid butyl ester	B-76
$C_{11}H_{12}N_2O_2$	204.23	(2*S*)-2-Amino-3-(1*H*-indol-3-yl)-propanoic acid	T-105
		L-Tryptophan	T-105
$C_{11}H_{12}N_4O_2S$	264.30	*N*-(4-Methyl-2-pyrimidyl)sulfanilamide	S-41
		Sulfamerazine	S-41
$C_{11}H_{12}O_2$	176.21	3,4-Dihydro-5-methoxy-1(2*H*)-naphthalenone	M-28
		3,4-Dihydro-6-methoxy-1(2*H*)-naphthalenone	M-29
		3,4-Dihydro-7-methoxy-1(2*H*)-naphthalenone	M-30
		5-Methoxy-1-tetralone	M-28, M-32
		6-Methoxy-1-tetralone	M-29, M-31
		7-Methoxy-1-tetralone	M-30–M-32
$C_{11}H_{20}O_2$	184.28	Oxacyclododecan-2-one	U-2
		11-Undecanolactone	U-2
		Undecanolide	U-2
$C_{11}H_{24}O$	172.31	1-Undecanol	U-1
		Undecyl alcohol	U-1
$C_{12}H_3Cl_7$	395.32	2,2′,3,4,4′,5,5′-Heptachlorobiphenyl	H-2–H-4
		PCB 180	H-2–H-4
$C_{12}H_4Cl_6$	360.88	2,2′,3,3′,4,4′-Hexachlorobiphenyl	H-11, H-12
		2,2′,4,4′,5,5′-Hexachlorobiphenyl	H-13–H-15
		PCB 128	H-11, H-12
		PCB 153	H-13–H-15
$C_{12}H_5Cl_5$	326.43	2,2′,4,5,5′-Pentachlorobiphenyl	P-23–P-25
$C_{12}H_6Cl_4$	291.99	PCB 70	T-11
		PCB 77	T-12–T-14
		2,3′,4′,5-Tetrachlorobiphenyl	T-11

(*continued*)

Formula	MW	Solutes	Data Table No.
		3,3′,4,4′-Tetrachlorobiphenyl	T-12–T-14
$C_{12}H_7Cl_3$	257.54	2,4′,5-Trichlorobiphenyl	T-58–T-60
$C_{12}H_8Cl_2$	223.10	2,2′-Dichlorobiphenyl	D-22–D-24
		4,4′-Dichlorobiphenyl	D-25–D-28
		2,2′-Dichloro-1,1′-biphenyl	D-22–D-24
		4,4′-Dichloro-1,1′-biphenyl	D-25–D-28
		PCB 15	D-25–D-28
$C_{12}H_8Cl_6O$	380.91	Endrin	E-9
		1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4α,5,6,7,8,8α-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene	E-9
$C_{12}H_8N_2$	180.21	9,10-Diazaanthracene	P-73
		4,5-Diazaphenanthrene	P-72
		Dibenzopyrazine	P-73
		1,10-Phenanthroline	P-72
		Phenazine	P-73
$C_{12}H_8O$	168.19	Dibenzofuran	D-17
		Diphenylene oxide	D-17
$C_{12}H_8S$	184.26	Dibenzothiophene	D-18
		Diphenylene sulfide	D-18
		9-Thiafluorene	D-18
$C_{12}H_9Cl$	188.66	2-Chlorobiphenyl	C-54–C-56
		4-Chlorobiphenyl	C-57–C-59
$C_{12}H_9N$	167.21	9-Azafluorene	C-22, C-23
		Carbazole	A-61, A-63, C-22, C-23, P-68
		Dibenzopyrrole	C-22, C-23
$C_{12}H_{10}$	154.21	Acenaphthene	A-1–A-3
		Biphenyl	B-35–B-38, N-25, N-26
		1,1′-Biphenyl	B-36, B-38
		1,2-Dihydroacenaphthylene	A-1, A-2
$C_{12}H_{10}N_2$	182.22	Azobenzene	A-80, A-81
		Diphenyldiazene	A-80, A-81
$C_{12}H_{10}N_2O$	198.22	C. I. Solvent Yellow 7	H-48, H-49
		p-Hydroxyazobenzene	H-48, H-49
		4-(Phenylazo)phenol	H-48, H-49
$C_{12}H_{10}N_2O_2$	214.22	2-Nitrodiphenylamine	N-79
		2-Nitro-*N*-phenylaniline	N-79
$C_{12}H_{10}N_4O_2$	242.24	4-Amino-4′-nitroazobenzene	C-113–C-115
		C. I. Disperse Orange 3	C-113–C-115
		4-(4-Nitrophenylazo)aniline	C-114, C-115
$C_{12}H_{11}N$	169.22	Diphenylamine	D-86–D-88
		N-Phenylaniline	D-86–D-88
		N-Phenylbenzenamine	D-86–D-88
$C_{12}H_{12}$	156.22	2,3-Dimethylnaphthalene	D-67–D-69, N-27, P-69
		2,6-Dimethylnaphthalene	D-69–D-74, N-28, P-70
		2,7-Dimethylnaphthalene	D-74, D-75
$C_{12}H_{13}NO_6$	267.24	*N*-Benzyloxycarbonyl-DL-aspartic acid	C-24
		N-Carbobenzoxy aspartic acid	C-24
$C_{12}H_{14}Cl_2FNO_4S$	358.21	Aquafen	F-32

(*continued*)

Formula	MW	Solutes	Data Table No.
		2,2-Dichloro-*N*-[(1*S*,2*R*)-1-(fluoromethyl)-2-hydroxy-2-[4-(methyl sulfonyl)phenyl]ethyl]-acetamide	F-32
		Florfenicol	F-32
$C_{12}H_{14}N_4O_2S$	278.33	*N*1-(4,6-Dimethyl-2-pyrimidinyl)-sulfanilamide	S-42, S-43
		Sulfamethazine	S-42, S-43
$C_{12}H_{14}N_4O_4S$	310.33	2,6-Dimethoxy-4-sulfanil-amidopyrimidine	S-39, S-40
		2,4-Dimethoxy-6-sulfonylamido-1,3-diazine	S-39, S-40
		Sulfadimethoxine	S-39, S-40
$C_{12}H_{14}O_4$	222.24	Diethyl 1,2-benzenedicarboxylate	D-42
		Diethyl phthalate	D-42
		Phthalic acid diethyl ester	D-42
$C_{12}H_{15}Cl_2NO_5S$	356.22	2,2-Dichloro-*N*-[2-hydroxy-1-(hydroxymethyl)-2-[4-(methylsulfonyl) phenyl]ethyl]-acetamide	T-39
		Thiamphenicol	T-39
$C_{12}H_{18}$	162.27	1,5,9-Cyclododecatriene	C-209
		Hexamethylbenzene	B-26, H-23–H-25
$C_{12}H_{18}Br_6$	641.73	Hexabromocyclododecane	H-7
$C_{12}H_{22}$	166.30	Cyclododecene	C-208
$C_{12}H_{22}O_{11}$	342.30	Saccharose	S-35
		Sucrose	S-35
		(+)-Sucrose	S-35
$C_{12}H_{24}O_2$	200.32	Dodecanoic acid	L-4, L-5
		Lauric acid	L-4, L-5
$C_{12}H_{26}$	170.33	Dodecane	D-93
$C_{12}H_{27}O_4P$	266.31	Phosphoric acid tributyl ester	T-52
		Tributyl Phosphate	T-52, U-4
$C_{13}H_8O$	180.20	9-Fluorenone	F-41
		Fluoren-9-one	F-41
$C_{13}H_8O_2S$	228.27	1-Hydroxy-9*H*-thioxanthen-9-one	H-92
		1-Hydroxythioxanthone	H-92
$C_{13}H_8O_3$	212.20	1-Hydroxy-9*H*-xanthen-9-one	H-93
		1-Hydroxyxanthone	H-93
$C_{13}H_8O_4$	228.20	1,6-Dihydroxyxanthen-9-one	D-55
		1,6-Dihydroxyxanthone	D-55
$C_{13}H_8O_5$	244.20	1,5,6-Trihydroxyxanthen-9-one	T-67
		1,5,6-Trihydroxyxanthone	T-67
$C_{13}H_8OS$	212.27	Thioxanthen-9-one	T-41
		Thioxanthone	T-41
		9-Thioxanthone	T-41
$C_{13}H_9N$	179.22	Acridine	A-14–A-18
		9-Azaanthracene	A-14–A-17
		2,3-Benzoquinoline	A-14–A-17
$C_{13}H_{10}$	166.22	Fluorene	F-27, F-36–F-40

(*continued*)

