Reparameterization of COSMO-SAC for Phase Equilibrium Properties Based on Critically Evaluated Data

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Supporting Information

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Table S1. Relative deviations of vapor pressures over liquid binaries at temperature T and mole fraction of the first component x_1 calculated with Model I (Δ_I) and Model II (Δ_{II}) from the experimental values[a]

Component 1 [b]		Component 2 [b]		x_1	T / K	Reference code				$100\Delta_I$	$100\Delta_{II}$
Name	Formula	Name	Formula								
argon	Ar	nitrogen	N2	0.154	78.6	1965	wil	sil	0	9.7	9.6
argon	Ar	oxygen	O2	0.247	89.97	1978	yor	yos	0	0.5	0.4
bromine	Br2	tetrachloromethane	CCl4	0.969	331.02	1950	spi	kru	0	-1.4	-1.4
bromine	Br2	1,1,2-trichloro-1,2,2-trifluoroethane	C2Cl3F3	0.919	319.23	1951	spi	mey	0	-50.7	-50.7
dichlorodifluoromethane	CCl2F2	1,1-difluoroethane	C2H4F2	0.866	233.18	1967	kri		0	-6	-5.8
tetrachloromethane	CCl4	trichloromethane	CHCl3	0.374	313.13	1954	mcg	pru	0	0.3	0.4
tetrachloromethane	CCl4	dichloromethane	CH2Cl2	0.918	303.14	1984	azp	roy	0	3.5	4
tetrachloromethane	CCl4	methanol	CH4O	0.455	328.13	1952	sca	tic	0	-10.5	-10.6
tetrachloromethane	CCl4	methanol	CH4O	0.982	303.14	1968	wol	hoe	0	-19.7	-17.8
tetrachloromethane	CCl4	tetrachloroethene	C2Cl4	0.488	343.13	1969	fri	fra	0	-0.8	-0.8
tetrachloromethane	CCl4	1,1,2,2-tetrachloroethane	C2H2Cl4	0.236	298.15	2005	gar	per	0	-2.3	-2.1
tetrachloromethane	CCl4	1,1,1-trichloroethane	C2H3Cl3	0.701	298.14	1976	mei	bro	0	-2.2	-2.1
tetrachloromethane	CCl4	acetonitrile	C2H3N	0.191	318.13	1954	bro	smi	1	0.2	1.4
tetrachloromethane	CCl4	1,2-dibromoethane	C2H4Br2	0.788	303.15	1994	per	val	0	1.5	1.7
tetrachloromethane	CCl4	1,2-dichloroethane	C2H4Cl2	0.503	313.15	1990	emb	ber	0	12.2	12.9
tetrachloromethane	CCl4	ethanoic acid	C2H4O2	0.797	313.14	1969	mik	rat	0	15	14.8
tetrachloromethane	CCl4	ethanol	C2H6O	0.767	327.53	1904	sch		0	-10.5	-10
tetrachloromethane	CCl4	ethanol	C2H6O	0.364	332.53	1969	bou	enj	0	-12	-11.7
tetrachloromethane	CCl4	1,3-dichloropropane	C3H6Cl2	0.858	303.14	1984	azi	roy	0	-5.4	-5.2
tetrachloromethane	CCl4	acetone	C3H6O	0.032	304.33	1952	bac	sim	0	-1.1	-1
tetrachloromethane	CCl4	ethyl methanoate	C3H6O2	0.332	318.14	1983	oht	kin	0	3.2	3.4
tetrachloromethane	CCl4	propanoic acid	C3H6O2	0.376	323.14	1971	lis		1	36.9	36.4
tetrachloromethane	CCl4	propanoic acid	C3H6O2	0.26	363.13	1976	pau		0	13.7	13
tetrachloromethane	CCl4	dimethylformamide	C3H7NO	0.36	303.13	1966	qui		1	-17.7	-16.6
tetrachloromethane	CCl4	2-propanol	C3H8O	0.462	342.55	1963	yua	lu	0	-8.7	-8

tetrachloromethane	CCl4	1-propanol	C3H8O	0.974	348.24	1973	oco	toj	0	-0.4	0.4
tetrachloromethane	CCl4	furan	C4H4O	0.555	303.14	1973	bye	gib	0	11.9	12.4
tetrachloromethane	CCl4	1,4-dioxane	C4H8O2	0.122	298.14	1972	des	osw	0	1.7	2.1
tetrachloromethane	CCl4	ethyl ethanoate	C4H8O2	0.398	323.12	1900	von		0	4.2	4.5
tetrachloromethane	CCl4	ethyl ethanoate	C4H8O2	0.603	303.13	1966	ste	bit	0	3	3.3
tetrachloromethane	CCl4	1-butanol	C4H10O	0.223	346.13	1983	lin		1	-16	-14.9
tetrachloromethane	CCl4	2-methyl-2-propanol	C4H10O	0.886	298.14	1968	bru	del	0	-5.1	-4.6
tetrachloromethane	CCl4	(RS)-2-butanol	C4H10O	0.977	346.13	1983	lin		0	-0.7	-0.1
tetrachloromethane	CCl4	cyclopentane	C5H10	0.483	298.14	1969	bou	lam	0	-0.5	-0.5
tetrachloromethane	CCl4	benzene	C6H6	0.852	312.13	1904	sch		0	3.1	3.3
tetrachloromethane	CCl4	benzene	C6H6	0.493	303.13	1938	tah		0	4.2	4.7
tetrachloromethane	CCl4	benzene	C6H6	0.224	293.14	1963	ste	bit	0	2.8	3.2
tetrachloromethane	CCl4	benzene	C6H6	0.836	311.84	1975	men	con	0	2.5	2.8
tetrachloromethane	CCl4	phenol	C6H6O	0.9	298.14	1961	del		1	-0.9	-0.3
tetrachloromethane	CCl4	aniline	C6H7N	0.458	318.13	1967	des	pan	0	8.9	5.9
tetrachloromethane	CCl4	cyclohexane	C6H12	0.562	333.12	1963	dvo	bou	0	-1.2	-1.2
tetrachloromethane	CCl4	1-hexene	C6H12	0.75	345.03	1969	rod	hsu	0	-3.3	-3.2
tetrachloromethane	CCl4	methylcyclopentane	C6H12	0.358	346.03	1969	rod	hsu	0	-0.7	-0.8
tetrachloromethane	CCl4	toluene	C7H8	0.7	348.12	1926	sch		0	2.4	2.6
tetrachloromethane	CCl4	toluene	C7H8	0.196	313.15	1993	gor	zaw	0	3.6	4
tetrachloromethane	CCl4	methoxybenzene	C7H8O	0.75	288.14	1924	wei	sch	2	-0.4	-0.1
tetrachloromethane	CCl4	3-methylphenol	C7H8O	0.684	293.14	1956	bru	bon	0	-2.2	-1.3
tetrachloromethane	CCl4	octane	C8H18	0.504	308.14	1971	jai	gup	0	-4.2	-4.2
trichloromethane	CHCl3	methanol	CH4O	0.196	330.92	1962	nag		4	-15.6	-15.3
trichloromethane	CHCl3	methanol	CH4O	0.152	303.15	1990	gor	ora	0	-17.2	-17.3
trichloromethane	CHCl3	carbon disulfide	CS2	0.8	283.09	1926	sch		0	-5.9	-6.2
trichloromethane	CHCl3	ethanol	C2H6O	0.301	308.11	1938	sca	ray	0	-28.5	-27.2
trichloromethane	CHCl3	ethanol	C2H6O	0.624	323.14	1975	abb	van	0	-12.9	-11.1
trichloromethane	CHCl3	ethanol	C2H6O	0.363	333.15	1995	fu	mo	0	-19.4	-17.8
trichloromethane	CHCl3	acetone	C3H6O	0.493	308.3	1900	von		0	-5.1	-6.2
trichloromethane	CHCl3	acetone	C3H6O	0.9	273.15	1921	sch		1	-3.4	-3.6

trichloromethane	CHCl3	acetone	C3H6O	0.447	332.72	1949	for	sim	0	-20.5	-21.6
trichloromethane	CHCl3	acetone	C3H6O	0.05	298.14	1960	rab	nik	0	-0.2	-0.3
trichloromethane	CHCl3	acetone	C3H6O	0.784	298.14	1981	tam	ape	1	-2.6	-3.3
trichloromethane	CHCl3	ethyl methanoate	C3H6O2	0.378	318.14	1980	oht	asa	0	-4.6	-5.1
trichloromethane	CHCl3	1,3-dioxacyclopentane	C3H6O2	0.39	323.14	1989	wu	san	0	-11.2	-11.9
trichloromethane	CHCl3	1-propanol	C3H8O	0.496	342.05	1994	wan	cai	1	-11.8	-9.5
trichloromethane	CHCl3	2-thiabutane	C3H8S	0.74	336.02	1958	mat	kra	0	-1.1	-1.5
trichloromethane	CHCl3	butanone	C4H8O	0.928	318.14	1980	oht	asa	0	1.3	1.2
trichloromethane	CHCl3	ethyl ethanoate	C4H8O2	0.305	313.14	1980	oht	asa	0	-1.2	-2
trichloromethane	CHCl3	diethyl ether	C4H10O	0.6	273.1	1926	sch		0	-42.8	-44.3
trichloromethane	CHCl3	pyridine	C5H5N	0.503	336.63	1969	fin	ken	0	9.3	8.8
trichloromethane	CHCl3	cyclopentanone	C5H8O	0.562	308.15	2008	dra	bar	0	-1.1	-2.7
trichloromethane	CHCl3	N-methyl-2-pyrrolidone	C5H9NO	0.494	323.14	1987	wil	wil	0	15.3	13.1
trichloromethane	CHCl3	piperidine	C5H11N	0.867	333.15	2002	fen	vrb	0	3	1.7
trichloromethane	CHCl3	benzene	C6H6	0.82	341.12	1952	buk	maj	0	11.2	11.2
trichloromethane	CHCl3	benzene	C6H6	0.299	342.11	1999	wu	li	0	0.2	0
trichloromethane	CHCl3	4-methyl-2-pentanone	C6H12O	0.94	303.15	2007	cla	mar	0	-2.1	-2.1
trichloromethane	CHCl3	hexane	C6H14	0.601	298.14	1975	bis	wil	0	-3.8	-3.9
trichloromethane	CHCl3	toluene	C7H8	0.865	338.47	1914	ros	bac	0	3.2	3.2
trichloromethane	CHCl3	sulfur dioxide	O2S	0.366	227.61	1975	lor	smi	0	3.6	3.4
dichloromethane	CH2Cl2	methanol	CH4O	0.891	310.33	1963	ten	mis	0	-7.4	-6.2
dichloromethane	CH2Cl2	dimethyl sulfoxide	C2H6OS	0.449	298.14	1973	phi	jam	0	-39.4	-42.6
dichloromethane	CH2Cl2	methyl ethanoate	C3H6O2	0.655	303.14	1973	bye	gib	0	-8.3	-9
dichloromethane	CH2Cl2	tetrahydrofuran	C4H8O	0.078	303.14	1973	bye	gib	0	-1.8	-2.1
dichloromethane	CH2Cl2	1,4-dioxane	C4H8O2	0.645	298.15	1991	nat		0	-4.4	-5
dichloromethane	CH2Cl2	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.275	313.15	1994	kri	vis	1	-3.2	-3.6
methanoic acid	CH2O2	1,2-dichloroethane	C2H4Cl2	0.75	318.13	1960	udo	ale	1	-6.3	-7
methanoic acid	CH2O2	ethanoic acid	C2H4O2	0.161	316.13	1966	kus	tat	1	-1.8	-2
methanoic acid	CH2O2	propanoic acid	C3H6O2	0.263	302.99	1983	tam	dra	0	3.3	2.9
methanoic acid	CH2O2	dimethylformamide	C3H7NO	0.289	369.42	1958	mal	val	0	43.7	44.5

methanoic acid	CH2O2	dipropyl ether	C6H14O	0.938	367.62	1966	hun	sim	0	33.8	34.8
methanoic acid	CH2O2	water	H2O	0.166	313.23	1939	tak		0	21.6	21.1
methanoic acid	CH2O2	water	H2O	0.671	315.43	1958	cha	ale	0	41.2	39.8
methanoic acid	CH2O2	water	H2O	0.316	341.42	1960	riv		0	17	16.3
methanoic acid	CH2O2	water	H2O	0.588	313.03	1966	kus	tat	0	32.4	30.8
silane, trichloromethyl-	CH3Cl3Si	dichloromethylvinylsilane	C3H6Cl2Si	0.581	348.69	2003	yu	qiu	0	0.5	0.5
iodomethane	CH3I	carbon disulfide	CS2	0.249	315.93	1958	gaz	zel	0	6.2	6.5
iodomethane-d3	CH3I	hexane	C6H14	0.182	303.14	1976	wol	goe	2	-8.1	-7.4
formamide	CH3NO	1,4-dioxane	C4H8O2	0.5	323.13	1967	qui		0	-57.3	-47.2
nitromethane	CH3NO2	ethyl ethanoate	C4H8O2	0.552	359.31	1999	tu	ku	0	0.4	1.8
nitromethane	CH3NO2	1-chlorobutane	C4H9Cl	0.506	348.14	1983	khu	mut	2	4.4	2.5
nitromethane	CH3NO2	1-butanol	C4H10O	0.739	313.14	1977	saz	fil	0	-4.6	-1.8
nitromethane	CH3NO2	benzene	C6H6	0.454	298.14	1961	sau	spa	0	3.9	1.6
nitromethane	CH3NO2	ethylbenzene	C8H10	0.257	384.3	1977	bag	kat	1	12.3	9.9
nitromethane	CH3NO2	water	H2O	0.966	296.14	1977	fil	mar	0	-18	-6.8
methanol	CH4O	carbon disulfide	CS2	0.975	326.14	1970	iin	sud	0	-29.1	-30.1
methanol	CH4O	1,1,1-trichloroethane	C2H3Cl3	0.275	328.95	1991	sri	rao	0	-13.9	-13.3
methanol	CH4O	acetonitrile	C2H3N	0.783	326.03	1977	doh	hol	0	-6.7	-1.6
methanol	CH4O	acetonitrile	C2H3N	0.866	336.96	2013	li	bai	0	-4.2	-0.7
methanol	CH4O	1,2-dichloroethane	C2H4Cl2	0.6	313.13	1948	udo	fri	1	-20.2	-19.1
methanol	CH4O	1,1-dichloroethane	C2H4Cl2	0.918	330.38	1988	wis	tam	2	-15	-14.7
methanol	CH4O	N-methylmethanamide	C2H5NO	0.235	313.15	1996	zie		1	-11.2	-83.9
methanol	CH4O	ethanol	C2H6O	0.5	333.12	1921	sch		0	2.6	2.6
methanol	CH4O	ethanol	C2H6O	0.345	345.62	1966	slo	bab	0	-0.6	-0.6
methanol	CH4O	ethanol	C2H6O	0.2	326.39	2006	fuk	mat	0	1.2	1.1
methanol	CH4O	propanenitrile	C3H5N	0.597	341.03	1985	mat	ben	0	-10.1	-4.2
methanol	CH4O	acetone	C3H6O	0.416	328.99	1953	uch	oga	0	-8.7	0.2
methanol	CH4O	acetone	C3H6O	0.4	328.71	1971	och	koj	0	-9	-0.1
methanol	CH4O	acetone	C3H6O	0.22	328.44	1978	och	lu	0	-5.5	1.1
methanol	CH4O	acetone	C3H6O	0.805	332.72	1994	hia	kur	0	-9.6	-1.8
methanol	CH4O	acetone	C3H6O	0.2	328.14	2007	orc	mig	0	-5.2	1.1

methanol	CH4O	propanoic acid	C3H6O2	0.421	318.15	1976	ape	koh	0	1.4	-6.5
methanol	CH4O	methyl ethanoate	C3H6O2	0.36	320.41	1967	dob	bag	0	-16.4	-7.2
methanol	CH4O	methyl ethanoate	C3H6O2	0.943	308.14	1976	fig	web	1	-11.9	-7.2
methanol	CH4O	methyl ethanoate	C3H6O2	0.879	332.73	2011	alv	mat	0	-12.4	-6
methanol	CH4O	dimethyl carbonate	C3H6O3	0.592	321.73	2006	fuk	mat	0	-22.5	-13.8
methanol	CH4O	dimethyl carbonate	C3H6O3	0.788	310.97	2012	yan	zen	0	-16.6	-11.4
methanol	CH4O	dimethylformamide	C3H7NO	0.566	326.58	1963	bit	fle	0	2.7	11.9
methanol	CH4O	2-propanol	C3H8O	0.794	340.79	1991	len	per	0	1.5	1.4
methanol	CH4O	1-propanol	C3H8O	0.3	303.13	1926	sch		0	-4	-4.2
methanol	CH4O	1-propanol	C3H8O	0.352	343.92	2012	mat	fuk	0	3.1	2.9
methanol	CH4O	1,2,3-propanetriol	C3H8O3	0.189	316.35	2013	ven	ben	0	4.3	4.2
methanol	CH4O	thiophene	C4H4S	0.48	313.14	1983	tri		0	-22.4	-21.9
methanol	CH4O	butanenitrile	C4H7N	0.887	339.28	1985	mat	gon	1	-2.2	-1.2
methanol	CH4O	butanone	C4H8O	0.096	308.15	1996	gar	san	1	-9.7	-2.1
methanol	CH4O	ethyloxirane	C4H8O	0.209	298.15	1996	com	fra	2	-15.5	-8.3
methanol	CH4O	butanoic acid	C4H8O2	0.183	308.25	1976	ape	koh	0	-36.7	-59.2
methanol	CH4O	1,4-dioxane	C4H8O2	0.093	308.14	1976	val		0	-33.1	-17.3
methanol	CH4O	ethyl ethanoate	C4H8O2	0.822	323.13	1958	mur	van	0	-11.9	-6.7
methanol	CH4O	ethyl ethanoate	C4H8O2	0.7	335.53	1988	raj	ren	0	-14.5	-7.5
methanol	CH4O	sulfolane	C4H8O2S	0.893	293.15	1969	tom	lin	0	-7	-4.9
methanol	CH4O	diethyl ether	C4H10O	0.05	303.69	1974	sch		0	-9.2	-7.8
methanol	CH4O	2-methyl-1-propanol	C4H10O	0.7	333.12	1948	udo	fri	2	-2.3	-2.5
methanol	CH4O	(RS)-2-butanol	C4H10O	0.932	298.14	1970	pol	mur	0	0.1	0.1
methanol	CH4O	2-ethoxyethanol	C4H10O2	0.94	313.15	2002	deb	bhe	0	0.1	0.2
methanol	CH4O	diethylamine	C4H11N	0.91	339.15	2013	yan	qin	0	12.6	11.5
methanol	CH4O	2-furaldehyde	C5H4O2	0.489	345.77	1987	ni	wan	0	-32.2	-22.7
methanol	CH4O	pyridine	C5H5N	0.903	298.14	1976	nak	ash	0	0.6	1.4
methanol	CH4O	2-methylfuran	C5H6O	0.977	334.32	1950	hic	hal	0	-9.9	-9.6
methanol	CH4O	methyl methacrylate	C5H8O2	0.65	338.98	1974	chu	dan	0	-16.9	-11.6
methanol	CH4O	N-methyl-2-pyrrolidone	C5H9NO	0.846	333.15	1992	bit	eck	0	0.4	2
methanol	CH4O	tetrahydropyran	C5H10O	0.689	321.59	2008	uno	mat	0	-13.3	-7.8

methanol	CH4O	1,1-dimethylethyl methyl ether	C5H12O	0.05	326.29	1979	chu	gor	0	-7.2	-4.6
methanol	CH4O	1,1-dimethylethyl methyl ether	C5H12O	0.159	315	1995	far	lin	0	-13	-7.1
methanol	CH4O	1,1-dimethylethyl methyl ether	C5H12O	0.734	318.15	1996	cot	wie	0	-22.6	-12.8
methanol	CH4O	1,1-dimethylethyl methyl ether	C5H12O	0.635	333.15	1996	tog	tog	0	-21	-11.7
methanol	CH4O	1,1-dimethylethyl methyl ether	C5H12O	0.853	313.15	1999	seg	mar	0	-19.1	-11.1
methanol	CH4O	2-pentanol	C5H12O	0.85	313.15	1996	bar	bhe	0	0.2	0.1
methanol	CH4O	benzene	C6H6	0.7	273.1	1926	sch		0	-25.6	-25.8
methanol	CH4O	benzene	C6H6	0.597	330.58	1954	tal	sch	0	-14.8	-14.4
methanol	CH4O	benzene	C6H6	0.782	331.6	1969	hud	van	0	-14.5	-14.3
methanol	CH4O	benzene	C6H6	0.963	325.76	1973	str	von	0	-8.1	-8
methanol	CH4O	benzene	C6H6	0.701	330.73	1983	rat	sur	0	-16.3	-16
methanol	CH4O	benzene	C6H6	0.687	298.15	1993	miy	hay	0	-18.8	-18.8
methanol	CH4O	2-methylpyridine	C6H7N	0.536	313.14	1977	war		2	10.9	16.5
methanol	CH4O	cyclohexene	C6H10	0.234	328.95	1977	juz	svo	0	-22	-22.4
methanol	CH4O	cyclohexane	C6H12	0.95	328.14	1970	str	svo	0	-18	-18.8
methanol	CH4O	1-methylpropyl ethanoate	C6H12O2	0.883	338.97	2013	wan	xia	0	-2.1	-0.5
methanol	CH4O	hexane	C6H14	0.242	318.13	1932	fer		0	-10.9	-11.8
methanol	CH4O	hexane	C6H14	0.875	323.34	1972	raa	cod	0	-18.1	-19.6
methanol	CH4O	hexane	C6H14	0.759	313.15	1995	ora	war	0	-13.1	-14.3
methanol	CH4O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.163	320	1995	far	lin	0	-22.1	-13.2
methanol	CH4O	dipropyl ether	C6H14O	0.853	323.15	1997	gar	san	0	-10.3	-7.9
methanol	CH4O	ethyl 1,1-dimethylethyl ether	C6H14O	0.844	323.65	2001	wis	aha	0	-14.1	-9.3
methanol	CH4O	toluene	C7H8	0.783	336.83	1972	ish	hir	0	-10	-10.1
methanol	CH4O	2,6-dimethylpyridine	C7H9N	0.799	318.14	1976	nak	ash	0	2.7	3.6
methanol	CH4O	4-heptanone	C7H14O	0.396	298.14	1983	rub	ren	0	-28.9	-16.8
methanol	CH4O	water	H2O	0.398	332.56	1913	wre		0	0.6	-3.8
methanol	CH4O	water	H2O	0.709	331.82	1945	oth	ben	0	-0.9	-2.7
methanol	CH4O	water	H2O	0.7	342.93	1970	les	ogo	4	1.4	-0.4

methanol	CH4O	water	H2O	0.029	308.14	1981	chr	lan	0	7.5	3.8
methanol	CH4O	water	H2O	0.019	298.14	1981	chr	lan	0	7.2	4.1
methanol	CH4O	water	H2O	0.202	318.14	1989	fu	wan	1	1.7	-4.8
methanol	CH4O	water	H2O	0.508	328.15	1995	kur	min	0	0.1	-3.4
methanol	CH4O	water	H2O	0.444	347.47	2011	alv	mat	0	-0.6	-4.3
methanethiol	CH4S	hexane	C6H14	0.383	223.16	1980	wol	szy	0	0.1	0.2
methanamine	CH5N	N,N-dimethylmethanamine	C3H9N	0.798	253.15	1969	wol	wue	0	-9	-6.6
methanamine	CH5N	hexane	C6H14	0.925	228.18	1962	wol	hoe	0	-1	-1.2
carbon monoxide	CO	nitrogen	N2	0.31	79.2	1936	yus	tor	0	1.4	1.1
carbon disulfide	CS2	acetone	C3H6O	0.616	308.3	1900	von		0	-10.3	-10.3
carbon disulfide	CS2	acetone	C3H6O	0.605	313.04	1973	cam	kar	0	-10.9	-10.9
carbon disulfide	CS2	cyclopentane	C5H10	0.075	308.14	1976	ber	bou	0	-3.1	-3.1
carbon disulfide	CS2	benzene	C6H6	0.6	313.13	1926	sch		0	5.8	6
carbon disulfide	CS2	toluene	C7H8	0.7	273.1	1926	sch		0	2.4	2.5
tetrachloroethene	C2Cl4	1,3-dioxacyclopentane	C3H6O2	0.644	315.44	1981	com	cas	0	-6.5	-6.1
tetrachloroethene	C2Cl4	tetrahydrofuran	C4H8O	0.39	313.15	2006	gar	per	0	-3.4	-3.3
tetrachloroethene	C2Cl4	1-butanol	C4H10O	0.961	313.15	1995	dej	bur	0	-7	-6.4
tetrachloroethene	C2Cl4	(RS)-2-butanol	C4H10O	0.114	308.85	1995	dej	bur	0	-15.9	-15.8
tetrachloroethene	C2Cl4	pyridine	C5H5N	0.941	373.12	1967	fri	gal	0	-0.8	-0.6
tetrachloroethene	C2Cl4	1-pentanol	C5H12O	0.11	401.52	1980	rao	rav	0	-12.7	-12.1
tetrachloroethene	C2Cl4	cyclohexane	C6H12	0.838	313.15	2004	gar	pas	0	-9.6	-9.6
trichloroethene	C2HCl3	1,3-dioxacyclopentane	C3H6O2	0.308	337.43	1981	com	cas	0	-8.4	-8.6
trichloroethene	C2HCl3	2-methoxyethanol	C3H8O2	0.022	341.01	1994	jon	sav	0	-7.3	-7.5
trichloroethene	C2HCl3	ethyl ethanoate	C4H8O2	0.302	343.12	1957	rao	rao	1	-1.6	-1.9
trichloroethene	C2HCl3	1-butanol	C4H10O	0.934	314	1996	dej	gon	1	-2.9	-2.3
trichloroethene	C2HCl3	2-methyl-2-propanol	C4H10O	0.385	350.13	1974	han	sub	0	-12.5	-11.8
trichloroethene	C2HCl3	(RS)-2-butanol	C4H10O	0.872	313.26	1996	dej	gon	1	-5.3	-4.4
trichloroethene	C2HCl3	4-methyl-2-pentanone	C6H12O	0.746	365.03	1976	rav	rao	0	-6.1	-6.4
trichloroethene	C2HCl3	butyl ethanoate	C6H12O2	0.803	365.83	1978	rao	rao	2	-1	-1.2
pentafluoroethane	C2HF5	ammonia	H3N	0.951	230.83	2001	yok	zhe	0	2.3	-1.1
(difluoromethoxy)trifluoromethan	C2HF5O	1,1,1-trifluoroethane	C2H3F3	0.6	222.25	2001	kul	des	0	-0.2	0