Formula	MW	Solutes	Data Table No.
		2,2′-Methylenebiphenyl	F-27, F-36–F-39
$C_{13}H_{10}N_3NaO_3$	279.23	5-(4-Aminophenylazo)-2-hydroxy-benzoic acid sodium salt	C-157
		C. I. Mordant Yellow 12	C-157
$C_{13}H_{11}BrO_5$	327.13	Dimethyl 6-bromo-2*H*-1-benzopyran-2,3-dicarboxylate	D-65
		Dimethyl 6-bromo-2*H*-chromene-2,3-dicarboxylate	D-65
$C_{13}H_{11}N$	181.23	2-Aminofluorene	A-31
		Fluoren-2-amine	A-31
$C_{13}H_{12}$	168.23	Benzyl benzene	D-89
		Diphenylmethane	D-89, N-29
$C_{13}H_{12}N_2O_5S$	308.31	Nimesulide	N-73
		4-Nitro-2-phenoxymethanesulfonanilide	N-73
$C_{13}H_{12}O_5$	284.23	Dimethyl 2*H*-1-benzopyran-2,3-dicarboxylate	D-64
		Dimethyl 2*H*-chromene-2,3-dicarboxylate	D-64
$C_{13}H_{13}N_3O_4$	275.26	2-Methyl-5-nitro-1*H*-imidazole-1-ethanol benzoate	M-54
		Metronidazole benzoate	M-54
$C_{13}H_{15}NO_4$	249.26	*N*-Benzyloxycarbonyl-DL-proline	C-25
		N-Carbobenzoxyproline	C-25
$C_{13}H_{17}NO_4$	251.28	*N*-Carbobenzoxyvaline	C-26
		N-Benzyloxycarbonyl-DL-valine	C-26
$C_{13}H_{20}N_2O_2$	236.31	2-(Diethylamino)ethyl-4-aminobenzoate	P-111
		Procaine	P-111
$C_{13}H_{24}O_4$	244.33	Brassylic acid	B-66
		Tridecanedioic acid	B-66
$C_{13}H_{28}O$	200.36	1-Tridecanol	T-62
		Tridecyl alcohol	T-62
$C_{14}H_8O_2$	208.21	9,10-Anthracenedione	A-64, A-65
		Anthraquinone	A-64, A-65
		9,10-Anthraquinone	A-64, A-65
$C_{14}H_8O_3$	224.21	1-Hydroxyanthraquinone	H-40
$C_{14}H_8O_4$	240.22	Alizarin	C-156
		C. I. Mordant Red 11	C-156
		C. I. Solvent Orange 86	D-44, D-45
		Danthron	D-46–D-48
		1,2-Dihydroxyanthraquinone	C-156
		1,4-Dihydroxyanthraquinone	D-44, D-45
		1,8-Dihydroxyanthraquinone	D-46–D-48
		Quinizarin	D-44, D-45
$C_{14}H_9Cl_5$	354.49	1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane	B-56
		DDT	B-56
		4,4′-DDT	B-56
		4,4′-Dichlorodiphenyl-trichloroethane	D-1

(*continued*)

Formula	MW	Solutes	Data Table No.
		1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	B-56, D-1
$C_{14}H_9NO_2$	223.23	9-Nitroanthracene	N-77, N-78
$C_{14}H_{10}$	178.23	Anthracene	A-18, A-27, A-40–A-63, F-40, N-49, P-65, P-66
		Phenanthrene	A-62, A-63, N-31–N-33, N-50, N-51, P-44–P-71
$C_{14}H_{10}Cl_2NNaO_2 \cdot 4H_2O$	390.21	Sodium 2-(2,6-dichloroanilino)phenyl acetate	D-36
$C_{14}H_{10}O_2S$	242.29	1-Hydroxy-3-methylthioxanthen-9-one	H-87
		1-Hydroxy-3-methylthioxanthone	H-87
$C_{14}H_{10}O_3$	226.23	1,8-Dihydroxyanthracen-9(10*H*)-one	D-49
		1,8-Dihydroxyanthrone	D-49
		1,8-Dihydroxy-9-anthrone	D-49
		1-Hydroxy-3-methyl-9*H*-xanthen-9-one	H-88
		1-Hydroxy-3-methylxanthone	H-88
$C_{14}H_{10}O_3S$	258.29	1,4-Dihydroxy-3-methyl-9*H*-thioxanthen-9-one	D-53
		1,4-Dihydroxy-3-methylthioxanthone	D-53
$C_{14}H_{11}Cl_2NO_2 \cdot Na$	318.13	Diclofenac sodium	D-36
$C_{14}H_{12}O_2$	212.24	Benzoin	B-27
		(±)-2-Hydroxy-1,2-diphenylethanone	B-27
		(±)-2-Hydroxy-2-phenylacetophenone	B-27
$C_{14}H_{12}O_3$	228.24	Resveratrol	R-4
		(*E*)-Resveratrol	R-4
		3,4′,5-Stilbenetriol	R-4
		3,4′,5-Trihydroxy-*trans*-stilbene	R-4
$C_{14}H_{14}$	182.26	Bibenzyl	B-34
		1,2-Diphenylethane	B-34
$C_{14}H_{14}N_2O$	226.27	*N*,*N*-Dimethylindoaniline	P-77, P-78
		Phenol Blue	P-77, P-78
$C_{14}H_{14}O_3$	230.26	(*S*)-2-(6-Methoxy-2-naphthyl)propionic acid	N-55–N-62
		Naproxen	N-55–N-62
		(+)-Naproxen	N-55–N-62
		(+)-(*S*)-Naproxen	N-55–N-62
$C_{14}H_{15}N_3$	225.29	4-Dimethylaminoazobenzene	D-61, D-62
		p-Dimethylaminoazobenzene	D-61, D-62
$C_{14}H_{20}$	188.31	Decahydro-3,5,1,7-[1,2,3,4]-butanetetraylnaphthalene	D-12
		Diadamantane	D-12
		Diamantane	D-12
$C_{14}H_{22}N_2O$	234.34	2-(Diethylamino)-2′,6′-acetoxylidide	L-9
		2-(Diethylamino)-*N*-(2,6-dimethylphenyl)acetamide	L-9
		Lidocaine	L-9
$C_{14}H_{27}N_3O_3$	285.39	*rac*-Boc-Piperazine	B-65
		(*S*)-Boc-Piperazine	B-64
		(*S*)-*tert*-Butyl 3-(*tert*-butylcarbamoyl)-piperazine-1-carboxylate	B-64

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{14}H_{28}CuN_2S_4$	416.18	Copper bis(dipropyldithiocarbamate)	C-189
$C_{14}H_{28}HgN_2S_4$	553.22	Mercury bis(dipropyldithiocarbamate)	M-11
$C_{14}H_{28}N_2PbS_4$	559.83	Bis(diisopropyldithiocarbamato)lead	L-6
	559.83	Lead bis(diisopropyldithiocarbamate)	L-6
$C_{14}H_{28}N_2PdS_4$	459.07	Bis(diisopropyldithiocarbamato)-palladium	P-4
	459.07	Palladium bis(diisopropyldithiocarbamate)	M-14, P-4
$C_{14}H_{28}O_2$	228.37	Myristic acid	M-65–M-67
		Tetradecanoic acid	M-65–M-67
$C_{15}H_3CrF_{18}O_6$	N/A	Chromium tris(hexafluoro-acetylacetonate)	M-13
$C_{15}H_3F_{18}O_6Y$	746.09	Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)yttrium	Y-2
		Yttrium(III) hexafluoroacetylacetonate	Y-2
		Yttrium tris(hexafluoroacetylacetonate)	Y-2
$C_{15}H_5Cl_2F_{15}O_2$	573.09	Pentadecafluorooctyl 2,5-dichloro-benzoate	P-33
$C_{15}H_7Cl_2F_{13}O_2$	537.10	2,5-Dichlorobenzoic acid 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	T-61
		Tridecafluorooctyl 2,5-dichlorobenzoate	T-61
$C_{15}H_{10}O_2$	222.24	Flavone	F-30, F-31
		2-Phenyl-4-chromone	F-30, F-31
$C_{15}H_{10}O_3$	238.24	Flavon-3-ol	H-82
		1-Hydroxy-2-methylanthraquinone	H-84
		3-Hydroxy-2-phenylchromone	H-82
		3-Hydroxyflavone	H-82
$C_{15}H_{10}O_4$	254.24	7,8-Dihydroxyflavone	D-52
		7,8-Dihydroxy-2-phenyl-4-benzopyrone	D-52
$C_{15}H_{10}O_5$	270.24	Emodin	E-8
		1,3,8-Trihydroxy-6-methylanthra-quinone	E-8
$C_{15}H_{10}O_7$	302.24	3,3′,4′,5,7-Pentahydroxyflavone	P-39, Q-1
		Quercetin	P-39, Q-1
$C_{15}H_{11}NO_2$	237.25	1-Amino-2-methylanthraquinone	A-32, C-116, C-117
		C. I. Disperse Orange 11	A-32, C-116, C-117
		C. I. Disperse Red 9	C-126
		1-(Methylamino)anthraquinone	C-126
$C_{15}H_{12}$	192.26	2-Methylanthracene	M-33, N-78
$C_{15}H_{12}AsF_{18}N_3S_6$	N/A	Arsenic tris[bis(trifluoroethyl)-dithiocarbamate]	M-15
$C_{15}H_{12}Br_4O_2$	543.87	4,4′-Isopropylidenebis[2,6-dibromop-henol]	T-10
		Tetrabromobisphenol-A	T-10
		2,2′,6,6′-Tetrabromobisphenol A	T-10
$C_{15}H_{12}Cl_2O_4$	327.16	Diclofop	P-43
		2-[4-(2,4-Dichlorophenoxy)-phenoxy]propanoic acid	P-43
$C_{15}H_{12}ClN_5O_4$	361.74	C. I. Modified Yellow 119	C-154

(*continued*)