e											
(difluoromethoxy)trifluoromethane	C2HF5O	1,1-difluoroethane	C2H4F2	0.4	239.25	2001	kul	des	0	-4.5	-3.6
(difluoromethoxy)trifluoromethane	C2HF5O	fluoroethane	C2H5F	0.6	231.35	2001	kul	des	0	-18	-17.1
(E)-1,2-dichloroethene	C2H2Cl2	acetone	C3H6O	0.157	327.93	1951	alp	elv	1	-8.1	-8.5
(E)-1,2-dichloroethene	C2H2Cl2	cyclopentane	C5H10	0.959	298.14	1985	mac	bou	0	0.5	0.5
1,1,2,2-tetrachloroethane	C2H2Cl4	2-propenol	C3H6O	0.348	342.55	1997	vij	ana	0	-10.9	-10.3
1,1,2,2-tetrachloroethane	C2H2Cl4	2-methoxyethanol	C3H8O2	0.338	401.12	1978	rag	rao	0	-15.9	-16
1,1,2,2-tetrachloroethane	C2H2Cl4	benzene	C6H6	0.467	318.15	2005	gar	per	1	0.5	0.1
1,1,2,2-tetrachloroethane	C2H2Cl4	1-hexene	C6H12	0.517	333.12	1967	han	van	0	-11.4	-11.7
1,1,2,2-tetrachloroethane	C2H2Cl4	hexane	C6H14	0.465	308.14	1987	par	per	0	-2.9	-2.9
1,1,2,2-tetrachloroethane	C2H2Cl4	1-hexanol	C6H14O	0.116	423.95	2010	red	swa	0	-8.6	-7.4
1,1-dichloro-1-fluoroethane	C2H3Cl2F	pentane	C5H12	0.695	300	2013	out	lem	0	-1.6	-1.4
1,1,1-trichloroethane	C2H3Cl3	1,2-dichloroethane	C2H4Cl2	0.662	348.13	1971	sag	san	0	3.1	3.3
1,1,1-trichloroethane	C2H3Cl3	dimethyl carbonate	C3H6O3	0.211	333.15	1994	com	fra	1	-6.3	-6.5
1,1,1-trichloroethane	C2H3Cl3	3-pentanone	C5H10O	0.086	333.15	1998	teo	aim	0	-3.7	-3.7
1,1,1-trichloroethane	C2H3Cl3	benzene	C6H6	0.705	348.83	1977	rao	vis	0	0.3	0.3
1,1,1-trichloroethane	C2H3Cl3	2,2,4-trimethylpentane	C8H18	0.365	343.15	1995	com	fra	5	-3.4	-3.4
2,2,2-trifluoroethanol	C2H3F3O	water	H2O	0.508	298.14	1988	coo	mor	0	6.4	6
acetonitrile	C2H3N	N-methylmethanamide	C2H5NO	0.026	363.15	2003	har	wit	0	-16.1	-25.3
acetonitrile	C2H3N	ethanol	C2H6O	0.217	322.99	1979	wil	pat	0	-16	-8.1
acetonitrile	C2H3N	ethanol	C2H6O	0.608	333.15	2009	com	cre	0	-11.7	-3.3
acetonitrile	C2H3N	1,2-ethanediol	C2H6O2	0.349	323.14	1984	vil	all	2	-71.2	-43.4
acetonitrile	C2H3N	propenenitrile	C3H3N	0.599	351.72	1967	tar	dem	0	-3.4	-3.5
acetonitrile	C2H3N	propanenitrile	C3H5N	0.041	303.29	1987	vil	lan	0	2	2
acetonitrile	C2H3N	propanoic acid	C3H6O2	0.107	298.15	1991	ban	lar	0	-136.7	-125.5
acetonitrile	C2H3N	2-propanol	C3H8O	0.454	349.33	1985	mat	ben	0	-5	2.3
acetonitrile	C2H3N	1-propanol	C3H8O	0.207	343.83	1982	doh	ves	0	-14.3	-4.4
acetonitrile	C2H3N	2-methoxyethanol	C3H8O2	0.474	321.34	1977	cha	nag	1	1.2	5.9
acetonitrile	C2H3N	ethenyl ethanoate	C4H6O2	0.695	347.97	1989	wis	tam	2	-7.7	-7.5

acetonitrile	C2H3N	ethyl ethanoate	C4H8O2	0.148	349	2013	li	cao	0	-3.8	-3.6
acetonitrile	C2H3N	2-methyl-1-propanol	C4H10O	0.826	355.83	1985	mat	gon	1	-2.2	1.5
acetonitrile	C2H3N	chlorobenzene	C6H5Cl	0.161	328.14	1984	nag		0	-29.6	-29.6
acetonitrile	C2H3N	benzene	C6H6	0.367	337.95	1980	aco	rod	0	-12.2	-12.1
acetonitrile	C2H3N	benzene	C6H6	0.66	347.15	1991	dic	maz	0	-8.5	-8.5
acetonitrile	C2H3N	1-hexyne	C6H10	0.493	318.14	1977	des	che	0	-14.6	-14.4
acetonitrile	C2H3N	toluene	C7H8	0.467	357.53	1980	kri	tri	0	-7.7	-7.5
acetonitrile	C2H3N	ethylbenzene	C8H10	0.34	326.95	1991	dic	maz	0	-10.9	-10.6
acetonitrile	C2H3N	2,2,4-trimethylpentane	C8H18	0.061	313.14	1989	van	sve	0	-35.4	-32.4
acetonitrile	C2H3N	water	H2O	0.87	333.12	1950	vie		0	-1.5	6.2
acetonitrile	C2H3N	water	H2O	0.101	322.99	1984	vil	all	1	-63.9	-41.4
ethene	C2H4	cyclohexane	C6H12	0.92	160.01	1979	tif	koh	1	-8.7	-8.7
1,2-dibromoethane	C2H4Br2	1-butanol	C4H10O	0.233	387.75	1995	rod	laf	1	-7.1	-5.6
1,2-dibromoethane	C2H4Br2	benzene	C6H6	0.735	293	1974	bir	vij	0	-5.7	-5.9
1,2-dibromoethane	C2H4Br2	cyclohexane	C6H12	0.887	298.15	1994	kal	sin	0	4.2	5
1,1-dichloroethane	C2H4Cl2	ethanal	C2H4O	0.502	300.14	1989	rou	piv	0	-16.5	-17.1
1,2-dichloroethane	C2H4Cl2	ethanoic acid	C2H4O2	0.704	358.75	2007	has	usl	0	6.7	6.9
1,2-dichloroethane	C2H4Cl2	ethanol	C2H6O	0.512	343.23	1971	sag	san	0	-15.4	-13.1
1,2-dichloroethane	C2H4Cl2	2-propenol	C3H6O	0.42	343.45	1996	vij	ana	1	-13.3	-10.7
1,2-dichloroethane	C2H4Cl2	dimethyl carbonate	C3H6O3	0.4	313.15	1994	com	fra	1	-14.7	-15.3
1,2-dichloroethane	C2H4Cl2	1-propanol	C3H8O	0.7	323.13	1948	udo	fri	2	-4.1	-1.9
1,2-dichloroethane	C2H4Cl2	1-propanol	C3H8O	0.089	361.45	1991	kir	ven	0	-11.9	-10.3
1,2-dichloroethane	C2H4Cl2	2-methyl-1-propanol	C4H10O	0.7	323.13	1948	udo	fri	2	-3.5	-1.2
1,2-dichloroethane	C2H4Cl2	1,1-dimethylethyl methyl ether	C5H12O	0.532	324.74	2008	ami	bou	0	0.1	0.1
1,2-dichloroethane	C2H4Cl2	benzene	C6H6	0.65	355.07	1962	kir	fis	0	3.5	3.4
1,2-dichloroethane	C2H4Cl2	cyclohexane	C6H12	0.271	348.83	1989	mat	gon	0	12.2	12.7
1,2-dichloroethane	C2H4Cl2	hexane	C6H14	0.177	298.14	1988	lop	per	0	7.6	8.2
1,2-dichloroethane	C2H4Cl2	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.863	324.87	2008	ami	bou	0	-5.1	-4.9
1,2-dichloroethane	C2H4Cl2	toluene	C7H8	0.393	349.73	1974	riv		0	7.5	7.5
1,2-dichloroethane	C2H4Cl2	heptane	C7H16	0.365	303.14	1982	gut	kna	0	14	14.7

1,2-dichloroethane	C2H4Cl2	octane	C8H18	0.804	323.15	1990	cha	kat	1	6.4	6.7
ethanal	C2H4O	ethanol	C2H6O	0.3	303.14	1970	dav	sil	0	39.5	47
ethanal	C2H4O	acetone	C3H6O	0.971	294.15	1980	mue	fig	0	0.6	0.6
ethanal	C2H4O	methyl ethanoate	C3H6O2	0.73	299.19	1969	utk	bal	0	-2.5	-2.5
oxirane	C2H4O	water	H2O	0.031	283.14	1955	mac	che	0	-43.1	-15.1
ethanoic acid	C2H4O2	ethanol	C2H6O	0.932	318.14	1980	wag	ape	0	12.3	8.6
ethanoic acid	C2H4O2	acetone	C3H6O	0.239	336.72	1942	yor	hol	0	-1.1	-0.6
ethanoic acid	C2H4O2	acetone	C3H6O	0.12	308.14	1975	war	sur	0	0.7	0.9
ethanoic acid	C2H4O2	propanoic acid	C3H6O2	0.343	404.08	2010	gao	zhu	0	-0.2	-0.2
ethanoic acid	C2H4O2	2-butenal	C4H6O	0.178	348.13	1975	war	sur	0	2	2.6
ethanoic acid	C2H4O2	butanone	C4H8O	0.431	364.66	2009	xie	wan	0	-0.9	0.5
ethanoic acid	C2H4O2	ethyl ethanoate	C4H8O2	0.71	335.12	1955	usa	bil	0	-20.4	-16.8
ethanoic acid	C2H4O2	ethyl ethanoate	C4H8O2	0.021	323.2	2001	miy	nak	1	-4	-4
ethanoic acid	C2H4O2	1-butanol	C4H10O	0.176	391.33	1959	mac		0	13.2	10.5
ethanoic acid	C2H4O2	1-butanol	C4H10O	0.058	358.65	2001	mun	kra	0	8.9	7.3
ethanoic acid	C2H4O2	2-furaldehyde	C5H4O2	0.116	402.04	2003	fel	gri	0	5.9	7.5
ethanoic acid	C2H4O2	propyl ethanoate	C5H10O2	0.591	323.15	2011	fan	li	0	-3.9	-1.6
ethanoic acid	C2H4O2	butyl methyl ether	C5H12O	0.523	355.42	1966	hun	sim	0	2.3	4
ethanoic acid	C2H4O2	benzene	C6H6	0.165	353.52	1967	hau		0	8	8
ethanoic acid	C2H4O2	cyclohexane	C6H12	0.709	318.14	1984	lar	ban	0	36.9	35.6
ethanoic acid	C2H4O2	4-methyl-2-pentanone	C6H12O	0.891	390.96	1993	mal	chy	0	8.7	9.3
ethanoic acid	C2H4O2	butyl ethanoate	C6H12O2	0.94	312.13	1955	usa	bil	0	17.7	18.2
ethanoic acid	C2H4O2	toluene	C7H8	0.615	373.12	1968	mur	rag	0	15.7	15.2
ethanoic acid	C2H4O2	octane	C8H18	0.954	382.93	1958	zie	brz	2	31	29.5
ethanoic acid	C2H4O2	water	H2O	0.197	374.29	1924	pov	mar	0	3.9	4.4
ethanoic acid	C2H4O2	water	H2O	0.072	295.53	1952	oth	sil	0	2.7	2.7
ethanoic acid	C2H4O2	water	H2O	0.187	340.97	1957	cha	ale	1	6.5	6.9
ethanoic acid	C2H4O2	water	H2O	0.124	373.92	1963	ito	yos	0	3.5	3.9
ethanoic acid	C2H4O2	water	H2O	0.491	313.14	1973	laz	mar	0	5.7	6
ethanoic acid	C2H4O2	water	H2O	0.051	343.2	2001	miy	nak	1	3.3	3.5
ethanoic acid	C2H4O2	water	H2O	0.24	374.85	2009	xie	wan	0	4.9	5.5

chloroethane	C2H5Cl	butane	C4H10	0.109	271.8	1957	per		0	0.9	1.1
nitroethane	C2H5NO2	1,3-dichloropropane	C3H6Cl2	0.273	363.15	2011	teo	bar	0	-1.4	-3.1
nitroethane	C2H5NO2	1-methoxy-2-propanol	C4H10O2	0.502	313.15	2006	gil	wil	2	-11.7	-11
nitroethane	C2H5NO2	propyl ethanoate	C5H10O2	0.403	377.56	1999	ku	tu	0	-2.7	-1.7
silane, dichlorodimethyl-	C2H6Cl2Si	silicon tetrachloride	Cl4Si	0.19	330.83	1987	rug	gas	0	0.5	0.7
ethanol	C2H6O	1,2-ethanediol	C2H6O2	0.154	322.99	1983	gon	van	1	-44.1	-44.7
ethanol	C2H6O	propanal	C3H6O	0.603	308.15	1995	cot	pan	0	24.3	31.3
ethanol	C2H6O	acetone	C3H6O	0.938	328.13	1966	vin	sus	0	-10.9	-5.4
ethanol	C2H6O	methyl ethanoate	C3H6O2	0.768	333.13	1970	per	vol	0	-7.9	2.2
ethanol	C2H6O	methyl ethanoate	C3H6O2	0.235	330.49	2011	alv	mat	0	-9.4	-4
ethanol	C2H6O	dimethyl carbonate	C3H6O3	0.845	332.57	2006	fuk	mat	0	-15.1	-9.9
ethanol	C2H6O	2-propanol	C3H8O	0.653	313.14	1989	ora		0	1.4	1.4
ethanol	C2H6O	1-propanol	C3H8O	0.9	343.12	1948	udo	fri	0	-2.6	-2.6
ethanol	C2H6O	1,2,3-propanetriol	C3H8O3	0.75	333.15	2013	ven	ben	0	-11.5	-11.6
ethanol	C2H6O	thiophene	C4H4S	0.058	308.14	1983	tri		0	-24.1	-22.4
ethanol	C2H6O	butanone	C4H8O	0.196	298.15	1996	gar	san	1	-11.1	-4.9
ethanol	C2H6O	1,4-dioxane	C4H8O2	0.551	320.54	1969	man	rad	0	-27.1	-15.1
ethanol	C2H6O	1,4-dioxane	C4H8O2	0.254	308.15	1999	cal	art	0	-34.2	-20.1
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0.051	348.67	1958	mur	van	0	-3.8	-1
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0.459	344.83	1970	kat	kon	0	-16.4	-7.7
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0.203	346.13	1986	ort	pen	0	-11	-4.3
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0.775	345.83	1998	fig	mal	0	-14.5	-7.7
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0.852	323.15	2012	pav	bog	0	-17.1	-10.5
ethanol	C2H6O	methyl propanoate	C4H8O2	0.069	353.4	1990	ort	sus	3	-4.4	-0.7
ethanol	C2H6O	1-bromobutane	C4H9Br	0.398	288.15	2003	gar	mar	0	-19.1	-19
ethanol	C2H6O	1-chlorobutane	C4H9Cl	0.131	288.15	2001	mar	gar	0	-11.5	-10.8
ethanol	C2H6O	1-chlorobutane	C4H9Cl	0.732	333.15	2009	com	cre	0	-15	-14.4
ethanol	C2H6O	diethyl ether	C4H10O	0.699	318.13	1924	lou	bri	0	-15.4	-2.8
ethanol	C2H6O	diethyl ether	C4H10O	0.6	283.14	1935	nag	isi	5	-40.9	-24.3
ethanol	C2H6O	1-butanol	C4H10O	0.968	343.13	1969	kha	per	0	0.3	0.3
ethanol	C2H6O	2-methyl-2-propanol	C4H10O	0.245	355.1	1999	auc	lor	0	3	3

ethanol	C2H6O	2-methyl-1-propanol	C4H10O	0.3	323.13	1948	udo	fri	2	-9	-9.1
ethanol	C2H6O	2-ethoxyethanol	C4H10O2	0.449	313.15	2002	deb	bhe	0	-7	-5.4
ethanol	C2H6O	diethylamine	C4H11N	0.296	334.93	1969	nak	tob	0	0.1	-4.6
ethanol	C2H6O	2-furaldehyde	C5H4O2	0.099	323.14	1970	kha	per	0	-69.3	-32.4
ethanol	C2H6O	pyridine	C5H5N	0.381	348.13	1969	fin	cop	0	-0.7	8.6
ethanol	C2H6O	ethyl propenoate	C5H8O2	0.837	350.53	1968	log	fro	0	-9.3	-6.2
ethanol	C2H6O	N-methyl-2-pyrrolidone	C5H9NO	0.385	333.15	1992	bit	eck	0	6.8	22
ethanol	C2H6O	tetrahydropyran	C5H10O	0.528	331.4	2012	mej	seg	0	-18.5	-10.2
ethanol	C2H6O	1-methylethyl ethanoate	C5H10O2	0.9	351.13	1972	nis		0	-2.2	0.4
ethanol	C2H6O	methyl butanoate	C5H10O2	0.336	356.65	1990	ort	sus	0	-19.1	-9.3
ethanol	C2H6O	1,1-dimethylethyl methyl ether	C5H12O	0.351	329.89	1996	arc	mar	0	-17	-9.3
ethanol	C2H6O	butyl methyl ether	C5H12O	0.104	308.15	2000	hof	spo	0	-7.3	-3.8
ethanol	C2H6O	3-methyl-1-butanol	C5H12O	0.1	343.12	1948	udo	fri	2	-9.2	-9.4
ethanol	C2H6O	chlorobenzene	C6H5Cl	0.59	303.15	1956	sch		0	-17.3	-17.2
ethanol	C2H6O	benzene	C6H6	0.256	335.12	1904	sch		0	-15.9	-14.5
ethanol	C2H6O	benzene	C6H6	0.385	323.13	1952	udo	fat	1	-15.9	-14.7
ethanol	C2H6O	benzene	C6H6	0.266	328.13	1963	yua	lu	0	-14.5	-13.3
ethanol	C2H6O	benzene	C6H6	0.53	298.14	1977	hwa	rob	0	-16.9	-16
ethanol	C2H6O	benzene	C6H6	0.745	303.15	1990	zie	ora	0	-22.9	-22.2
ethanol	C2H6O	2-methylpyridine	C6H7N	0.13	313.14	1977	war		2	-4.7	10
ethanol	C2H6O	cyclohexane	C6H12	0.85	303.13	1935	nag	isi	1	-15.9	-17
ethanol	C2H6O	cyclohexane	C6H12	0.951	345.6	1963	yua	lu	0	-9.5	-9.8
ethanol	C2H6O	cyclohexane	C6H12	0.069	298.15	1995	cot	pan	0	-10.9	-11.2
ethanol	C2H6O	propyl propanoate	C6H12O2	0.886	352.37	1994	ort	gal	0	-4.6	-3.4
ethanol	C2H6O	butyl ethanoate	C6H12O2	0.531	358.78	1987	ort	pen	0	-13.8	-7
ethanol	C2H6O	hexane	C6H14	0.591	328.35	1963	ho	lu	0	-12.5	-12.8
ethanol	C2H6O	hexane	C6H14	0.096	323.14	1976	wol	goe	0	-8.8	-8.7
ethanol	C2H6O	hexane	C6H14	0.938	318.14	1986	osh	sto	0	-19.8	-20.8
ethanol	C2H6O	dipropyl ether	C6H14O	0.354	288.15	1997	gar	per	0	-24.2	-16.3
ethanol	C2H6O	ethyl 1,1-dimethylethyl ether	C6H14O	0.694	338.15	1999	rar	hor	0	-24.2	-16

ethanol	C2H6O	triethylamine	C6H15N	0.844	307.98	1953	cop	eve	0	2.7	6.1
ethanol	C2H6O	toluene	C7H8	0.904	343.12	1933	wri		0	-9.3	-9.2
ethanol	C2H6O	toluene	C7H8	0.623	313.14	1980	ora	kol	0	-15	-14.7
ethanol	C2H6O	toluene	C7H8	0.251	336.56	2007	uno	kik	0	-23.1	-21.9
ethanol	C2H6O	heptane	C7H16	0.4	343.13	1968	ram	del	0	-13.2	-13.6
ethanol	C2H6O	heptane	C7H16	0.66	344.33	1972	raa	cod	0	-10.2	-10.5
ethanol	C2H6O	heptane	C7H16	0.429	303.26	1982	ber	rog	0	-10.7	-11.4
ethanol	C2H6O	1,4-dimethylbenzene	C8H10	0.9	346.03	2011	mat	yam	0	-3.7	-3.6
ethanol	C2H6O	2,4,4-trimethyl-1-pentene	C8H16	0.297	343.48	2003	pok	reh	0	-16.4	-16.2
ethanol	C2H6O	octane	C8H18	0.521	343.15	1995	hia	tak	1	-12.4	-13
ethanol	C2H6O	2,2,4-trimethylpentane	C8H18	0.377	298.14	1948	kre	now	0	-11.1	-11.8
ethanol	C2H6O	water	H2O	0.262	312.89	1910	vre		0	-3.6	-9.6
ethanol	C2H6O	water	H2O	0.167	298.14	1925	dob		0	-3.7	-11.1
ethanol	C2H6O	water	H2O	0.013	322.23	1939	kir	ger	1	5.4	2.5
ethanol	C2H6O	water	H2O	0.25	338.12	1948	rao	ach	0	-4.7	-10.2
ethanol	C2H6O	water	H2O	0.149	357.62	1953	ots	wil	0	-0.7	-6
ethanol	C2H6O	water	H2O	0.207	303.13	1960	gar	sta	0	-4.9	-11.8
ethanol	C2H6O	water	H2O	0.921	319.98	1969	koj	kat	0	-1.1	-2
ethanol	C2H6O	water	H2O	0.685	328.14	1972	mer		0	-3.4	-6.4
ethanol	C2H6O	water	H2O	0.16	357.05	1972	sta	met	0	-2.4	-7.7
ethanol	C2H6O	water	H2O	0.493	353.03	1976	pau		0	-3.1	-6.7
ethanol	C2H6O	water	H2O	0.15	333.13	1980	bel	voh	0	-1	-7.1
ethanol	C2H6O	water	H2O	0.023	308.14	1984	nor	tuc	0	9	4.6
ethanol	C2H6O	water	H2O	0.05	308.14	1984	nor	tuc	0	8.4	2.5
ethanol	C2H6O	water	H2O	0.075	308.14	1984	nor	tuc	0	5.3	-1.3
ethanol	C2H6O	water	H2O	0.099	308.14	1984	nor	tuc	0	2.1	-4.9
ethanol	C2H6O	water	H2O	0.02	298.14	1984	nor	tuc	0	10.3	6.1
ethanol	C2H6O	water	H2O	0.064	298.14	1984	nor	tuc	0	9.1	2.5
ethanol	C2H6O	water	H2O	0.107	298.14	1984	nor	tuc	0	2.5	-4.8
ethanol	C2H6O	water	H2O	0.229	298.14	1984	nor	tuc	0	-5.8	-12.7
ethanol	C2H6O	water	H2O	0.176	323.15	1995	kur	min	0	-3.9	-10.3

ethanol	C2H6O	water	H2O	0.115	358.79	2002	wan	yan	0	0.1	-5.3
ethanol	C2H6O	water	H2O	0.945	315.13	2011	vou	pam	0	-0.1	-0.7
dimethyl ether	C2H6O	sulfur dioxide	O2S	0.928	243.07	1966	pup	rib	0	4.3	4.2
dimethyl sulfoxide	C2H6OS	acetone	C3H6O	0.801	308.14	1974	sas	kon	0	-36.1	-36.8
dimethyl sulfoxide	C2H6OS	tetrahydrofuran	C4H8O	0.1	318.14	1974	sas	kon	0	-0.8	-0.8
dimethyl sulfoxide	C2H6OS	1,4-dioxane	C4H8O2	0.422	333.15	1992	iul	lan	1	-19.5	-19.5
dimethyl sulfoxide	C2H6OS	1,4-dioxane	C4H8O2	0.8	333.15	1997	iul	ham	0	-29.4	-29.8
dimethyl sulfoxide	C2H6OS	2-methyl-1-propanol	C4H10O	0.584	365.63	1972	bet	mcm	0	-22.1	-0.4
dimethyl sulfoxide	C2H6OS	benzene	C6H6	0.953	313.13	1960	ken	lin	1	-137.8	-141.7
dimethyl sulfoxide	C2H6OS	water	H2O	0.035	333.28	1989	lan	iul	0	0.2	0.1
dimethyl sulfoxide	C2H6OS	water	H2O	0.734	296.09	1995	lai	lau	0	-33.1	18.9
1,2-ethanediol	C2H6O2	1,2-propanediol	C3H8O2	0.524	359.93	1972	sok	tsy	1	-6	-6
1,2-ethanediol	C2H6O2	bis(2-hydroxyethyl)amine	C4H11NO2	0.103	433.11	1987	wil	wil	2	8.5	7.7
1,2-ethanediol	C2H6O2	N-methylbenzenamine	C7H9N	0.96	393.13	1957	cru	jos	0	-36.7	-36.9
1,2-ethanediol	C2H6O2	water	H2O	0.054	359.12	1935	tri	pot	0	-0.3	-0.4
1,2-ethanediol	C2H6O2	water	H2O	0.316	363.43	1983	nat	ben	0	7	4.9
1,2-ethanediol	C2H6O2	water	H2O	0.242	353.15	2004	hor	gar	0	4.1	2.6
2,3-dithiabutane	C2H6S2	2,4,4-trimethyl-1-pentene	C8H16	0.086	368.15	2010	sap	uus	2	-2.4	-2.3
ethylamine	C2H7N	butane	C4H10	0.168	233.18	1964	wol	hoe	0	1.4	-1.3
N-methylmethanamine	C2H7N	hexane	C6H14	0.512	253.17	1966	wol	hoe	0	-12.4	-14.2
2-aminoethanol	C2H7NO	water	H2O	0.015	363.15	1990	len	rou	0	0.9	0.9
2-aminoethanol	C2H7NO	water	H2O	0.202	303.15	2009	bel	raz	0	12.9	11.2
1,2-ethanediamine	C2H8N2	toluene	C7H8	0.968	381.12	1985	cha	kat	1	-13.8	-18.3
1,2-ethanediamine	C2H8N2	1,2-dimethylbenzene	C8H10	0.439	370.02	1977	car	mar	0	7.6	-4.8
1,2-ethanediamine	C2H8N2	water	H2O	0.168	364.27	1973	sch	qui	0	24.9	20.6
propenenitrile	C3H3N	2-propenal	C3H4O	0.624	319.03	1965	sok	sev	0	-4.9	-4.8
propenenitrile	C3H3N	1-propanol	C3H8O	0.629	351.83	1985	mat	gon	0	-7.1	-0.8
propenenitrile	C3H3N	hexane	C6H14	0.961	308.6	1996	deh	boe	0	2.1	2.7
1-chloro-2,3-epoxypropane	C3H5ClO	ethylbenzene	C8H10	0.359	398.05	2005	vit	val	0	14.2	14.3
1-chloro-2,3-epoxypropane	C3H5ClO	water	H2O	0.521	361.7	2009	yue	zhu	0	-2.8	4.7

propanenitrile	C3H5N	2-propanol	C3H8O	0.808	360.68	1985	mat	gon	1	-9.9	-2.4
propanenitrile	C3H5N	benzene	C6H6	0.825	318.15	1995	art	mun	2	-10.9	-11
propanenitrile	C3H5N	ethyl 1,1-dimethylethyl ether	C6H14O	0.988	312.86	2010	hai	uus	1	-4.8	-4.7
1,3-dichloropropane	C3H6Cl2	acetone	C3H6O	0.723	313.15	1998	dra	bar	0	-10.4	-10.9
1,2-dichloropropane	C3H6Cl2	propanal	C3H6O	0.732	308.14	1977	bou	jad	0	-11.3	-11.7
acetone	C3H6O	methyl ethanoate	C3H6O2	0.504	328.78	1980	muh	fig	0	-2.7	-2.7
acetone	C3H6O	methyl ethanoate	C3H6O2	0.606	323.14	1981	ols		0	-2.8	-2.8
acetone	C3H6O	2-propanol	C3H8O	0.571	334.99	1989	gul		0	-11.5	-3.8
2-propenol	C3H6O	1-propanol	C3H8O	0.078	333.15	2004	lub	mal	0	0.8	0.8
acetone	C3H6O	2-methoxyethanol	C3H8O2	0.835	321.34	1979	cha	nag	0	-5.7	-4.5
acetone	C3H6O	butanone	C4H8O	0.276	303.15	1995	cam	bhe	0	-1.4	-1.4
propanal	C3H6O	butanone	C4H8O	0.017	318.14	1973	mat	kat	0	-1.7	-1.7
methyloxirane	C3H6O	2-methyl-2-propanol	C4H10O	0.65	315.24	1974	vos	kom	0	-7.1	-1.8
acetone	C3H6O	benzene	C6H6	0.837	330.63	1901	ebe		0	-2.5	-2.6
acetone	C3H6O	benzene	C6H6	0.533	303.14	1971	kra	lin	0	-12.5	-12.7
acetone	C3H6O	phenol	C6H6O	0.1	323.13	1963	goe		0	-145	-100.7
acetone	C3H6O	cyclohexane	C6H12	0.39	328.13	1957	rao	rao	2	-12.7	-12.5
acetone	C3H6O	cyclohexane	C6H12	0.482	313.15	1992	gor	ora	0	-13.1	-13
2-propenol	C3H6O	cyclohexane	C6H12	0.121	333.15	2002	lub	ban	0	-1.4	-1.2
acetone	C3H6O	hexane	C6H14	0.431	322.85	1961	ogo	kog	5	-15.7	-15.4
acetone	C3H6O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.612	327.75	1995	res	bet	0	-13	-12.9
acetone	C3H6O	triethylamine	C6H15N	0.042	318.14	1985	kie	bit	0	-20.8	-20.5
acetone	C3H6O	toluene	C7H8	0.131	318.13	1965	ory	pra	0	-29	-29.2
acetone	C3H6O	4-methylphenol	C7H8O	0.8	339.62	1936	pia		0	4.6	5.7
acetone	C3H6O	2,2,4-trimethylpentane	C8H18	0.31	303.13	1964	edw	sch	0	-16.7	-16.3
acetone	C3H6O	water	H2O	0.171	319.13	1902	sch		0	-43.5	-15
acetone	C3H6O	water	H2O	0.427	334.22	1949	gri	buf	0	-13.7	2.9
acetone	C3H6O	water	H2O	0.3	303.14	1973	dav	cot	0	-36	-9.3
acetone	C3H6O	water	H2O	0.1	318.14	1982	wan	tan	1	-47.1	-19.3
acetone	C3H6O	water	H2O	0.603	332.55	2000	gu	hou	0	-6.9	4.5