Formula	MW	Solutes	Data Table No.
		5-(4-Chloro-2-nitrophenylazo)-3-cyano-1-ethyl-6-hydroxy-4-methyl-1*H*-pyridin-2-one	C-154
$C_{15}H_{12}CoF_{18}N_3S_6$	N/A	Cobalt tris[bis(trifluoroethyl)-dithiocarbamate]	M-12, M-13, M-15
$C_{15}H_{12}CrF_9O_6$	511.24	Chromium *cis*-tris(1,1,1-trifluoroacetylacetonate)	C-83
		Chromium *trans*-tris(1,1,1-trifluoroacetylacetonate)	C-84
		cis-Cr(tfa)$_3$	C-83
		trans-Cr(tfa)$_3$	C-84
		cis-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium	C-83
		trans-Tris(1,1,1-trifluoropentane-2,4-dionato)chromium	C-84
$C_{15}H_{12}F_{18}BiN_3S_6$	N/A	Bismuth tris[bis(trifluoroethyl)-dithiocarbamate]	M-12, M-13
$C_{15}H_{12}N_2O$	236.27	Carbamazepine	C-19, C-20
		Carbamazepine Polymorph I	C-21
		Carbamazepine Polymorph III	C-21
		5*H*-Dibenz[*b,f*]azepine-5-carboxamide	C-19–C-21
$C_{15}H_{12}N_2O_2$	252.27	5,5-Diphenylhydantoin	P-82
		5,5-Diphenyl-2,4-imidazolidinedione	P-82
		Phenytoin	P-82
$C_{15}H_{12}N_2O_3$	268.27	C. I. Disperse Red 11	C-127
		1,4-Diamino-2-methoxyanthraquinone	C-127
$C_{15}H_{12}O_2$	224.25	2-Benzoylacetophenone	D-19
		Dibenzoylmethane	D-19
		1,3-Diphenyl-1,3-propanedione	D-19
		1-Hydroxy-2-methylanthracen-9(10*H*)-one	H-85
		1-Hydroxy-2-methylanthrone	H-85
$C_{15}H_{13}FO_2$	244.26	2-Fluoro-α-methyl-4-biphenylacetic acid	F-43
		Flurbiprofen	F-43
$C_{15}H_{13}N_3O_4S$	331.35	4-Hydroxy-2-methyl-*N*-2-pyridinyl-2*H*-1,2-benzothiazine-3-carbox amide 1,1-dioxide	P-89
		Piroxicam	P-89
$C_{15}H_{13}O_4N_5$	327.30	C. I. Disperse Yellow 119	C-153
		1-Ethyl-6-hydroxy-4-methyl-5-(2-nitro-phenylazo)-2-oxo-1,2-dihydro-pyridine-3-carbonitrile	C-153
$C_{15}H_{14}O_6$	290.27	Catechin	C-44
		(+)-Catechin	C-44
		Epicatechin	E-10
		Epicatechol	E-10
		(+)-(2*R*,3*S*)-5,7,3′,4′-Tetrahydroxy-flavan-3-ol	C-44
		(−)-(2*R*,3*R*)-5,7,3′,4′-Tetrahydroxy-flavan-3-ol	E-10

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{15}H_{18}Br_3CrO_6$	586.01	Chromium tris(3-bromoacetylacetonate)	C-81
		$Cr(acac\text{-}Br)_3$	C-81
		Tris(3-bromopentane-2,4-dionato)chromium	C-81
$C_{15}H_{19}N_5O_4S$	365.41	C. I. Disperse Blue 102	C-105
		3-[Ethyl[3-methyl-4-[(5-nitro-2-thiazolyl)azo]phenyl]amino]-1,2-propanediol	C-105
$C_{15}H_{20}Cl_2O_2$	303.23	Octyl 2,5-dichlorobenzoate	O-18
$C_{15}H_{21}CoO_6$	356.26	$Co(acac)_3$	C-168
		Cobalt tris(acetylacetonate)	C-168
		Tris(2,4-pentanedionato)cobalt	C-168
$C_{15}H_{21}CrO_6$	349.32	Chromium tris(acetylacetonate)	C-80, M-13
		$Cr(acac)_3$	C-80
		Tris(pentane-2,4-dionato)chromium	C-80
$C_{15}H_{21}FeO_6$	353.17	$Fe(acac)_3$	I-4, I-5
		Iron tris(acetylacetonate)	I-4, I-5
		Tris(2,4-pentanedionato)iron	I-4, I-5
$C_{15}H_{21}GaO_6$	367.05	Gallium tris(acetylacetonate)	G-1
		Tris(2,4-pentanedionato)gallium	G-1
$C_{15}H_{21}InO_6$	412.15	Indium tris(acetylacetonate)	I-2
		Tris(2,4-pentanedionato)indium	I-2
$C_{15}H_{21}MnO_6$	352.27	Manganese tris(acetylacetonate)	M-3
		$Mn(acac)_3$	M-3
		Tris(2,4-pentanedionato)manganese	M-3
$C_{15}H_{21}O_6Y$	386.23	Tris(acetylacetonato)yttrium	Y-1
		Tris(2,4-pentanedionato)yttrium	Y-1
		Yttrium tris(acetylacetonate)	Y-1
$C_{15}H_{22}O_5$	282.33	Artemisinin	A-69
		(3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one	A-69
$C_{15}H_{26}O_6$	302.36	Glycerin tributyrate	T-53, T-54
		Glycerol tributanoate	T-53, T-54
		Tributanoin	T-53, T-54
		Tributyrin	T-53, T-54
$C_{15}H_{28}O_2$	240.38	Oxacyclohexadecan-2-one	P-35
		Pentadecanolactone	P-35
		15-Pentadecanolide	P-35
$C_{15}H_{30}BiN_3S_6$	N/A	Bismuth tris(diehtyldithiocarbamate)	M-12, M-13
$C_{15}H_{30}CoN_3S_6$	N/A	Cobalt tris(diethyldithiocarbamate)	M-12, M-13
$C_{15}H_{30}N_3RhS_6$	N/A	Rhodium tris(diethyldithiocarbamate)	M-14
$C_{15}H_{30}O_4$	274.40	Glycerin monolaurate	M-62
		Glycerol monododecanoate	M-62
		Monolaurin	M-62
$C_{15}H_{33}O$	229.42	1-Pentadecanol	P-34
$C_{16}H_8CuF_6O_4S_2$	505.89	Bis[4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedionato]copper	C-185
		Copper bis(thenoyltrifluoroacetonate)	C-185

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{16}H_{10}$	202.25	Benzo[*j,k*]fluorene	F-33–F-35
		Benzo[*def*]phenanthrene	P-129–P-137
		Fluoranthene	A-3, F-33–F-35
		Pyrene	P-129–P-137
$C_{16}H_{11}N_3O_3$	293.28	C. I. Pigment Red 1	P-18
		1-(4-Nitrophenylazo)-2-naphthol	P-18
		Para red	P-18
$C_{16}H_{12}O_4$	268.26	1-Hydroxy-2-(methoxymethyl)anthraquinone	H-44
$C_{16}H_{13}ClN_2O$	284.74	7-Chloro-1-methyl-5-phenyl-3*H*-1,4-benzodiazepin-2(1*H*)-one	D-13
		Diazepam	D-13
$C_{16}H_{13}N_3O$	263.30	1-((4-Aminophenyl)azo)-2-naphthol	A-33
$C_{16}H_{13}NO_2$	251.28	1-Amino-2,3-dimethylanthraquinone	A-28
		1-Amino-2,4-dimethylanthraquinone	A-29
		1-Amino-2-ethylanthraquinone	A-30
$C_{16}H_{14}Cl_2O_4$	341.19	Diclofopmethyl	P-43
		Methyl 2-[4-(2,4-dichlorophenoxy)phenoxy]propanoate	P-43
$C_{16}H_{14}N_2O_2$	266.30	1,4-Bis(methylamino)anthraquinone	B-46, C-92, C-93
		C. I. Disperse Blue 14	B-46, C-92, C-93
$C_{16}H_{14}N_4$	262.31	C. I. Solvent Brown 1	C-162
		Fat Brown RR	C-162
		4-(1-Naphthalenylazo)-1,3-benzenediamine	C-162
$C_{16}H_{14}N_4O$	278.31	C. I. Disperse Yellow 16	C-108, C-147
		3-Methyl-1-phenyl-4-(phenylazo)-pyrazol-5-ol	C-147
$C_{16}H_{14}O_2$	238.28	2-Ethyl-1-hydroxyanthracen-9(10*H*)-one	H-81
		4-Hydroxy-1,3-dimethylanthracen-10(9*H*)-one	H-80
		1-Hydroxy-2,4-dimethylanthrone	H-80
		1-Hydroxy-2-ethylanthrone	H-81
$C_{16}H_{14}O_3$	254.28	*m*-Benzoylhydratropic acid	K-1–K-3
		2-(3-Benzoylphenyl)propionic acid	K-1–K-3
		Ketoprofen	K-1–K-3
$C_{16}H_{15}Cl_3O_2$	345.65	DMDT	M-22
		Methoxychlor	M-22, P-43
		1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane	M-22, P-43
$C_{16}H_{16}N_2O_2$	268.31	*N*,*N*′-Bis(salicylidene)-1,2-ethanediamine	S-1
		α,α′-Ethylenedinitrilodi-*o*-cresol	S-1
		Salen	S-1
$C_{16}H_{17}ClN_4O_3$	348.79	C. I. Disperse Red 13	C-128
		4-Nitro-2-chloro-4′-[ethyl(2-hydroxyethyl)amino]azobenzene	C-128
$C_{16}H_{17}ClN_4O_4$	364.78	C. I. Disperse Red 30	C-129
		2,2′-[[4-[(2-Chloro-4-nitrophenyl)-azo]phenyl]imino]bisethanol	C-129