2-propenol	C3H6O	water	H2O	0.574	361.72	1957	har	moo	0	-1.9	-4
methyl ethanoate	C3H6O2	2-propanol	C3H8O	0.712	332.57	1993	ort	sus	0	-7.8	-2.4
methyl ethanoate	C3H6O2	1-propanol	C3H8O	0.9	318.14	1976	nag	oht	1	-0.4	1.1
methyl ethanoate	C3H6O2	tetrahydrofuran	C4H8O	0.904	330.37	1996	wis		9	0.7	0.6
methyl ethanoate	C3H6O2	ethyloxirane	C4H8O	0.014	336.2	1997	mon	wis	0	-0.5	-0.5
propanoic acid	C3H6O2	butanoic acid	C4H8O2	0.576	413.15	2006	gil	wil	2	3	3
propanoic acid	C3H6O2	2-methylpropanoic acid	C4H8O2	0.6	417.62	1972	tat	kus	0	-3.6	-3.6
methyl ethanoate	C3H6O2	ethyl ethanoate	C4H8O2	0.6	333.12	1921	sch		0	-6.2	-6.2
1,3-dioxacyclopentane	C3H6O2	1,4-dioxane	C4H8O2	0.206	337.73	1984	cas	fra	0	-7.6	-7.6
1,3-dioxacyclopentane	C3H6O2	2-chlorobutane	C4H9Cl	0.667	342.33	1994	wis	ape	3	-5.6	-5.6
1,3-dioxacyclopentane	C3H6O2	2-methyl-2-propanol	C4H10O	0.888	322.95	2004	rey	laf	0	-4.5	-1.4
1,3-dioxacyclopentane	C3H6O2	2-methyl-1-propanol	C4H10O	0.624	354.83	2004	rey	laf	0	-11.7	-4.7
methyl ethanoate	C3H6O2	2-methyl-1-propanol	C4H10O	0.508	332.58	1995	sus		0	-13.6	-4.5
propanoic acid	C3H6O2	ethyl propanoate	C5H10O2	0.674	358.17	1982	mac	ras	0	-8.5	-5.7
methyl ethanoate	C3H6O2	1,1-dimethylethyl methyl ether	C5H12O	0.701	324.55	1997	wis	emb	1	-0.5	-0.6
1,3-dioxacyclopentane	C3H6O2	chlorobenzene	C6H5Cl	0.506	356.53	1985	fra	com	3	-17.7	-18.1
methyl ethanoate	C3H6O2	benzene	C6H6	0.5	313.13	1921	sch		0	-13.9	-14.2
methyl ethanoate	C3H6O2	benzene	C6H6	0.761	313.14	1973	nag	oht	1	-7	-7.1
propanoic acid	C3H6O2	cyclohexane	C6H12	0.609	361.53	1980	svi	mal	0	25.4	24.7
1,3-dioxacyclopentane	C3H6O2	cyclohexane	C6H12	0.879	313.14	1989	wu	san	0	-6.8	-6.8
ethyl methanoate	C3H6O2	hexane	C6H14	0.359	325.6	2007	ort	sab	0	4.9	5
1,3-dioxacyclopentane	C3H6O2	hexane	C6H14	0.4	308.15	1999	cal	art	0	-3.5	-3.2
methyl ethanoate	C3H6O2	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.744	326.15	1996	wis	bla	0	-3.9	-4
1,3-dioxacyclopentane	C3H6O2	methylcyclohexane	C7H14	0.045	313.14	1988	cas	fra	0	5	5.5
propanoic acid	C3H6O2	heptane	C7H16	0.892	323.14	1981	sch		1	51.2	49.6
1,3-dioxacyclopentane	C3H6O2	1,3-dimethylbenzene	C8H10	0.31	341.33	1982	cas	fra	0	-16.7	-16.8
propanoic acid	C3H6O2	water	H2O	0.956	370.02	1961	riv		0	2.5	1.6
propanoic acid	C3H6O2	water	H2O	0.74	353.13	1978	raf	har	0	-20.6	-20.8
1,3-dioxacyclopentane	C3H6O2	water	H2O	0.55	323.14	1979	hrn	mat	0	-26.8	-10.2
dimethyl carbonate	C3H6O3	2-propanol	C3H8O	0.401	345.71	2012	mat	fuk	0	-14	-6.4

dimethyl carbonate	C3H6O3	1-propanol	C3H8O	0.85	334.74	2012	mat	fuk	0	-9.4	-4.6
dimethyl carbonate	C3H6O3	(RS)-2-butanol	C4H10O	0.749	343.49	2012	mat	fuk	0	-7.1	-1.5
dimethyl carbonate	C3H6O3	2-pentanone	C5H10O	0.121	372.33	2005	per	rod	1	-0.5	-0.6
dimethyl carbonate	C3H6O3	cyclohexane	C6H12	0.803	333.15	1993	neg	blo	0	3.8	3.6
dimethyl carbonate	C3H6O3	toluene	C7H8	0.053	318.13	1965	ory	pra	0	-1.2	-1.3
dimethyl carbonate	C3H6O3	heptane	C7H16	0.439	355.95	2002	rod	can	1	7.4	7.4
1-chloropropane	C3H7Cl	butanone	C4H8O	0.655	327.94	1971	gar	mir	0	2.1	2.1
1-chloropropane	C3H7Cl	tetrahydrofuran	C4H8O	0.493	329.01	2009	gin	mon	0	0	-0.1
1-chloropropane	C3H7Cl	tetrahydropyran	C5H10O	0.937	310.52	2009	gin	mon	0	0.6	0.6
dimethylformamide	C3H7NO	1-butanol	C4H10O	0.379	338.15	1991	wil	wil	0	-4.1	4.3
dimethylformamide	C3H7NO	2-methyl-1-propanol	C4H10O	0.382	389.35	2006	pra	sra	0	-7.8	-1.1
N-methylacetamide	C3H7NO	pyridine	C5H5N	0.704	398.6	1997	deh	fis	1	-14.7	-15.3
dimethylformamide	C3H7NO	2-methyl-1-butanol	C5H12O	0.454	409.58	2013	zhu	yao	0	-13.4	-5.3
dimethylformamide	C3H7NO	1-pentanol	C5H12O	0.549	397.05	1995	mar	gab	0	-5.6	3
dimethylformamide	C3H7NO	bromobenzene	C6H5Br	0.377	421.05	2008	pra	red	0	-15.6	-15.9
dimethylformamide	C3H7NO	2-methylpropyl ethanoate	C6H12O2	0.226	392.76	2005	mun	mon	0	-7.4	-7.4
dimethylformamide	C3H7NO	1-chlorohexane	C6H13Cl	0.537	313.15	2007	gar	emb	0	-21.3	-21.5
dimethylformamide	C3H7NO	triethylamine	C6H15N	0.341	323.14	1985	kie	bit	0	-17.7	-17.5
dimethylformamide	C3H7NO	toluene	C7H8	0.317	353.2	2000	zhe	zho	0	-11.3	-11.3
dimethylformamide	C3H7NO	1,4-dimethylbenzene	C8H10	0.1	409.35	1987	bag	rat	0	-7.3	-7.3
dimethylformamide	C3H7NO	water	H2O	0.371	365.02	1961	sus		0	8.7	13.9
dimethylformamide	C3H7NO	water	H2O	0.5	333.13	1978	mis	smi	0	-6.8	5.1
dimethylformamide	C3H7NO	water	H2O	0.926	343.15	1995	iul	ham	0	-6.1	18.8
N-methylacetamide	C3H7NO	water	H2O	0.22	353.13	1975	man	kor	0	6	3.5
2-nitropropane	C3H7NO2	cyclohexane	C6H12	0.055	318.14	1979	mar	fre	0	-2.8	-2.9
1-nitropropane	C3H7NO2	heptane	C7H16	0.643	372.42	1973	tol	kog	0	-6.5	-7.2
propane	C3H8	hydrogen sulfide	H2S	0.297	182.33	2006	lob	fer	0	6.6	6.4
2-propanol	C3H8O	1-propanol	C3H8O	0.973	313.14	1989	ora		0	0.2	0.2
2-propanol	C3H8O	2-methoxyethanol	C3H8O2	0.767	359.48	2007	lla	mon	2	-4.5	-4.1
1-propanol	C3H8O	2-methoxyethanol	C3H8O2	0.458	378.92	1977	cha	nag	0	-9.9	-8.7
1-propanol	C3H8O	thiophene	C4H4S	0.926	313.14	1983	tri		0	-26.7	-25.7

2-propanol	C3H8O	butanone	C4H8O	0.652	313.15	1996	gar	san	3	-19.3	-9.6
1-propanol	C3H8O	butanone	C4H8O	0.249	323.15	1996	gar	san	3	-7.3	-2.3
2-propanol	C3H8O	1,4-dioxane	C4H8O2	0.442	353.15	1998	rao	rav	0	-22.8	-12
2-propanol	C3H8O	ethyl ethanoate	C4H8O2	0.599	349.97	1958	mur	van	0	-8.2	-0.8
2-propanol	C3H8O	methyl propanoate	C4H8O2	0.763	350.93	1993	ort	sus	0	-10.7	-4.4
1-propanol	C3H8O	propyl methanoate	C4H8O2	0.9	364.72	1967	moz	mit	1	-9.8	-5.1
1-propanol	C3H8O	methyl propanoate	C4H8O2	0.08	355.79	1990	ort	sus	3	-2.1	0
1-propanol	C3H8O	2-methyl-1-propanol	C4H10O	0.114	323.13	1948	udo	fri	1	-1.5	-1.6
1-propanol	C3H8O	1-butanamine	C4H11N	0.767	313.14	1976	cho		0	24.6	12.8
1-propanol	C3H8O	N-methyl-2-pyrrolidone	C5H9NO	0.944	333.15	1994	bit	eck	0	0.4	0.6
2-propanol	C3H8O	3-pentanone	C5H10O	0.786	357.33	1989	ste	kuk	0	-1.5	1.7
1-propanol	C3H8O	tetrahydropyran	C5H10O	0.151	353.33	2008	uno	mat	0	-6.8	-3.1
2-propanol	C3H8O	ethyl propanoate	C5H10O2	0.8	343	2012	sun	gor	0	-10.7	-6.8
2-propanol	C3H8O	1-methylethyl ethanoate	C5H10O2	0.8	354.03	1971	nis		0	-6.7	-2.3
2-propanol	C3H8O	propyl ethanoate	C5H10O2	0.833	351.55	1999	gon	ort	0	-24.3	-20.8
2-propanol	C3H8O	butyl methanoate	C5H10O2	0.441	359.5	1996	gon	ort	6	-13	-6.2
1-propanol	C3H8O	propyl ethanoate	C5H10O2	0.905	369.32	1959	pic	hal	0	-3.3	-0.7
1-propanol	C3H8O	propyl ethanoate	C5H10O2	0.04	373.47	2000	ort	gon	0	-1.3	0.9
1-propanol	C3H8O	methyl butanoate	C5H10O2	0.589	333.13	1985	fer	ber	0	-18.4	-9.8
1-propanol	C3H8O	2-methyl-1-butanol	C5H12O	0.935	371.43	2006	res	gon	0	0.1	0
1-propanol	C3H8O	1-pentanol	C5H12O	0.688	361.01	1983	vil		0	-0.6	-0.6
1-propanol	C3H8O	chlorobenzene	C6H5Cl	0.838	347.12	1960	ell	mcd	0	-6	-5.6
2-propanol	C3H8O	benzene	C6H6	0.36	333.32	1965	nag		0	-11.4	-9.9
2-propanol	C3H8O	benzene	C6H6	0.932	351.56	1973	toj	bao	0	-8.3	-7.8
2-propanol	C3H8O	benzene	C6H6	0.35	313.15	2001	rho	gri	0	-14.8	-13.5
1-propanol	C3H8O	benzene	C6H6	0.359	321.73	1947	bri	nut	0	-12.7	-11.2
1-propanol	C3H8O	benzene	C6H6	0.124	350.38	1973	toj	bao	0	-3.8	-2.4
1-propanol	C3H8O	benzene	C6H6	0.494	340.12	1975	str	svo	0	-12.4	-10.6
1-propanol	C3H8O	benzene	C6H6	0.937	313.14	1987	ora	kol	0	-20	-19.1
1-propanol	C3H8O	benzene	C6H6	0.589	342.45	2008	mej	seg	0	-18.3	-16.4
2-propanol	C3H8O	cyclohexane	C6H12	0.484	342.32	1963	yua	lu	0	-7.5	-7.5