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{16}H_{18}N_2O_4S$	334.39	Benzylpenicillin	P-19
		Penicillin G	P-19
$C_{16}H_{18}N_2O_5S$	350.39	Penicillin V	P-20
		Phenoxymethylpenicillin	P-20
$C_{16}H_{18}N_4O_3$	314.35	C. I. Disperse Red 1	C-123–C-125
		N-Ethyl-*N*-(2-hydroxyethyl)-4-[(*p*-nitrophenyl)azo]aniline	C-123–C-125
$C_{16}H_{19}N_3O_5S$	365.40	C. I. Disperse Yellow 86	C-151
		4-(4-Ethoxyanilino)-*N*,*N*-dimethyl-3-nitrobenzenesulfonamide	C-151
$C_{16}H_{20}N_4O_2$	300.36	4-Amino-4′-[bis(2-hydroxyethyl)amino]-azobenzene	C-89
		C. I. Disperse Black 9	C-89
$C_{16}H_{21}NO_2$	259.35	1-(Isopropylamino)-3-(1-naphthyloxy)-2-propanol	P-122
		Propranolol	P-112
$C_{16}H_{22}ClN_3O$	307.82	1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	T-3
		Tebuconazole	T-3
$C_{16}H_{22}O_{11}$	390.34	β-D-Galactopyranose pentaacetate	P-21
		β-D-Galactose pentaacetate	P-21
		D-Glucopyranose pentaacetate	P-22
		D-Glucose pentaacetate	P-22
		1,2,3,4,6-Pentaacetyl-D-galactose	P-21
		1,2,3,4,6-Pentaacetyl-D-glucose	P-22
$C_{16}H_{23}NO_6$	325.36	Monocrotaline	M-60, M-61
$C_{16}H_{26}Cl_2Si_2Zr$	434.00	Dichlorobis[η^5-(trimethylsilyl)-cyclopentadienyl]zirconium	C-214
$C_{16}H_{26}CuO_4$	345.93	Bis(5,5-dimethylhexane-2,4-dionato)-copper	C-179
		Copper bis(5,5-dimethylhexane-2,4-dionate)	C-179
		$Cu(dmhd)_2$	C-179
$C_{16}H_{32}O_2$	256.42	Ethyl myristate	E-21
		Hexadecanoic acid	P-6–P-13
		Myristic acid ethyl ester	E-21
		Palmitic acid	P-6–P-13
		Tetradecanoic acid ethyl ester	E-21
$C_{16}H_{34}$	226.44	Hexadecane	H-19–H-21
		Rape seed oil	R-1
$C_{16}H_{34}O$	242.44	Cetyl alcohol	C-47–C-51
		Dicaprylyl ether	D-83
		Dioctyl ether	D-83
		1-Hexadecanol	C-47–C-51
		Octyl ether	D-83
		Palmityl alcohol	C-47–C-51
$C_{16}H_{35}O_4P$	322.42	Bis(2-ethylhexyl) phosphate	D-41
		Di-(2-ethylhexyl)phosphoric acid	D-41

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{17}H_{12}O_4$	280.27	1-Hydroxy-4-(prop-2-enyloxy)-anthraquinone	H-45
		1-Hydroxy-8-(prop-2-enyloxy)-anthraquinone	H-46
$C_{17}H_{14}O_3$	266.30	1,8-Dihydroxy-2-(prop-2′-enyl)-anthracen-9-one	D-54
		1,8-Dihydroxy-2-(prop-2′-enyl)anthrone	D-54
$C_{17}H_{14}O_4$	282.29	1-Hydroxy-2-(ethoxymethyl)-anthraquinone	H-42
$C_{17}H_{14}O_5$	298.29	Dimethyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate	D-76
		Dimethyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate	D-76
$C_{17}H_{16}N_2O_3$	296.32	C. I. Disperse Blue 3	C-90, C-91
		1,4-Diaminoanthraquinone, *N*,*N*′-mixed 2-hydroxyethyl and methyl derivatives	C-90, C-91
$C_{17}H_{17}ClN_6O_3$	388.81	4-Methyl-6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]-pyrazin-5-yl ester	Z-3
		1-Piperazinecarboxylic acid	Z-3
		Zopiclone	Z-3
$C_{17}H_{17}ClO_6$	352.77	7-Chloro-2′,4,6-trimethoxy-6′-methylspiro[benzofuran-2(3*H*),1′-[2] cyclohexene]-3,4′-dione	G-10
		Griseofulvin	G-10
$C_{17}H_{17}N_5O_2$	323.35	C. I. Disperse Orange 25	C-113, C-119
		4-[*N*-(2-Cyanoethyl)-*N*-ethylamino]-4′-nitroazobenzene	C-113, C-119
$C_{17}H_{18}N_2$	250.34	2,8-Dimethyl-6*H*,12*H*-5,11-methano-dibenzo[*b*,*f*][1,5]diazocine	T-104
		Troeger's Base	T-104
$C_{17}H_{18}N_2O_6$	346.33	Nifedipine	N-72
		4-(2-Nitrophenyl)-2,6-dimethyl-3,5-dicarbomethoxy-1,4-dihydropyridine	N-72
$C_{17}H_{20}N_2O$	268.35	*N*,*N*′-Diethylcarbanilide	E-16
		N,*N*-Diethyl-*N*,*N*′-diphenylurea	E-16
		Ethyl centralite	E-16
$C_{17}H_{23}NO_3$	289.37	Atropine	A-79
		Tropine tropate	A-79
$C_{17}H_{24}Cl_2O_2$	331.28	Decyl 2,5-dichlorobenzoate	D-10
$C_{17}H_{36}$	240.47	Heptadecane	H-6
$C_{18}F_{15}P$	532.14	Tris(pentafluorophenyl)phosphine	T-100
$C_{18}H_{11}NO_3$	289.28	C. I. Disperse Yellow 54	C-149
		C. I. Solvent Yellow 114	C-149
		2-(3-Hydroxy-2-quinolyl)-1,3-indanedione	C-149
$C_{18}H_{12}$	228.29	1,2-Benzophenanthrene	C-85–C-88
		9,10-Benzophenanthrene	T-92, T-93
		Chrysene	C-85–C-88
		1,2,3,4-Dibenznaphthalene	T-92, T-93

(*continued*)

Formula	MW	Solutes	Data Table No.
		Triphenylene	A-3, T-92, T-93
$C_{18}H_{12}F_3P$	316.26	Tris(4-fluorophenyl)phosphine	T-99
		Tris(*p*-fluorophenyl)phosphine	T-99
$C_{18}H_{14}$	230.30	1,3-Diphenylbenzene	T-6
		m-Terphenyl	T-6
$C_{18}H_{14}Cl_4N_2O$	416.12	1-[2-(2,4-Dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-1*H*-imidazole	M-55
		Miconazole	M-55
$C_{18}H_{15}N$	245.32	*N*,*N*-Diphenylbenzenamine	T-91
		Triphenylamine	T-91
$C_{18}H_{15}N_3O_4S$	369.39	4-Anilino-3-nitrobenzenesulfonanilide	C-148
		C. I. Disperse Yellow 42	C-148
$C_{18}H_{15}N_5SCl_2$	404.32	C. I. Disperse Red 153	C-139
		3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]phenyl]ethylamino]propanenitrile	C-139
$C_{18}H_{15}O_4P$	326.28	Phosphoric acid triphenyl ester	T-96
		Triphenylphosphate	T-96
$C_{18}H_{15}P$	262.29	Triphenylphosphine	T-97, T-98
		Triphenylphosphorous	T-97, T-98
$C_{18}H_{16}O_4$	293.23	1-Hydroxy-2-(1-propoxymethyl)anthraquinone	H-47
$C_{18}H_{18}N_2O_2$	294.35	1,4-Bis(ethylamino)anthraquinone	B-43
		C. I. Solvent Blue 105	B-43
$C_{18}H_{20}N_2O_6$	360.36	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridine-dicarboxylic acid ethyl methyl ester	N-75
		Nitrendipine	N-75
$C_{18}H_{21}NO_3$	299.36	Codeine	C-171
		Methylmorphine	C-171
$C_{18}H_{24}O_2$	272.38	β-Estradiol	E-14, E-15
		Estra-1,3,5(10)-triene-3,17-diol	E-14, E-15
$C_{18}H_{27}NO_3$	305.41	Capsaicin	C-16–C-18
		(*E*)-8-Methyl-*N*-vanillyl-6-nonenamide	C-16–C-18
$C_{18}H_{30}CuO_4$	373.98	Bis(2,6-dimethylheptane-3,5-dionato)copper	C-178
		Copper bis(2,6-dimethylheptane-3,5-dionate)	C-178
		$Cu(dibm)_2$	C-178
$C_{18}H_{32}O_2$	280.45	Linoleic Acid	L-24, L-25
		(*Z*)-9-Octadecenoic acid	O-21–O-26
		Oleic acid	O-21–O-27
$C_{18}H_{36}CuN_2S_4$	472.28	Copper bis(dibutyldithiocarbamate)	C-189
	609.33	Mercury bis(dibutyldithiocarbamate)	M-11
$C_{18}H_{36}N_2PdS_4$	N/A	Palladium bis(dibutydithiocarbamate)	M-14
	N/A	Palladium bis(diisobutyl-ldithiocarbamate)	M-14
$C_{18}H_{36}O_2$	284.48	Ethyl hexadecanoate	E-24, E-25
		Ethyl palmitate	E-24, E-25

(*continued*)

Formula	MW	Solutes	Data Table No.
		Octadecanoic acid	S-15–S-29
		Palmitic acid ethyl ester	E-24, E-25
		Stearic acid	S-16–S-29
$C_{18}H_{38}$	254.49	Octadecane	O-10, O-11
$C_{18}H_{38}NO_4P$	363.47	Dihexyl(diethylcarbamoyl)-methylphosphonate	D-43
		Dihexyl-(*N*,*N*-diethylcarbamoyl)-methylphosphonate	D-43
$C_{18}H_{38}O$	270.49	1-Octadecanol	O-12–O-15, S-30–S-32
		n-Octadecyl alcohol	O-12–O-15, S-30–S-32
		Stearyl alcohol	S-30–S-32
		1-Stearyl alcohol	O-12–O-15
$C_{18}H_{38}O_6$	350.49	Octyl pentaethylene glycol ether	P-36
		Octylpentaglycol	P-36
		Pentaethylene glycol *n*-octyl ether	P-36
$C_{18}H_{38}S$	268.56	1-Octadecanethiol	O-16
		Octadecylmercaptan	O-16
		Stearyl mercaptan	O-16
$C_{18}H_{39}N$	269.51	*N*,*N*-Dihexyl-1-hexanamine	T-66
		Trihexylamine	T-66
$C_{19}H_{16}$	244.33	1,1′,1″-Methylidynetrisbenzene	T-94, T-95
		Triphenylmethane	T-94, T-95
$C_{19}H_{16}N_4O$	316.36	C. I. Disperse Yellow 7	C-145, C-146
		2-Methyl-4-[[4-(phenylazo)phenyl]-azo]phenol	C-145, C-146
$C_{19}H_{17}Cl_2N_5O_4$	450.27	C. I. Disperse Orange 30	C-113, C-120, C-121
		4-[(2,6-Dichloro-4-nitrophenyl)azo]-*N*-(cyanoethyl)-*N*-(acetoxyethyl) aniline	C-113, C-120, C-121
$C_{19}H_{17}Cl_2N_5S$	418.34	C. I. Disperse Red 152	C-138
		3-[[4-[[5,6(or 6,7)-Dichloro-2-benzothiazolyl]azo]-3-methylphenyl] ethylamino]propanenitrile	C-138
$C_{19}H_{18}O_4$	310.34	1-Hydroxy-2-(1-butoxymethyl)-anthraquinone	H-41
		1-Hydroxy-2-(isobutoxymethyl)-anthraquinone	H-43
$C_{19}H_{19}N_7O_5$	425.40	C. I. Disperse Blue 165:1	C-109
		N-[2-[(2-Cyano-4,6-dinitrophenyl)azo]-5-(diethylamino)phenyl] acetamide	C-109
$C_{19}H_{21}BrN_6O_6$	509.31	*N*-[2-[(2-Bromo-4,6-dinitrophenyl)azo]-5-(diethylamino)-4-methoxy phenyl]-acetamide	C-110
		C. I. Disperse Blue 291	C-110
$C_{19}H_{24}N_2HCl$	316.87	5-[3-(Dimethylamino)propyl]-10,11-dihydro-5H-dibenz[*b*,*f*]azepine hydrochloride	I-1
		Imipramine hydrochloride	I-1
$C_{19}H_{26}O_7$	366.41	Anguidin	D-11
		Diacetoxyscirpenol	D-11

(*continued*)

Formula	MW	Solutes	Data Table No.
		12,13-Epoxytrichothec-9-ene-3a,4b,15-triol 4,15-diacetate	D-11
$C_{19}H_{28}O_2$	288.42	17β-Hydroxyandrost-4-en-3-one	T-7, T-8
		Testosterone	C-79, P-114, T-7, T-8
$C_{19}H_{30}O_5$	338.44	Dodecyl gallate	D-94
		Dodecyl 3,4,5-trihydroxybenzoate	D-94
		Gallic acid dodecyl ester	D-94
$C_{19}H_{37}N$	279.50	1-Cyanooctadecane	N-87
		Nonadecanenitrile	N-87
		Octadecyl cyanide	N-87
$C_{19}H_{38}O$	282.50	Heptadecyl methyl ketone	N-88
		2-Nonadecanone	N-88
$C_{19}H_{40}$	268.53	Nonadecane	N-85, N-86
$C_{20}H_{12}$	252.31	Dibenz[*de,kl*]anthracene	P-40–P-42
		Perylene	P-40–P-42
		α-Perylene	P-40–P-42
$C_{20}H_{12}CuF_6O_4$	493.85	Bis(4,4,4-trifluoro-1-phenylbutane-1,3-dionato)copper	C-187
		Copper bis(1,1,1-trifluoro-4-phenyl-butane-2,4-dionate)	C-187
		$Cu(tfbzm)_2$	C-187
$C_{20}H_{12}N_2O_6$	376.32	1-Anilino-4,5-dihydroxy-8-nitro-anthraquinone	C-99
		C. I. Disperse Blue 77	C-99
$C_{20}H_{13}NO_4$	331.33	1-Amino-4-hydroxy-2-phenoxy-anthraquinone	C-113, C-130–C-135
		C. I. Disperse Red 60	C-113, C-130–C-135
$C_{20}H_{14}N_2O_4$	346.34	1-Amino-4,5-dihydroxy-8-(phenylamino)anthraquinone	C-106
		C. I. Disperse Blue 118	C-106
$C_{20}H_{16}O_4$	320.34	1,4-Bis(allyloxy)anthraquinone	B-53, B-54
		1,4-Bis(prop-2′-enyloxy)anthraquinone	B-53
		1,8-Bis(prop-2′-enyloxy)anthraquinone	B-54
		1,8-Dihydroxy-2,7-bis (prop-1′-enyl)-anthraquinone	D-51
$C_{20}H_{17}N_3O_5$	379.37	C. I. Disperse Blue 60	C-95–C-97
		C. I. Disperse Blue 99	C-95–C-97
		1,4-Diamino-*N*-(3-methoxypropyl)-anthraquinone-2,3-dicarboximide	C-95–C-97
$C_{20}H_{19}N_3O_2$	333.38	3-(2-Benzimidazolyl)-7-(diethylamino)-coumarin	C-150
		C. I. Disperse Yellow 82	C-150
$C_{20}H_{22}N_2O_2$	322.41	1,4-Bis(isopropylamino)anthraquinone	B-45, C-107
		1,4-Bis(propylamino)anthraquinone	B-55
		C. I. Disperse Blue 134	B-45, C-107, C-108
$C_{20}H_{28}O_3$	316.43	Cafesterol	C-1
		Cafestol	C-1
$C_{20}H_{30}O$	286.45	(all-E)-3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraen-1-ol	R-5

(*continued*)

Formula	MW	Solutes	Data Table No.
		Retinol	R-5
		all-*trans*-Retinol	R-5
		Vitamin A	R-5
$C_{20}H_{38}O_2$	310.51	Ethyl oleate	E-22, E-23
		(*Z*)-9-Octadecenoic acid ethyl ester	E-22, E-23
		Oleic acid ethyl ester	E-22, E-23
$C_{20}H_{40}O_2$	312.53	Arachidic acid	E-4
		Eicosanoic acid	E-4
		Ethyl octadecanoate	E-26
		Ethyl stearate	E-26
		Stearic acid ethyl ester	E-26
$C_{20}H_{42}$	282.55	Eicosane	E-2, E-3
$C_{20}H_{42}O$	298.55	Arachidyl alcohol	A-67, E-5
		1-Eicosanol	A-67, E-5
$C_{20}H_{42}O_5$	362.54	Tetraethylene glycol lauryl ether	T-29
		Tetraethylene glycol monododecyl ether	T-29
$C_{20}H_{43}O_4P$	378.53	Bis(8-methylnonyl) hydrogen phosphate	D-57
		Diisodecyl phosphoric acid	D-57
$C_{21}H_{12}F_9P$	466.29	Tris(*p*-trifluoromethylphenyl)phosphine	T-101
$C_{21}H_{20}O_9$	416.38	3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-1,8-dihydroxy-6-methyl anthaquinone	F-44
		Frangulin A	F-44
$C_{21}H_{21}N_5O_6$	439.43	C. I. Disperse Red 82	C-136
		3-Nitro-6-[4-[*N*,*N*-di(acetoxyethyl)-amino]phenyl]azobenzonitrile	C-136
$C_{21}H_{22}F_2O_8$	440.40	3(6),3′(6′)-Difluorodibenzo-16-crown-5-oxyacetic acid	L-2
		Lariat ether carboxylic acid, ring-fluorinated	L-2
$C_{21}H_{24}O_8$	404.42	Dibenzo-16-crown-5-oxyacetic acid	L-2
		Lariat ether carboxylic acid, non-fluorinated	L-2
$C_{21}H_{26}N_2O_7$	418.44	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridine-dicarboxylic acid 2-methoxyethyl 1-methylethyl ester	N-74
		Nimodipine	N-74
$C_{21}H_{26}O_5$	358.43	1,2-Dehydrocortisone	P-110
		17,21-Dihydroxy-1,4-pregnadiene-3,11,20-trione	P-110
		Prednisone	P-110
$C_{21}H_{28}O_5$	360.44	1,2-Dehydrohydrocortisone	P-109
		Prednisolone	P-109
		11β,17,21-Trihydroxy-1,4-pregnadiene-3,20-dione	P-109
$C_{21}H_{30}O_2$	314.46	Pregn-4-ene-3,20-dione	P-112
		Progesterone	P-112–P-114
$C_{21}H_{30}O_5$	362.46	Cortisol	H-33
		Hydrocortisone	H-33

(*continued*)

Formula	MW	Solutes	Data Table No.
		11β,17α,21-Trihydroxypregn-4-ene-3,20-dione	H-33
$C_{21}H_{36}O_2$	296.49	Methyl oleate	M-48–M-50
		(*Z*)-9-Octadecenoic acid methyl ester	M-48–M-50
		Oleic acid methyl ester	M-48–M-50
$C_{21}H_{38}O_6$	386.52	Glycerin trihexanoate	T-56
		Glycerol tricaproate	T-56
		Tricaproin	T-56
		Trihexanoin	T-56
$C_{21}H_{40}O_4$	356.55	Glycerin monooleate	M-63, M-64
		Glycerol monooleate	M-63, M-64
		Monoolein	M-63, M-64
$C_{21}H_{42}N_3RhS_6$	631.87	Rhodium tris(diisopropyl-dithiocarbamate)	M-14, R-6
		Tris(diisopropyldithiocarbamato)-rhodium	R-6
$C_{21}H_{44}$	296.58	Heneicosane	H-1
$C_{22}H_{12}$	276.33	Benzo[*ghi*]perylene	B-29
		1,12-Benzoperylene	B-29
$C_{22}H_{16}N_2O_7$	420.37	C. I. Disperse Blue 27	C-94
		1,8-Dihydroxy-4-(*p*-2-hydroxy-ethylanilino)-5-nitroanthra-quinone	C-94
$C_{22}H_{16}N_4O$	352.39	C. I. Disperse Orange 13	C-118
		4-[4-(Phenylazo)-1-naphthylazo]phenol	C-118
$C_{22}H_{19}NO_4$	361.39	Bisacodyl	B-39
		4,4′-(2-Pyridylmethylene)bisphenol diacetate	B-39
$C_{22}H_{22}N_4Ni$	401.15	Nickel complex	N-64–N-66
		(5,7,12,14-Tetramethyl-2,3:9,10-dibenzo-[*b*,*i*][1,4,8,11]tetraaza cyclotetradecine)nickel (II).	N-64–N-66
$C_{22}H_{24}N_6O_9$	516.46	*N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2,4-dinitrophenyl)azo] phenyl]-acetamide	C-144
		C. I. Disperse Violet 91	C-144
$C_{22}H_{26}N_2O_2$	350.46	1,4-Bis(butylamino)anthraquinone	B-40, B-41, C-161
		C. I. Solvent Blue 35	B-40, B-41, C-161
		Sudan Blue II	C-161
$C_{22}H_{29}FO_5$	392.46	Betamethasone	B-32
		9α-Fluoro-16β-methylprednisolone	B-32
$C_{22}H_{32}O_3$	344.49	17β-(1-Oxopropoxy)-androst-4-en-3-one	T-9
		Testosterone-17-propionate	T-9
$C_{22}H_{34}O_2$	330.50	Eicosapentaenoic acid ethyl ester	E-6
		(*all Z*)-5,8,11,14,17-Eicosapentaenoic acid ethyl ester	E-6
		Ethyl eicosapentaenoate	E-6
$C_{22}H_{36}N_4O_3$	404.55	4-(Hexadecylamino)-7-nitrobenz-2-oxa-1,3-diazole	H-22