2-propanol	C3H8O	cyclohexane	C6H12	0.732	298.15	1996	gup	mak	0	-17.7	-18.5
1-propanol	C3H8O	cyclohexane	C6H12	0.762	338.13	1970	str	svo	0	-12.8	-13
1-propanol	C3H8O	cyclohexane	C6H12	0.152	333.15	1997	kur	uch	0	-5.9	-5.6
1-propanol	C3H8O	propyl propanoate	C6H12O2	0.53	372.12	1967	moz	mit	1	-20.3	-13
1-propanol	C3H8O	butyl ethanoate	C6H12O2	0.518	375.78	1995	gon	ort	1	-10.9	-4
2-propanol	C3H8O	hexane	C6H14	0.278	335.03	1976	gov	and	0	-5.8	-5.5
2-propanol	C3H8O	hexane	C6H14	0.983	323.14	1988	mac	fra	0	-6.6	-6.8
1-propanol	C3H8O	hexane	C6H14	0.705	298.14	1982	sch	ale	0	-20.6	-21.3
2-propanol	C3H8O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.342	339.45	1940	mil	bli	0	-21.9	-14.4
2-propanol	C3H8O	dipropyl ether	C6H14O	0.357	293.15	1997	gar	san	2	-21.2	-14.2
2-propanol	C3H8O	ethyl 1,1-dimethylethyl ether	C6H14O	0.21	333.75	2002	seg	mej	0	-17.6	-11.8
1-propanol	C3H8O	dipropyl ether	C6H14O	0.084	278.15	1997	gar	san	2	-6.3	-4.1
1-propanol	C3H8O	ethyl 1,1-dimethylethyl ether	C6H14O	0.268	326.84	2007	mej	seg	0	-15	-9.1
2-propanol	C3H8O	4-methyl-3,5-dioxaheptane	C6H14O2	0.458	353.32	2005	kim	sap	0	-19.1	-10.1
2-propanol	C3H8O	triethylamine	C6H15N	0.712	303.19	1974	chu	dru	0	-1.9	3.7
1-propanol	C3H8O	triethylamine	C6H15N	0.338	283.15	1974	chu	dru	0	-5.8	2.6
2-propanol	C3H8O	toluene	C7H8	0.38	362.35	2012	che	zho	0	-11.9	-10.6
2-propanol	C3H8O	heptane	C7H16	0.112	303.13	1967	van	soc	0	-10.3	-10.4
2-propanol	C3H8O	heptane	C7H16	0.498	313.15	2002	cha	seg	0	-8.2	-8.5
1-propanol	C3H8O	heptane	C7H16	0.499	303.13	1967	van	soc	0	-11.6	-11.7
1-propanol	C3H8O	heptane	C7H16	0.907	288.15	1980	sip	wie	0	-26.3	-27.5
1-propanol	C3H8O	heptane	C7H16	0.84	313.15	1992	zie		0	-17.5	-18.1
1-propanol	C3H8O	benzene, ethenyl-	C8H8	0.942	311.93	1957	mal	mal	0	-4.4	-4.2
1-propanol	C3H8O	ethylbenzene	C8H10	0.664	371.42	1954	ell	fro	0	-7.7	-7.1
2-propanol	C3H8O	2,2,4-trimethylpentane	C8H18	0.171	340	2008	psu	wic	0	-8.2	-7.9
1-propanol	C3H8O	octane	C8H18	0.582	313.14	1976	ora		0	-11.2	-11.5
1-propanol	C3H8O	2,2,4-trimethylpentane	C8H18	0.501	328.36	1981	ber	nea	0	-10	-9.8
2-propanol	C3H8O	water	H2O	0.025	362.12	1948	dun		0	5.3	-0.7
2-propanol	C3H8O	water	H2O	0.031	333.12	1967	udo	maz	0	8.9	1.8
2-propanol	C3H8O	water	H2O	0.714	353.26	1970	ver		2	-2.9	-6

2-propanol	C3H8O	water	H2O	0.175	348.22	1975	sad	mor	0	-0.2	-6.2
2-propanol	C3H8O	water	H2O	0.032	298.14	1984	nor	tuc	0	18.5	11.1
2-propanol	C3H8O	water	H2O	0.069	298.14	1984	nor	tuc	0	8.1	-0.5
2-propanol	C3H8O	water	H2O	0.024	308.14	1984	nor	tuc	0	16.4	9.5
2-propanol	C3H8O	water	H2O	0.052	308.14	1984	nor	tuc	0	10.4	2.1
2-propanol	C3H8O	water	H2O	0.079	308.14	1984	nor	tuc	0	4.5	-4.1
2-propanol	C3H8O	water	H2O	0.7	349.63	1986	zha	wan	0	-0.6	-3.7
2-propanol	C3H8O	water	H2O	0.689	353.28	2003	arc	arc	0	-2.8	-6
1-propanol	C3H8O	water	H2O	0.432	360.92	1910	dor	pol	0	-1.6	-5.1
1-propanol	C3H8O	water	H2O	0.482	360.92	1958	mur	van	0	-1.8	-5.4
1-propanol	C3H8O	water	H2O	0.7	361.92	1968	koj	toc	0	-3.3	-7
1-propanol	C3H8O	water	H2O	0.496	350.73	1979	goe	sti	0	-1.5	-5.3
1-propanol	C3H8O	water	H2O	0.177	332.08	1996	gab	mar	0	-5.4	-10.1
1,3-propanediol	C3H8O2	1,2,3-propanetriol	C3H8O3	0.15	441.99	2012	mok	saw	0	-15.9	-16.1
1,2-propanediol	C3H8O2	1,2-propanediyl carbonate	C4H6O3	0.622	403.87	2011	mat	kim	0	-15.3	-8.9
1,2-propanediol	C3H8O2	1,2-butanediol	C4H10O2	0.122	403.29	2013	zha	wu	0	-3.8	-3.8
2-methoxyethanol	C3H8O2	2-(N,N-dimethylamino)ethanol	C4H11NO	0.554	346.74	1970	qui	hof	0	5.1	4.2
2-methoxyethanol	C3H8O2	cyclohexane	C6H12	0.019	352.34	2010	mar	lor	0	-1	-0.8
2-methoxyethanol	C3H8O2	heptane	C7H16	0.701	323.15	2001	car	bhe	0	-25.3	-26.3
2-methoxyethanol	C3H8O2	ethylbenzene	C8H10	0.522	392.22	1977	kum	raj	0	-11	-10.8
1,2-propanediol	C3H8O2	water	H2O	0.026	318.14	1975	ver	ver	0	0.5	0.4
1,2,3-propanetriol	C3H8O3	water	H2O	0.601	333.13	1970	var	ste	0	15.8	10.7
1,2,3-propanetriol	C3H8O3	water	H2O	0.133	329.31	2011	coe	dos	0	7.2	6.4
1-propanethiol	C3H8S	benzene	C6H6	0.279	333.13	1989	mcn	wil	0	22.5	22.6
1-propanethiol	C3H8S	hexane	C6H14	0.065	340.76	1949	den	fid	0	0.4	0.5
2-propanamine	C3H9N	hexane	C6H14	0.515	303.14	1983	wol	sha	0	5.3	2.5
1-propanamine	C3H9N	hexane	C6H14	0.429	323.14	1983	wol	sha	0	7.2	3.2
2-(methylamino)ethanol	C3H9NO	N-methyldiethanolamine	C5H13NO2	0.75	351.13	1989	smi	ter	0	1	0.4
trimethyl phosphite	C3H9O3P	benzene	C6H6	0.4	324.35	1990	dut	kah	0	0.3	0.3
1,3-propanediamine	C3H10N2	water	H2O	0.744	303.15	2011	ahm	neg	0	8.7	-46

1-buten-3-yne	C4H4	ammonia	H3N	0.14	218.19	1964	sha	bra	0	-12.1	-14.9
thiophene	C4H4S	pyridine	C5H5N	0.385	370.57	1979	sus		0	-10	-10
thiophene	C4H4S	benzene	C6H6	0.496	328.14	1971	kud	vii	0	-3.8	-3.8
thiophene	C4H4S	2,3-dimethyl-2-butene	C6H12	0.408	347.34	2012	bai	guo	0	-4.4	-4.1
thiophene	C4H4S	toluene	C7H8	0.604	361.32	2006	erl	zay	0	-0.8	-0.8
thiophene	C4H4S	methylcyclohexane	C7H14	0.426	348.13	1980	dia	cre	0	2.7	3.1
pyrrole	C4H5N	1-butanol	C4H10O	0.312	366.6	2012	zaw	nge	0	-30.1	-29.2
pyrrole	C4H5N	1-pentanol	C5H12O	0.798	373.2	2012	zaw	nge	0	-14.9	-12
2-butenal	C4H6O	ethenyl ethanoate	C4H6O2	0.165	328.14	1975	war	sur	0	-2.4	-2.5
2-butenal	C4H6O	1-butanol	C4H10O	0.289	344.78	1970	rum	kul	0	-21.2	-10.6
2-butenal	C4H6O	water	H2O	0.011	370.12	1969	kil	zad	0	5.8	8.7
2-methyl-2-propenoic acid	C4H6O2	2-methylpropanoic acid	C4H8O2	0.842	361.18	1989	li	xin	0	2.5	2.5
methyl propenoate	C4H6O2	1-butanol	C4H10O	0.9	354.53	1976	chu	dan	0	-2	-0.3
ethenyl ethanoate	C4H6O2	methyl methacrylate	C5H8O2	0.946	347.23	1990	wis	tam	0	2.5	2.5
.gamma.-butyrolactone	C4H6O2	water	H2O	0.368	379.07	1989	ram	oda	0	-4.5	1
ethanoic anhydride	C4H6O3	octane	C8H18	0.032	397.7	1995	haa	hei	0	-0.1	0.1
butanenitrile	C4H7N	1-butanol	C4H10O	0.314	288.15	1995	gar	put	0	-37.6	-23.9
butanenitrile	C4H7N	2-methyl-2-propanol	C4H10O	0.304	303.15	1997	gar	san	3	-14.4	-9.8
butanenitrile	C4H7N	2-methyl-1-propanol	C4H10O	0.511	313.15	1997	gar	san	3	-20.4	-11.7
butanenitrile	C4H7N	(RS)-2-butanol	C4H10O	0.916	293.15	1997	gar	san	1	-9.6	-5.6
butanenitrile	C4H7N	benzene	C6H6	0.603	318.15	1995	art	mun	2	-11	-11.1
2-methylpropanal	C4H8O	ethyl ethanoate	C4H8O2	0.832	313.14	1986	she	bau	0	-0.2	-0.2
butanone	C4H8O	butanoic acid	C4H8O2	0.904	352.13	1977	ras	kie	0	3	3.1
tetrahydrofuran	C4H8O	pyrrolidine	C4H9N	0.755	333.35	1990	wu	loc	0	-1.2	-1.7
butanone	C4H8O	2-methyl-2-propanol	C4H10O	0.883	352.1	1969	ren		0	-2.4	1.1
butanone	C4H8O	(RS)-2-butanol	C4H10O	0.443	361.82	1977	sch	qui	0	-4.7	2.7
butanone	C4H8O	3-pentanone	C5H10O	0.903	354.23	1974	glu	tar	0	-0.3	-0.3
butanone	C4H8O	bromobenzene	C6H5Br	0.952	327.14	1988	ram	kri	3	-1	-1
butanal	C4H8O	benzene	C6H6	0.784	313.14	1989	leu	che	0	1.4	1.4
butanone	C4H8O	benzene	C6H6	0.782	333.13	1984	rat	pal	0	-7.4	-7.4
butanone	C4H8O	cyclohexanone	C6H10O	0.735	360.45	2007	pra	suj	0	3.5	3.4

tetrahydrofuran	C4H8O	cyclohexanone	C6H10O	0.402	333.13	1984	rat	par	0	-3.4	-3.4
butanone	C4H8O	cyclohexane	C6H12	0.945	293.15	1989	van	koh	0	-7	-7
tetrahydrofuran	C4H8O	cyclohexane	C6H12	0.077	298.14	1975	des	osw	0	-1.7	-1.6
tetrahydrofuran	C4H8O	cyclohexane	C6H12	0.862	339.15	1993	wan		1	-2.1	-2.1
butanone	C4H8O	hexane	C6H14	0.63	338.13	1972	mar	rat	1	-7	-6.7
tetrahydrofuran	C4H8O	3-methylpentane	C6H14	0.652	334	1999	lor	auc	3	-7.1	-7
tetrahydrofuran	C4H8O	hexane	C6H14	0.966	338.42	1980	lam	mat	0	-1.7	-1.7
butanone	C4H8O	1-hexanol	C6H14O	0.703	313.15	1996	gar	san	2	-7	-2.3
tetrahydrofuran	C4H8O	ethyl 1,1-dimethylethyl ether	C6H14O	0.232	322.32	2003	seg	mej	0	-5.3	-5.2
butanone	C4H8O	toluene	C7H8	0.739	329.34	1972	riv		0	-6.9	-6.9
tetrahydrofuran	C4H8O	toluene	C7H8	0.301	336.13	1975	riv		0	-2.2	-2.3
butanone	C4H8O	methoxybenzene	C7H8O	0.065	333.4	1992	yan	bot	0	-11.2	-11.3
ethyloxirane	C4H8O	heptane	C7H16	0.156	313.15	1994	jon	sav	0	-5.3	-4.9
tetrahydrofuran	C4H8O	heptane	C7H16	0.577	313.14	1988	des	osw	0	-7.1	-7.1
butanal	C4H8O	heptane	C7H16	0.127	318.14	1984	eng	san	0	-10.4	-9.8
butanone	C4H8O	2,4,4-trimethyl-1-pentene	C8H16	0.229	313.14	1989	nhu	sve	0	-17	-16.7
butanone	C4H8O	water	H2O	0.189	346.77	1932	hir		0	-31.6	-14.1
butanone	C4H8O	water	H2O	0.662	346.87	1964	alt	mor	0	-13.3	-2.3
butanone	C4H8O	water	H2O	0.86	347.73	1995	moo	och	0	-9.6	-0.3
tetrahydrofuran	C4H8O	water	H2O	0.048	341.34	1973	pin		0	-21.7	-10.7
tetrahydrofuran	C4H8O	water	H2O	0.8	312	2011	mat	kam	0	-18.6	-10.2
1,4-dioxane	C4H8O2	ethyl ethanoate	C4H8O2	0.797	293.14	1966	ste	bit	0	-7.4	-7.4
1,4-dioxane	C4H8O2	2-chlorobutane	C4H9Cl	0.574	352.15	2003	rey	har	0	-9.6	-9.7
ethyl ethanoate	C4H8O2	diethyl ether	C4H10O	0.1	283.09	1926	sch		0	0.6	0.6
ethyl ethanoate	C4H8O2	1-butanol	C4H10O	0.919	351.73	1986	ort	pen	1	-1.3	-0.1
methyl propanoate	C4H8O2	1-butanol	C4H10O	0.033	348.13	1987	fer	ber	0	-9.5	-4.2
1,4-dioxane	C4H8O2	2-methyl-2-propanol	C4H10O	0.952	333.95	2008	red	rao	0	-5.3	-2.2
propyl methanoate	C4H8O2	2-methyl-1-propanol	C4H10O	0.671	357.25	1999	ort	her	0	-8.6	-3.1
1,4-dioxane	C4H8O2	2-methyl-1-propanol	C4H10O	0.922	333.15	2008	red	rao	0	-6.5	-4.6
propyl methanoate	C4H8O2	(RS)-2-butanol	C4H10O	0.224	364.15	1999	gon	ort	0	-7.1	-0.6
1,4-dioxane	C4H8O2	1-butanamine	C4H11N	0.086	298.14	1988	ace	pos	1	0.6	1.2