(*continued*)

Formula	MW	Solutes	Data Table No.
		N-Hexadecyl-7-nitro-4-benzofurazanamine	H-22
		NBD	H-22
$C_{22}H_{36}O_2$	332.52	Arachidonic acid ethyl ester	A-66
		(*all Z*)-5,8,11,14-Eicosatetraenoic acid ethyl ester	A-66
		Ethyl arachidonate	A-66
$C_{22}H_{38}CuO_4$	430.09	Bis(2,2,6,6-tetramethylheptane-3,5-dionato)copper	C-183, C-184
		Bis(2,2,7-trimethyloctane-3,5-dionato)copper	C-188
		Copper bis(2,2,6,6-tetramethylheptane-3,5-dionate)	C-183, C-184
		Copper bis(2,2,7-trimethyloctane-3,5-dionate)	C-188
		$Cu(thd)_2$	C-183, C-184
		$Cu(tod)_2$	C-188
$C_{22}H_{38}O_2$	334.54	Eicosatrienoic acid ethyl ester	E-7
$C_{22}H_{38}O_4Pd$	472.94	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)palladium	P-3
		Palladium bis(2,2,6,6-tetramethyl-3,5-heptanedionate)	P-3
		$Pd(thd)_2$	P-3
$C_{22}H_{38}O_7$	414.53	L-Ascorbic acid 6-hexadecanoate	A-71
		Ascorbyl palmitate	A-71
		Ascorbic acid 6-palmitate	A-71
$C_{22}H_{44}CuN_2S_4$	528.39	Copper bis(dipentyldithiocarbamate)	C-189
$C_{22}H_{44}HgN_2S_4$	665.43	Mercury bis(dipentyldithiocarbamate)	M-11
$C_{22}H_{44}N_2PdS_4$	N/A	Palladium bis(dipentyldithiocarbamate)	M-14
$C_{22}H_{44}O_2$	340.58	Behenic acid	B-4–B-7
		Docosanoic acid	B-4–B-7
$C_{22}H_{46}$	310.60	Docosane	D-92
$C_{23}H_{25}BrN_6O_{10}$	625.38	*N*-[5-[Bis[2-(acetyloxy)ethyl]amino]-2-[(2-bromo-4,6-dinitrophenyl) azo]-4-methoxyphenyl]acetamide	C-103, C-104
		4-(6-Bromo-2,4-dinitrophenylazo)-3-acetylamino-6-methoxy-*N*-bis (acetoxyethyl)aniline	C-103, C-104
		C. I. Disperse Blue 79:1	C-103, C-104
$C_{23}H_{26}ClN_5O_7$	519.93	*N*-[5-[Bis[2-(acetyloxy)ethyl] amino]-2-[(2-chloro-4-nitrophenyl)azo] phenyl]propanamide	C-140
		C. I. Disperse Red 167	C-140
$C_{23}H_{26}O_5$	382.46	Di-*tert*-butyl 3*H*-benzo[*f*]chromene-2,3-dicarboxylate	D-20
		Di-*tert*-butyl 3*H*-naphtho[2,1-*b*]pyran-2,3-dicarboxylate	D-20
$C_{23}H_{30}O_6$	402.48	21-Acetoxy-17α-hydroxypregn-4-ene-3,11,20-trione	C-191
		Cortisone acetate	C-191

(*continued*)

Formula	MW	Solutes	Data Table No.
		Cortisone 21-acetate	C-191
$C_{24}H_{20}CoOP$	413.31	Carbonyl-π-cyclopentadienyl-(triphenylphosphine)cobalt	C-27
		Carbonyl(η^5-cyclopentadienyl)-(triphenylphosphine)cobalt	C-27
$C_{24}H_{27}BrN_6O_{10}$	639.42	*N*-[5-[Bis[2-(acetyloxy)ethyl]amino]-2-[(2-bromo-4,6-dinitrophenyl) azo]-4-ethoxyphenyl]acetamide	C-100–C-102
		C. I. Disperse Blue 79	C-100–C-102
$C_{24}H_{29}ClO_4$	416.94	6-Chloro-1,2α-methylene-6-dehydro-17α-hydroxyprogesterone acetate	C-216
		Cyproterone acetate	C-216, M-5
$C_{24}H_{30}N_2O_2$	378.51	1,4-Bis(pentylamino)anthraquinone	B-52
		C. I. Solvent Blue 14	B-52
$C_{24}H_{32}O_4$	384.51	17α-Acetoxy-6-dehydro-6-methyl-progesterone	M-6
		Megestrol acetate	M-6
$C_{24}H_{32}O_8$	448.51	Dibenzo-24-Crown-8	D-14
		6,7,9,10,12,13,20,21,23,24,26,27-Dodecahydrodibenz[b,n][1,4,7,10,13,16,19,22]octaoxacyclotetracosin	D-14
$C_{24}H_{34}O_4$	386.52	17α-Acetoxy-6α-methylprogesterone	M-4
		Medroxyprogesterone acetate	M-4, M-5
$C_{24}H_{36}O_2$	356.54	Docosahexaenoic acid ethyl ester	D-90, D-91
		(*all-Z*)-4,7,10,13,16,19-Docosahexaenoic acid ethyl ester	D-90, D-91
		Ethyl docosahexaenoate	D-90, D-91
$C_{24}H_{38}O_4$	390.56	Bis(2-ethylhexyl) phthalate	D-84
		Dioctyl phthalate	D-84
$C_{24}H_{42}NO_2P$	407.57	Octyl(phenyl)(*N*,*N*-diisobutylcarbamoyl)methylphosphine oxide	O-19
$C_{24}H_{50}$	338.65	Tetracosane	T-17–T-22
$C_{24}H_{50}S$	370.72	Didodecylsulfane	D-39
		Didodecylthioether	D-39
$C_{24}H_{51}N$	353.67	Didodecylamine	D-37
		Di-*n*-dodecylamine	D-37
		Dilaurylamine	D-37
		Tricaprylylamine	T-79
		Trioctylamine	T-79
		Tri-*n*-octylamine	T-79
$C_{24}H_{51}OP$	386.63	Trioctylphosphine oxide	T-81, U-4
		Tri-*n*-octylphosphine oxide	T-81
$C_{24}H_{51}P$	370.64	Didodecylphosphine	D-38
		Dilaurylphosphine	D-38
		Trioctylphosphine	T-80
		Tri-*n*-octylphosphine	T-80
$C_{25}H_{32}O_2$	280.45	(*Z*,*Z*)-9,12-Octadecadienoic acid	L-24, L-25
$C_{25}H_{52}$	352.68	Pentacosane	P-31, P-32
$C_{26}H_{36}O_9$	492.56	Dibenzo-27-Crown-9	D-15

(*continued*)

Formula	MW	Solutes	Data Table No.
		6,7,9,10,12,13,15,16,23,24,26,27,29,30-Tetradecahydrodibenzo [*b*,*n*] [1,4,7,10,13,16,19,22,25]-nonaoxacycloheptacosin	D-15
$C_{26}H_{42}O_4$	418.61	Dinonyl 1,2-benzenedicarboxylate	D-79–D-82
		Dinonyl phthalate	D-79–D-82
$C_{26}H_{52}CuN_2S_4$	584.50	Copper bis(dihexyldithiocarbamate)	C-189
$C_{26}H_{52}HgN_2S_4$	721.54	Mercury bis(dihexyldithiocarbamate)	M-11
$C_{26}H_{54}$	366.71	Hexacosane	H-17, H-18
$C_{27}H_{44}O$	384.64	Cholecalciferol	V-9, V-10
		Vitamin D_3	V-9, V-10
$C_{27}H_{46}O$	386.65	Cholest-5-en-3β-ol	C-64–C-74
		Cholesterol	C-64–C-74, C-79, P-113
$C_{27}H_{46}O_2$	402.65	[2*R*[2*R**(4*R**,8*R**)]]-3,4-Dihydro-2,8-dimethyl-2-(4,8,12-trimethyl tridecyl)-2*H*-benzopyran-6-ol	T-49, T-50
		δ-Tocopherol	T-49, T-50
		Dδ-Tocopherol	T-49, T-50
$C_{27}H_{50}O_6$	470.68	Glycerin trioctanoate	T-57
		Glycerol tricaprylate	T-57
		Tricaprylin	T-57
		Trioctanoin	T-57
$C_{27}H_{52}O_5$	456.70	Didodecanoyl glycerol	D-58
		Dilaurin	D-58
		Glycerol dilaurate	D-58
$C_{27}H_{54}N_3RhS_6$	N/A	Rhodium tris(dibutyldithiocarbamate)	M-14
	N/A	Rhodium tris(diisobutyldithiocarbamate)	M-14
$C_{27}H_{56}$	380.73	Heptacosane	H-5
$C_{28}H_{24}O_4$	424.49	Calix[4]arene	C-12
		Calix[4]arene-25,26,27,28-tetrol	C-12
$C_{28}H_{37}ClO_7$	521.04	Beclomethasone-17,21-dipropionate	B-2
		9α-Chloro-16β-methylprednisolone 17,21-dipropionate	B-2
$C_{28}H_{37}FO_7$	504.59	Betamethasone-17,21-dipropionate	B-33
$C_{28}H_{40}O_{10}$	536.61	Dibenzo-30-Crown-10	D-16
		6,7,9,10,12,13,15,16,23,24,26,27,29,30,32,33-Hexadecahydro dibenzo-[*b*,*q*][1,4,7,10,13,16,19,22,25,28]-decaoxacyclotriacontin	D-16
$C_{28}H_{44}O$	396.65	Calciferol	V-7, V-8
		Ergocalciferol	V-7, V-8
		(3β,22*E*)-Ergosta-5,7,22-trien-3-ol	E-11, E-12
		Ergosterol	E-11, E-12, S-34
		24-Methylcholesta-5,7,22-trien-3β-ol	E-11, E-12
		Vitamin D_2	V-7, V-8
$C_{28}H_{58}$	394.76	Octacosane	O-1–O-9
$C_{29}H_{26}F_6O_8$	616.51	[3,5-Di(trifluoromethyl)phenyl]dibenzo-16-crown-5-oxyacetic acid	L-2
		Lariat ether carboxylic acid, fluorine-containing	L-2