ethyl ethanoate	C4H8O2	diethylamine	C4H11N	0.223	331.32	1966	eng	bit	0	1.2	0.3
ethyl ethanoate	C4H8O2	diethylamine	C4H11N	0.578	322.53	1966	eng	bit	1	3.1	0.7
ethyl ethanoate	C4H8O2	diethylamine	C4H11N	0.63	320.64	1969	eng	bit	0	3.9	1.3
1,4-dioxane	C4H8O2	cyclopentane	C5H10	0.885	320.28	2005	rom	vil	0	-18.2	-18.4
ethyl ethanoate	C4H8O2	1-chloropentane	C5H11Cl	0.784	353.75	1994	ort	pen	0	-1.1	-1.2
1,4-dioxane	C4H8O2	benzene	C6H6	0.5	298.14	1972	des	osw	0	-9.6	-9.8
ethyl ethanoate	C4H8O2	benzene	C6H6	0.2	273.1	1926	sch		0	-7.3	-7.4
1,4-dioxane	C4H8O2	cyclohexane	C6H12	0.456	313.14	1988	des	osw	0	-3.3	-3.1
ethyl ethanoate	C4H8O2	butyl ethanoate	C6H12O2	0.313	350.11	2013	laa	pok	1	2.3	2.2
ethyl ethanoate	C4H8O2	hexane	C6H14	0.485	338.48	2010	fer	per	0	0.6	0.6
1,4-dioxane	C4H8O2	toluene	C7H8	0.447	298.14	1975	des	osw	0	-7.6	-7.7
ethyl ethanoate	C4H8O2	toluene	C7H8	0.773	354.26	1962	car	kro	0	-2.5	-2.6
ethyl ethanoate	C4H8O2	toluene	C7H8	0.772	323.14	1972	lin	pro	0	14.5	14.5
butanoic acid	C4H8O2	octane	C8H18	0.736	409.62	1976	rad	han	0	28.7	28.2
1,4-dioxane	C4H8O2	water	H2O	0.57	293.14	1940	nii		0	-32.7	-13.2
1,4-dioxane	C4H8O2	water	H2O	0.035	343.13	1977	kor	val	0	-9.6	-4.1
1,4-dioxane	C4H8O2	water	H2O	0.5	353.15	1997	iul	ham	0	-27.5	-11.6
ethyl ethanoate	C4H8O2	water	H2O	0.433	343.63	1985	ouy	wan	1	-21.8	-6.8
sulfolane	C4H8O2S	benzene	C6H6	0.091	348.13	1985	he	wu	0	-2.2	-2.2
sulfolane	C4H8O2S	1,2-dimethylbenzene	C8H10	0.924	373.1	1995	ton	gao	2	-88.3	-94.9
sulfolane	C4H8O2S	ethylbenzene	C8H10	0.087	357.8	2011	jon	maa	0	-7.9	-7.9
sulfolane	C4H8O2S	1,3-dimethylbenzene	C8H10	0.815	373.1	1995	ton	gao	2	-26.2	-29
methyl 2-hydroxypropanoate	C4H8O3	water	H2O	0.309	283.15	2005	san	gme	0	0.4	-0.3
1-bromobutane	C4H9Br	1-butanol	C4H10O	0.806	313.15	2002	gar	mar	0	-4.6	-3.5
1-bromobutane	C4H9Br	2-methyl-2-propanol	C4H10O	0.406	318.15	2002	gar	mar	0	-10.9	-10.3
1-bromobutane	C4H9Br	2-methyl-1-propanol	C4H10O	0.613	308.15	2003	mar	gar	0	-11.8	-10.5
1-bromobutane	C4H9Br	(RS)-2-butanol	C4H10O	0.097	313.15	2003	mar	gar	0	-17.9	-17.4
1-bromobutane	C4H9Br	1-hexanol	C6H14O	0.764	298.15	2003	gar	mar	0	-4.3	-3.3
1-chlorobutane	C4H9Cl	2-methyl-1-propanol	C4H10O	0.158	308.15	2001	gar	mar	0	-32.2	-30.8
1-chlorobutane	C4H9Cl	(RS)-2-butanol	C4H10O	0.753	308.15	2001	gar	mar	0	-4.5	-3.4
1-chlorobutane	C4H9Cl	chlorobenzene	C6H5Cl	0.825	298.16	1983	khu	mut	1	-1.4	-1.5

1-chlorobutane	C4H9Cl	cyclohexane	C6H12	0.26	351.47	2006	hid	dah	0	1.3	1.5
1-chlorobutane	C4H9Cl	hexane	C6H14	0.3	298.15	2009	per	gin	0	-1.4	-1.2
1-chlorobutane	C4H9Cl	1-hexanol	C6H14O	0.22	318.15	2001	mar	gar	0	-25.3	-22.9
2-chlorobutane	C4H9Cl	toluene	C7H8	0.586	323.15	1996	dah	wic	0	-0.1	-0.1
1-chlorobutane	C4H9Cl	heptane	C7H16	0.474	318.14	1981	ash	ver	0	-0.8	-0.6
1-chlorobutane	C4H9Cl	heptane	C7H16	0.356	360.41	2006	hid	dah	0	-0.6	-0.3
1-chlorobutane	C4H9Cl	2,4,4-trimethyl-1-pentene	C8H16	0.852	293.15	1989	nhu	sve	0	-1	-1
1-chlorobutane	C4H9Cl	2,2,4-trimethylpentane	C8H18	0.59	293.15	1989	van	sve	0	-2.4	-2.2
2-chloro-2-methylpropane	C4H9Cl	2,2,4-trimethylpentane	C8H18	0.77	293.15	1988	van	now	0	-1.7	-1.6
tetrahydro-1,4-oxazine	C4H9NO	1-butanol	C4H10O	0.448	363.35	1991	wu	loc	0	5.8	4.4
2-butanone oxime	C4H9NO	3-pentanone	C5H10O	0.954	353.13	1968	gei	koe	0	-22.9	-19.1
tetrahydro-1,4-oxazine	C4H9NO	cyclohexane	C6H12	0.673	364.24	2010	mar	san	0	2.4	-1.6
2-butanone oxime	C4H9NO	heptane	C7H16	0.895	338.13	1968	gei	koe	0	3.1	1.7
1-butanol	C4H10O	2-methyl-2-propanol	C4H10O	0.7	329.65	1969	qui	koe	0	7.6	7.6
1-butanol	C4H10O	2-methyl-1-propanol	C4H10O	0.182	382.22	1975	tam	wis	0	-1.2	-1.2
1-butanol	C4H10O	(RS)-2-butanol	C4H10O	0.128	313.14	1973	gei	sue	0	-2.5	-2.5
2-methyl-1-propanol	C4H10O	(RS)-2-butanol	C4H10O	0.647	377.92	1975	wis	tam	1	1	1
1-butanol	C4H10O	3-oxa-1,5-pentanediol	C4H10O3	0.8	351.13	1977	vis	evd	1	0.5	0.6
2-methyl-2-propanol	C4H10O	pyridine	C5H5N	0.597	313.14	1977	war		1	2.2	8.1
(RS)-2-butanol	C4H10O	2,4-pentanedione	C5H8O2	0.509	298.14	1980	kat		0	-16.1	-5.6
2-methyl-1-propanol	C4H10O	tetrahydropyran	C5H10O	0.199	344.3	2008	uno	mat	0	-5.1	-1.7
(RS)-2-butanol	C4H10O	tetrahydropyran	C5H10O	0.495	353.41	2008	uno	mat	0	-9	-1.9
1-butanol	C4H10O	propyl ethanoate	C5H10O2	0.691	381.97	1987	ort	oco	0	-9.2	-1.6
1-butanol	C4H10O	methyl butanoate	C5H10O2	0.609	368.13	1987	fer	ber	0	-11	-2.8
(RS)-2-butanol	C4H10O	propyl ethanoate	C5H10O2	0.688	361.93	1999	gon	ort	0	-47	-38.8
(RS)-2-butanol	C4H10O	butyl methanoate	C5H10O2	0.757	371.02	1996	gon	ort	2	-6.2	-2
1-butanol	C4H10O	diethyl carbonate	C5H10O3	0.832	389.67	2003	rod	can	2	-5.8	-2.1
1-butanol	C4H10O	2-methyl-2-butanol	C5H12O	0.395	380.12	1976	and	kom	0	-1.6	-1.6
2-methyl-2-propanol	C4H10O	1-pentanol	C5H12O	0.131	313.14	1989	ora		0	9.6	9.5
2-methyl-2-propanol	C4H10O	1,1-dimethylethyl methyl ether	C5H12O	0.512	336.95	1999	lor	auc	1	-13.3	-5.2

1-butanol	C4H10O	bromobenzene	C6H5Br	0.854	367.14	1997	art	laf	0	-3.1	-2.7
2-methyl-2-propanol	C4H10O	bromobenzene	C6H5Br	0.608	362.27	2001	art	laf	1	-9.5	-9.1
1-butanol	C4H10O	chlorobenzene	C6H5Cl	0.192	364.55	1997	art	laf	0	-6.8	-4.8
2-methyl-2-propanol	C4H10O	chlorobenzene	C6H5Cl	0.237	344.05	2001	art	laf	1	-17.7	-15.9
1-butanol	C4H10O	2-chlorophenol	C6H5ClO	0.456	383.15	1995	gab	mar	0	-7.7	-13.2
diethyl ether	C4H10O	benzene	C6H6	0.285	293.14	1938	tah		0	-4.4	-4.2
1-butanol	C4H10O	benzene	C6H6	0.176	313.14	1980	ora	kol	0	-3.4	-2.3
2-methyl-2-propanol	C4H10O	benzene	C6H6	0.857	343.13	1973	rui		0	-8.2	-7.4
2-methyl-1-propanol	C4H10O	benzene	C6H6	0.095	352.92	1967	nat	rao	0	-0.3	0.8
2-methyl-1-propanol	C4H10O	benzene	C6H6	0.256	308.15	1998	bha	mak	1	-11.9	-10.5
(RS)-2-butanol	C4H10O	benzene	C6H6	0.941	313.15	2006	vil	mar	0	-20.3	-19.2
2-methyl-1-propanol	C4H10O	cyclohexanone	C6H10O	0.602	389.45	2007	pra	sud	0	-2.9	1.8
1-butanol	C4H10O	cyclohexane	C6H12	0.758	363.02	1963	rao	rao	4	-12.9	-12.6
1-butanol	C4H10O	cyclohexane	C6H12	0.703	359.79	1983	zon	yan	0	-14.3	-14
2-methyl-2-propanol	C4H10O	cyclohexane	C6H12	0.229	324.2	1969	ren		0	-2.5	-2.4
(RS)-2-butanol	C4H10O	cyclohexane	C6H12	0.689	313.15	2009	gie	kos	0	-7.5	-7.7
1-butanol	C4H10O	butyl ethanoate	C6H12O2	0.261	393.47	1987	ort	pen	0	-6	0.5
2-methyl-2-propanol	C4H10O	propyl propanoate	C6H12O2	0.589	363.41	2006	ort	esp	0	-3.1	1.3
2-methyl-2-propanol	C4H10O	1,1-dimethylethyl ethanoate	C6H12O2	0.672	357.5	2005	mon	mun	0	-1.1	3.2
2-methyl-1-propanol	C4H10O	propyl propanoate	C6H12O2	0.15	390.7	1999	ort	her	0	-2.8	2.8
(RS)-2-butanol	C4H10O	1-methylpropyl ethanoate	C6H12O2	0.574	374.95	2013	wan	xia	0	0.8	6.4
1-butanol	C4H10O	2-methylpentane	C6H14	0.136	303.15	1994	gar	san	0	-2.5	-2.2
1-butanol	C4H10O	hexane	C6H14	0.427	323.12	1992	gra	gar	0	-7.8	-7.4
1-butanol	C4H10O	hexane	C6H14	0.982	293.12	1992	gra	san	0	-36.3	-37.5
1-butanol	C4H10O	2,3-dimethylbutane	C6H14	0.511	298.15	1994	gar	per	0	-12.3	-12.2
2-methyl-2-propanol	C4H10O	hexane	C6H14	0.696	298.15	1993	rod	par	0	-1.8	-2.3
(RS)-2-butanol	C4H10O	hexane	C6H14	0.13	323.15	1993	ara	mac	0	-5.6	-5.1
1-butanol	C4H10O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.048	313.15	2006	vil	mar	1	-0.8	-0.4
1-butanol	C4H10O	dipropyl ether	C6H14O	0.803	323.15	1997	gar	per	0	-33	-21.8
2-methyl-1-propanol	C4H10O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.6	313.15	2006	vil	cha	0	-40	-24.2