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{29}H_{43}NO_2S$	469.72	(*S*)-2-(Dodecylthio)-*N*-(4-hydroxy-2,3,5-trimethylphenyl)-2-phenyl acetamide	E-1
		Eflucimibe	E-1
$C_{29}H_{48}O$	412.69	(3β,22*E*)-Stigmasta-5,22-dien-3-ol	S-33, S-34
		Stigmasterol	S-33, S-34
$C_{29}H_{48}O_2$	428.69	Cholesterol acetate	C-75
		Cholesteryl acetate	C-75
$C_{29}H_{50}O_2$	430.71	(2*R*)-3,4-Dihydro-2,5,7,8-tetramethyl-2-[(4*R*,8*R*)-4,8,12-trimethyl tridecyl]-2*H*-1-benzopyran-6-ol	T-44–T-48
		α-Tocopherol	T-44–T-48
		DL-α-Tocopherol	T-44–T-48
		Vitamin E	T-44–T-48
$C_{29}H_{60}$	408.79	Nonacosane	N-83, N-84
$C_{30}H_{42}N_2O_2$	462.67	1,4-Bis(octylamino)anthraquinone	B-48–B-51
$C_{30}H_{50}$	410.72	(*all E*)-2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene	S-13, S-14
		Squalene	S-13, S-14
$C_{30}H_{62}$	422.81	2,6,10,15,19,23-Hexamethyltetracosane	S-7–S-12
		Squalane	S-7–S-12
		Triacontane	T-51
$C_{31}H_{37}N_3O_2S$	515.71	C. I. Disperse Blue 354	C-111
		[2-[[4-(Dihexylamino)-2-methylphenyl] methylene]-1,1-dioxidobenzo [b]thien-3(2*H*)-ylidene] propane-dinitrile	C-111
$C_{31}H_{46}O_2$	450.70	Phylloquinone	V-11
		Phytomenadione	V-11
		Vitamin K_1	V-11
$C_{31}H_{52}O_2$	456.74	Cholesterol butanoate	C-78
		Cholesterol butyrate	C-78
		Cholesteryl butyrate	C-78
$C_{32}H_{48}N_2O_2$	492.74	*N*,*N*′-Bis(4,6-di-*tert*-butylsalicylidene)-ethylenediamine	B-81
		tert-Butyl-salen	B-81
$C_{32}H_{66}$	450.87	Dotriacontane	D-95–D-98
$C_{33}H_{40}N_2O_9$	608.68	18β-Hydroxy-11,17α-dimethoxy-3β,20α-yohimban-16β-carboxylic acid methyl ester 3,4,5-trimethoxy-benzoate	R-2
		Reserpine	R-2
$C_{33}H_{45}CoOPSi_3$	630.87	Carbonyl-π-cyclopentadienyl(tris-(4-trimethylsilylphenyl)phosphine) cobalt	C-28
		Carbonyl(η^5-cyclopentadienyl) [tris(4-trimethylsilylphenyl)-phosphine] cobalt	C-28
$C_{33}H_{57}CrO_6$	601.81	Chromium tris(2,2,6,6-tetramethylheptane-3,5-dionate)	C-82
		$Cr(thd)_3$	C-82

(*continued*)

Formula	MW	Solutes	Data Table No.
		Tris(2,2,6,6-tetramethylheptane-3,5-dionato)chromium	C-82
$C_{33}H_{57}FeO_6$	605.65	$Fe(thd)_3$	I-6
		$Fe(tod)_3$	I-7
		Iron tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	I-6
		Iron tris(2,2,7-trimethyl-3,5-octanedionate)	I-7
		Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)iron	I-6
		Tris(2,2,7-trimethyl-3,5-octanedionato)iron	I-7
$C_{33}H_{57}O_6Rh$	652.72	Rhodium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	R-8
		Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)rhodium	R-8
$C_{33}H_{57}O_6Tb$	708.74	$Tb(thd)_3$	T-4
		$Tb(tod)_3$	T-5
		Terbium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)	T-4
		Terbium tris(2,2,7-trimethyl-3,5-octanedionate)	T-5
		Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)terbium	T-4
		Tris(2,2,7-trimethyl-3,5-octanedionato)terbium	T-5
$C_{33}H_{62}O_6$	554.84	Glycerin tridecanoate	T-55
		Glycerol tricaprate	T-55
		Tricaprin	T-55
		Tridecanoin	T-55
$C_{33}H_{68}$	464.90	Tritriacontane	T-103
$C_{34}H_{50}O_2$	490.76	Cholesterol benzoate	C-76, C-77
		Cholesteryl benzoate	C-76, C-77
$C_{34}H_{53}NaO_8$	612.78	Lasalocid sodium salt	L-3
$C_{34}H_{68}N_2PdS_4$	N/A	Palladium bis(dioctyldithiocarbamate)	M-14
$C_{34}H_{74}O_{10}$	638.92	Surfactant Ls-54	S-38
$C_{35}H_{72}O_{10}$	652.95	Surfactant Ls-45	S-37
$C_{36}H_{30}Cl_2NiP_2$	654.20	Dichlorobis(triphenylphosphine)-nickel(II)	D-29
$C_{36}H_{60}O_2$	524.87	Retinol hexadecanoate	V-6
		all-*trans*-Retinol palmitate	V-6
		Vitamin A Palmitate	V-6
$C_{36}H_{61}NaO_{11}$	692.86	Monensin sodium salt	M-59
$C_{36}H_{74}$	506.97	Hexatriacontane	H-30–H-32
$C_{36}H_{74}O_{10}$	666.98	Surfactant Ls-36	S-36
$C_{37}H_{67}NO_{13}$	733.93	Erythromycin	E-13
$C_{38}H_{58}N_2O_2$	574.88	1,4-Bis(dodecylamino)anthraquinone	B-42
$C_{38}H_{76}O_2$	565.01	Cetyl behenate	P-14
		Hexadecyl docosanoate	P-14
		Palmityl behenate	P-14

(*continued*)

Formula	MW	Solutes	Data Table No.
$C_{39}H_{72}O_5$	620.99	Diolein	D-85
		Glycerol dioeate	D-85
$C_{39}H_{74}O_6$	639.00	Glycerin tridodexanoate	T-69, T-70
		Glycerol trilaurate	T-69, T-70
		Tridodecanoin	T-69, T-70
		Trilaurin	T-69–T-73
$C_{39}H_{78}N_3RhS_6$	N/A	Rhodium tris(dihexyldithiocarbamate)	M-14
$C_{40}H_{56}$	536.87	β-Carotene	C-29–C-40
		β,β-Carotene	C-29–C-40
		C. I. Food Orange 5	C-29–C-40
$C_{42}H_{69}NaO_{11}$	772.99	Salinomycin sodium salt	S-2
$C_{43}H_{71}NaO_{11}$	787.02	(4*S*)-4-Methylsalinomycin sadium salt	N-63
		Narasin sodium salt	N-63
$C_{44}H_{10}F_{20}N_4$	974.55	5,10,15,20-Tetrakis(pentafluoro-phenyl)porphine	T-24
		5,10,15,20-Tetrakis(pentafluoro-phenyl)porphyrin	T-24
$C_{44}H_{56}O_4$	648.94	*p-tert*-Butylcalix[4]arene	B-73
$C_{44}H_{68}O_{13}$	805.00	9,10-Deepithio-9,10-didehydro-acanthifolicin	O-20
		Okadaic acid	O-20
$C_{44}H_{76}CeO_8$	873.20	$Ce(thd)_4$	C-45
		$Ce(tod)_4$	C-46
		Cerium tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionate)	C-45
		Cerium tetrakis(2,2,7-trimethyl-3,5-octanedionate)	C-46
		Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)cerium	C-45
		Tetrakis(2,2,7-trimethyl-3,5-octanedionato)cerium	C-46
$C_{44}H_{88}O_2$	649.17	Behenyl behenate	B-8
		Docosyl docosanoate	B-8
$C_{45}H_{86}O_6$	723.16	Glycerin trimyristate	T-75
		Glycerol tritetradecanoate	T-75
		Trimyristin	T-71, T-72, T-75, T-76
$C_{46}H_{74}N_2O_2$	687.09	1,4-Bis(hexadecylamino)anthraquinone	B-44
$C_{47}H_{51}NO_{14}$	853.91	Paclitaxel	T-1, T-2
		Taxol	T-1, T-2
$C_{50}H_{82}N_2O_2$	743.21	1,4-Bis(octadecylamino)anthraquinone	B-47
$C_{51}H_{98}O_6$	807.32	Glycerin tripalmitate	T-87–T-90
		Glycerol trihexadecanoate	T-87–T-90
		Tripalmitin	T-72, T-73, T-76, T-87–T-90
$C_{51}H_{102}N_3RhS_6$	N/A	Rhodium tris(dioctyldithiocarbamate)	M-14
$C_{52}H_{22}F_{24}N_4$	1158.73	5,10,15,20-Tetrakis(3,5-bis(trifluoro-methyl)phenyl)porphyrin	T-23
$C_{57}H_{98}O_6$	879.38	Glycerin trilinoleate	T-74
		Glycerol trilinoleate	T-74
		Trilinolein	T-74
$C_{57}H_{104}O_6$	885.43	Glycerin trioleate	T-82–T-86

(*continued*)

Formula	MW	Solutes	Data Table No.
		Glycerol trioleate	T-82–T-86
		Triolein	T-82–T-86
$C_{57}H_{110}O_6$	891.48	Glycerin tristearate	T-102
		Glycerol trioctadecanoate	T-102
		Tristearin	T-102
$C_{59}H_{90}O_4$	863.34	Coenzyme Q10	C-172
		(all-*E*)-2-(3,7,11,15,19,23, 27,31,35, 39-Decamethyl-2,6,10,14,18, 22,26,30,34,38-tetracontadecaenyl)-5,6-dimethoxy-3-methyl-*p*-benzoquinone	C-172
		Ubiquinone Q10	C-172
$C_{66}H_{84}O_6$	973.40	*p-tert*-Butylcalix[6]arene	B-74
$C_{72}H_{96}O_{48}$	1729.50	α-Cyclodextrin octadecaacetate	C-205
		2,3,6-Triacetyl-α-cyclodextrin	C-205
$C_{84}H_{112}O_{56}$	2017.75	β-Cyclodextrin heneicosaacetate	C-206
		2,3,6-Triacetyl-β-cyclodextrin	C-206
$C_{88}H_{112}O_8$	1297.87	*p-tert*-Butylcalix[8]arene	B-75
$C_{96}H_{128}O_{64}$	2306.03	γ-Cyclodextrin tetracosaacetate	C-207
		2,3,6-Triacetyl-γ-cyclodextrin	C-207
H_2O	18.02	Water	W-1–W-4
$UO_2(C_5H_4F_3O_2)_2 \cdot C_5H_5N$	655.29	Uranyl bis(trifluoroacetylacetonate) pyridine complex	U-5
$UO_2(C_8H_4F_3O_2S)_2 \cdot X$	736.40	Uranyl bis(thenoyltrifluoroacetonate) phosphate complexes	U-4
$UO_2 \cdot (C_{10}H_6F_3O_3S)_2 \cdot 2(C_{12}H_{27}O_4P)$	1329.09	Uranyl thenoyltrifluoroacetylacetonate tributyl phosphate complex	U-8
$UO_2(NO_3)_2 \cdot 2(C_{12}H_{27}O_4P)$	926.67	Uranyl dinitrate tributyl phosphate complex	U-6, U-7
N/A	N/A	Albumin	A-22
	N/A	Aniseed Essential Oil	A-36
	326.50	Aroclor 1254	A-68
	N/A	Beef shank fat	B-3
	N/A	Bisphenol A-type epoxy resin	P-102
	N/A	Bitumen	B-57, B-58
	201.00	Bitumen Cut 1	B-59
	304.00	Bitumen Cut 2	B-60
	572.00	Bitumen Cut 3	B-61
	N/A	Black pepper essential oil	B-63
	N/A	Blackcurrant seed oil	B-62
	N/A	Canola oil	C-14
	N/A	Castor oil	C-43
	N/A	Chlorophyllian pigments	C-62
	379.00	C. I. Disperse Blue 60S	C-98
	399.00	C. I. Disperse Brown 22	C-112
	N/A	C. I. Disperse Orange 1	C-113
	N/A	C. I. Disperse Orange 33	C-122
	430.00	C. I. Disperse Red 137	C-137
	426.00	C. I. Disperse Red 324	C-141, C-142

(*continued*)

Formula	MW	Solutes	Data Table No.
	469.00	C. I. Disperse Red W-4BS	C-143
	429.00	C. I. Disperse Yellow 108	C-152
	N/A	Clove buds extract	C-165
	N/A	Cocoa butter	C-169, C-170
	N/A	Cupuacu seed fat	C-203
	N/A	Eucalyptus leaves extract	E-27
	N/A	Ewe's milk fat	E-30
	N/A	Fish liver oil (cod)	F-9, F-10
	N/A	Fish liver oil (deep sea shark)	F-13
	N/A	Fish liver oil (orange roughy fish)	F-11
	N/A	Fish liver oil (spiny dogfish)	F-12, F-13
	N/A	Fish oil (sand eel)	F-14
	N/A	Fish oil ethyl esters (EE-1)	F-15
	N/A	Fish oil ethyl esters (EE-2)	F-16
	N/A	Fish oil ethyl esters (EE-3)	F-17
	N/A	Fish oil ethyl esters (EE-4)	F-18
	N/A	Fish oil ethyl esters (EE-5)	F-19
	N/A	Fish oil ethyl esters (EE-6)	F-20
	N/A	Fish oil ethyl esters (EE-7)	F-21
	N/A	Fish oil ethyl esters (EE-8)	F-22
	N/A	Fish oil ethyl esters (EE-9)	F-23
	N/A	Fish oil ethyl esters (EE-10)	F-24
	N/A	Fish oil ethyl esters (EE-11)	F-25
	N/A	Fish oil ethyl esters (EE-12)	F-26
	N/A	Fish oil ethyl esters (EE-13)	F-27
	N/A	Fish oil fatty acid ethyl ester	F-28
	N/A	Fish oil fatty acid ethyl ester, Omega 3 concentrate	F-28
	N/A	Fish oil fatty acid ethyl ester, original FAEE	F-28
	N/A	Fish oil fatty acid ethyl ester, urea fractionated	F-28, F-29
	N/A	Fungal oil	F-46
	N/A	Ginger rhizomes extract	G-3
	N/A	Grape seed oil	G-9
	N/A	Jojoba bean oil	J-1
	N/A	Jojoba wax	J-1
	N/A	Krytox dithiol	K-4
	N/A	Krytox picolyl amine	K-5
	N/A	Lecithin S20	L-7
	N/A	Lipids	L-26
	N/A	Milk fat triglyceride	M-56
	N/A	Milk thistle seed oil	M-57
	N/A	4-(*N*-Phenylamino)-4′-nitroazobenzene	C-113
	N/A	Olive oil	O-27
	N/A	Orange peel oil	O-28
	N/A	Palladium diimine BArF complex	P-5
	N/A	Palm kernel oil	P-15, P-16
	N/A	Palm oil	P-17
	326.50	PCB 1254	A-68

(*continued*)

Formula	MW	Solutes	Data Table No.
	N/A	PEG	P-102
	N/A	Pesticides	P-43
	90,000–1,20,000	PMMA	P-102
	1×10^6	Poly(1,1-dihydroperfluorooctyl acrylate)	P-91
	1,000–7,500	Polyethylene glycol	P-92, P-93
	N/A	Poly(ethylene glycol-*block*-propylene glycol)	P-94
	500	Poly(ethylene glycol) dimethylether	P-95
	200–600	Poly(ethylene glycol) diol	P-96
	350–1,000	Poly(ethylene glycol) monomethylether	P-97
	970–1,700	Poly(ethylene glycol-*ran*-propylene glycol)	P-98
	1,500	Poly(ethyl vinyl ether)	P-99
	N/A	Poly(FOEMA-*co*-PPGMA)	P-100
	8,00,000	Poly(β-hydroxybutyrate)	P-101
	5,40,000	Poly(methyl methacrylate)	P-103
	N/A	Poly(oxyalkylene) alkylphenyl ether	P-102
	400–2,000	Poly(propylene glycol) diol	P-104
	1,000	Poly(propylene glycol) monobutylether	P-105
	1,000, 1,200	Poly(propylene glycol) monomethylether	P-106
	N/A	Poly(styrene)	P-102
	1,40,000–1,66,000	Poly(tetrafluoroethylene-*co*-vinyl acetate)	P-107
	N/A	Poly(vinyl butyral)	P-108
	N/A	PS-*b*-(PMMA-*co*-PGMA)	P-102
	N/A	Rosemary oil	R-9
	N/A	Shale oil	S-3
	N/A	Soybean oil	S-6
	N/A	Triglycerides	T-65
	N/A	Turmeric oil	T-106
	N/A	Vegetable oil from Buriti fruit	V-4
	N/A	Wax	W-5
	N/A	Wool wax	W-6
	N/A	Zinc bis(trifluoroethyl)dithiocarbamate	Z-2
	N/A	Zinc dibutyldithiocarbamate	Z-2
	N/A	Zinc diethyldithiocarbamate	Z-2
	N/A	Zinc dihexyldithiocarbamate	Z-2
	N/A	Zinc dipentyldithiocarbamate	Z-2
	N/A	Zinc dipropyldithiocarbamate	Z-2
	N/A	Zinc dithiocarbamate complexes	Z-2
	N/A	Zinc pyrrolidinedithiocarbamate	Z-2

Index

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Chemical Engineering

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Introducing the most complete collection of supercritical CO_2 solubility data currently available, **Solubility in Supercritical Carbon Dioxide** features experimental data on more than 780 solutes in consistent units and an easily accessible format.

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- Synonyms for the compound, where available
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