2-methyl-1-propanol	C4H10O	dipropyl ether	C6H14O	0.4	308.15	1998	gar	san	0	-18.2	-10.8
(RS)-2-butanol	C4H10O	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.499	313.15	2006	vil	mar	0	-31.1	-19.9
(RS)-2-butanol	C4H10O	dipropyl ether	C6H14O	0.617	313.15	1998	gar	san	0	-24.2	-15.8
(RS)-2-butanol	C4H10O	1-propoxy-2-propanol	C6H14O2	0.767	339.4	2008	ram	neu	0	-1.2	-1.1
1-butanol	C4H10O	triethylamine	C6H15N	0.491	313.14	1975	chu	dru	0	-5.1	4.2
2-methyl-2-propanol	C4H10O	triethylamine	C6H15N	0.129	303.19	1975	chu	dru	0	-7.5	-3
1-butanol	C4H10O	toluene	C7H8	0.204	333.29	1977	lne	wic	0	-6.3	-4.9
1-butanol	C4H10O	toluene	C7H8	0.503	368	1997	dar	alk	0	-6.2	-4.4
2-methyl-1-propanol	C4H10O	toluene	C7H8	0.407	343.38	1977	lne	wic	0	-9.9	-8.3
(RS)-2-butanol	C4H10O	toluene	C7H8	0.887	308.15	2004	mak	bha	0	-16.9	-16.3
2-methyl-1-propanol	C4H10O	2-methylphenol	C7H8O	0.793	386.85	2006	pra	jai	0	2.4	1.8
2-methyl-2-propanol	C4H10O	methylcyclohexane	C7H14	0.979	355.3	1999	mar	pen	0	0.7	0.7
1-butanol	C4H10O	heptane	C7H16	0.746	338.13	1980	kum	kat	0	-28	-27.9
1-butanol	C4H10O	heptane	C7H16	0.892	360.95	2010	moh	mem	0	-8.8	-8.6
2-methyl-2-propanol	C4H10O	heptane	C7H16	0.602	338.13	1980	kum	kat	0	-2.5	-2.5
2-methyl-1-propanol	C4H10O	heptane	C7H16	0.551	348.13	1980	kum	kat	1	-11.2	-10.7
(RS)-2-butanol	C4H10O	heptane	C7H16	0.925	348.13	1980	kum	kat	1	-4.4	-4.4
(RS)-2-butanol	C4H10O	1,1-dimethylpropyl ethyl ether	C7H16O	0.09	358.06	2012	sun	laa	0	-9.3	-5.8
1-butanol	C4H10O	ethylbenzene	C8H10	0.907	309.94	1977	mat	mun	0	-13.4	-13
2-methyl-2-propanol	C4H10O	2,4,4-trimethyl-1-pentene	C8H16	0.404	333.14	2007	mal		0	-4.1	-3.7
(RS)-2-butanol	C4H10O	2,4,4-trimethyl-1-pentene	C8H16	0.179	360.17	2001	uus	pok	0	-3.2	-2
1-butanol	C4H10O	octane	C8H18	0.273	288.18	1992	gra	gar	1	-8.2	-8.2
2-methyl-1-propanol	C4H10O	2,2,4-trimethylpentane	C8H18	0.941	348.15	2011	ber	pav	1	-10	-9.9
diethyl ether	C4H10O	water	H2O	0.01	298.14	1969	sig	arm	0	49.2	51.9
1-butanol	C4H10O	water	H2O	0.812	374.32	1960	orr	coa	0	0.4	-4.3
1-butanol	C4H10O	water	H2O	0.95	333.13	1971	sch	sch	0	-11.5	-15.8
2-methyl-2-propanol	C4H10O	water	H2O	0.032	343.13	1968	qui	kop	0	9.2	-1.3
2-methyl-2-propanol	C4H10O	water	H2O	0.038	303.15	1990	kog	won	0	27.1	17
2-methyl-2-propanol	C4H10O	water	H2O	0.07	355.49	2002	yan	wan	0	18.7	11
(RS)-2-butanol	C4H10O	water	H2O	0.017	364.12	1942	boe	han	0	11.7	5.9

(RS)-2-butanol	C4H10O	water	H2O	0.027	361.59	1964	alt	bel	0	10.4	3.8
(RS)-2-butanol	C4H10O	water	H2O	0.7	298.14	1987	gau	kre	0	6.6	0.8
2-ethoxyethanol	C4H10O2	butyl methanoate	C5H10O2	0.314	333.15	2004	chy	fra	0	-13.2	-10.4
2-ethoxyethanol	C4H10O2	phenol	C6H6O	0.171	363.15	2001	chy	fra	0	1.8	-2.9
2-ethoxyethanol	C4H10O2	cyclohexane	C6H12	0.601	303.15	2000	car	gon	0	-18.6	-19.4
1-methoxy-2-propanol	C4H10O2	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.2	340	2004	psu	wic	0	-6.3	-4.6
2-ethoxyethanol	C4H10O2	benzene, ethenyl-	C8H8	0.46	334.63	1968	gar	bov	0	9.1	9.5
2-ethoxyethanol	C4H10O2	1,2-dimethylbenzene	C8H10	0.181	338.13	1968	gar	bov	0	17.8	18.1
2-ethoxyethanol	C4H10O2	octane	C8H18	0.349	390.18	1957	mur	van	0	-3.1	-3
2-ethoxyethanol	C4H10O2	water	H2O	0.161	371.32	1956	bou	kuc	0	3.7	2.3
1-butanamine	C4H11N	piperidine	C5H11N	0.324	343.15	2000	bel	bel	0	-0.7	-0.3
2-methyl-2-propanamine	C4H11N	hexane	C6H14	0.486	323.15	1995	wol	lan	0	9.2	6.4
1-butanamine	C4H11N	hexane	C6H14	0.289	283.15	1995	wol	lan	0	6.1	2.3
diethylamine	C4H11N	hexane	C6H14	0.593	313.14	1985	wol	sch	0	4.9	3.1
N-deuterodiethylamine	C4H11N	hexane	C6H14	0.561	333.13	1985	wol	sch	0	5.2	3.2
diethylamine	C4H11N	triethylamine	C6H15N	0.7	323.13	1962	bit	kau	0	1.2	1.1
2-amino-2-methyl-1-propanol	C4H11NO	water	H2O	0.251	377.75	2006	pap	ana	0	11.9	10.2
bis(2-hydroxyethyl)amine	C4H11NO2	water	H2O	0.271	365.15	2002	hor	mou	0	17.2	14.2
1,4-butanediamine	C4H12N2	water	H2O	0.498	363.15	2011	ahm	neg	0	50.2	42.3
tetramethylsilane	C4H12Si	2,2-dimethylpropane	C5H12	0.242	263.2	1970	hoe	kre	0	0.5	0.5
2-furaldehyde	C5H4O2	2-methylfuran	C5H6O	0.185	298.74	1946	hol	hix	0	-6.5	-6.5
2-furaldehyde	C5H4O2	4-methyl-2-pentanone	C6H12O	0.856	368.07	1987	hau	wu	0	-6.2	-6.3
2-furaldehyde	C5H4O2	toluene	C7H8	0.411	361.03	1973	riv		0	-7.3	-7.2
2-furaldehyde	C5H4O2	toluene	C7H8	0.701	357.83	1973	riv		1	-13.8	-13.7
2-furaldehyde	C5H4O2	water	H2O	0.949	323.14	1970	kha	per	0	14.1	46.1
pyridine	C5H5N	benzene	C6H6	0.031	298.14	1970	kor	sha	0	-0.7	-0.7
pyridine	C5H5N	3-methylpyridine	C6H7N	0.36	402.42	1978	byk	gus	0	-4.8	-4.8
pyridine	C5H5N	cyclohexane	C6H12	0.284	308.14	1973	ani	kon	0	-2.7	-2.3
pyridine	C5H5N	toluene	C7H8	0.705	303.14	1973	ani	kon	0	-3.6	-3.6
pyridine	C5H5N	toluene	C7H8	0.756	333.13	1988	jos	mic	0	-2.6	-2.6

pyridine	C5H5N	heptane	C7H16	0.438	353.12	1963	mac		1	-4.6	-4
pyridine	C5H5N	octane	C8H18	0.437	353.12	1963	mac	zie	1	-5.4	-4.8
pyridine	C5H5N	2,2,4-trimethylpentane	C8H18	0.503	298.14	1973	ani	kon	0	-14.1	-13.5
pyridine	C5H5N	water	H2O	0.041	324.43	1952	fow		0	9	13.5
pyridine	C5H5N	water	H2O	0.216	321.93	1965	woy	kur	0	8.9	14.2
pyridine	C5H5N	water	H2O	0.852	378.8	1998	dha	raj	0	6.2	19.7
3-methylthiophene	C5H6S	hexane	C6H14	0.73	333.15	2010	sap	uus	0	-5.3	-4.8
3-methylthiophene	C5H6S	toluene	C7H8	0.805	387.21	2012	guo	bai	0	-1.1	-1.1
2-methyl-1,3-butadiene	C5H8	2-methyl-1-butene	C5H10	0.3	310.92	1981	sha	how	0	0	0.1
2-methyl-1,3-butadiene	C5H8	pentane	C5H12	0.798	313.13	1985	how	swi	1	3.1	3.2
cyclopentanone	C5H8O	3-methyl-1-butanol	C5H12O	0.605	402.17	1992	kat	mar	1	-6.6	-0.4
methyl methacrylate	C5H8O2	cyclohexane	C6H12	0.855	318.11	1984	hul	lu	0	4.4	4.3
N-methyl-2-pyrrolidone	C5H9NO	benzene	C6H6	0.955	350	1996	lin	wic	1	-26.2	-27
N-methyl-2-pyrrolidone	C5H9NO	cyclohexane	C6H12	0.66	333.23	1985	gie	rog	0	-48.5	-48.2
N-methyl-2-pyrrolidone	C5H9NO	toluene	C7H8	0.382	383.32	1985	gie	rog	0	-12	-12.2
N-methyl-2-pyrrolidone	C5H9NO	heptane	C7H16	0.024	298.14	1987	gau	kre	0	-0.7	-0.7
N-methyl-2-pyrrolidone	C5H9NO	water	H2O	0.043	380.24	1996	nol	fis	0	0.9	1
N-formylmorpholine	C5H9NO2	heptane	C7H16	0.358	343.15	2013	moo	nai	0	0.5	1.1
tetrahydropyran	C5H10O	piperidine	C5H11N	0.06	323.15	1992	ait	bel	0	-1.7	-1.7
pentanal	C5H10O	benzene	C6H6	0.143	313.14	1986	kas	kna	1	-1.3	-1.3
tetrahydropyran	C5H10O	aniline	C6H7N	0.248	308.15	2010	jan	yad	0	-57.2	16.3
2-methyltetrahydrofuran	C5H10O	cyclohexane	C6H12	0.86	310.95	1999	hor	gar	0	-1.4	-1.4
3-methyl-2-butanone	C5H10O	2,3-dimethylbutane	C6H14	0.792	333.15	2013	pav	and	0	-14.4	-14.2
3-pentanone	C5H10O	hexane	C6H14	0.18	325.14	1979	bar	dia	0	10.7	10.8
3-methyl-2-butanone	C5H10O	2-methylpentane	C6H14	0.393	330	2005	psu	wic	1	-8.5	-8.3
tetrahydropyran	C5H10O	hexane	C6H14	0.074	333.13	2012	mej	seg	1	-0.6	-0.6
2-methylpropyl methanoate	C5H10O2	butyl methanoate	C5H10O2	0.374	375.2	1985	ses	mir	0	-2.8	-2.8
propyl ethanoate	C5H10O2	benzene	C6H6	0.605	365.23	1972	fah	elg	0	-1.7	-1.7
propyl ethanoate	C5H10O2	2-hexyne	C6H10	0.328	363.15	2010	neg	kac	0	-2.2	-2.3
1-methylethyl ethanoate	C5H10O2	cyclohexane	C6H12	0.149	348.14	1994	kri	vis	0	1.4	1.5
propyl ethanoate	C5H10O2	cyclohexane	C6H12	0.644	293.15	2007	neg	bel	0	-0.7	-0.7

propyl ethanoate	C5H10O2	1-hexene	C6H12	0.668	303.15	2007	neg	bel	0	-2.8	-2.9
propyl ethanoate	C5H10O2	heptane	C7H16	0.988	373.72	2001	ort	gon	0	-0.7	-0.7
methyl butanoate	C5H10O2	heptane	C7H16	0.876	371.35	2012	rio	ort	0	0.1	0.1
furfuryl alcohol, tetrahydro-	C5H10O2	water	H2O	0.173	326.34	1971	tsi	vas	1	4.3	2.9
diethyl carbonate	C5H10O3	1,1-dimethylethyl methyl ether	C5H12O	0.555	298.15	1997	fra	com	2	-4.4	-4.5
1-chloropentane	C5H11Cl	hexane	C6H14	0.821	288.15	2009	per	gin	0	-4.4	-4
piperidine	C5H11N	N-propyl-1-propanamine	C6H15N	0.562	333.15	2000	bel	bel	0	-2	-2.2
N-methylmorpholine	C5H11NO	water	H2O	0.349	333.15	2009	bel	raz	0	8.5	15.4
pentane	C5H12	benzene	C6H6	0.161	308.14	1971	wan	lu	0	0.2	1.1
2,2-dimethylpropane	C5H12	benzene	C6H6	0.114	273.2	1953	mat	des	0	-26.4	-24.7
pentane	C5H12	methylcyclopentane	C6H12	0.874	311.88	1957	mye		1	-0.3	-0.3
pentane	C5H12	hexane	C6H14	0.668	298.14	1974	che	zwo	0	1.4	1.4
pentane	C5H12	toluene	C7H8	0.14	303.34	1972	li	won	0	-3.1	-2.3
2-methyl-2-butanol	C5H12O	2-methyl-1-butanol	C5H12O	0.126	373.15	1994	auc	bur	2	-1.7	-1.8
2-methyl-2-butanol	C5H12O	benzene	C6H6	0.802	313.15	2001	rho	gri	0	-15.6	-13.8
1-pentanol	C5H12O	aniline	C6H7N	0.407	373.12	1974	sur	doj	0	-27	-33.9
1,1-dimethylethyl methyl ether	C5H12O	2-hexyne	C6H10	0.572	273.34	2006	bou	bel	0	-2	-2
1-pentanol	C5H12O	cyclohexane	C6H12	0.6	328.24	1973	min	rue	0	4.6	4.8
1,1-dimethylethyl methyl ether	C5H12O	cyclohexane	C6H12	0.401	308.15	2001	del	hor	0	0.3	0.3
2-pentanol	C5H12O	cyclohexane	C6H12	0.466	353.15	2009	gie	kos	0	-2.2	-1.7
1,1-dimethylethyl methyl ether	C5H12O	1-hexene	C6H12	0.149	313.15	1998	seg	mar	2	-0.6	-0.6
butyl methyl ether	C5H12O	1-hexene	C6H12	0.802	303.15	2012	han	sol	0	-5.5	-5.5
2-methyl-2-butanol	C5H12O	hexane	C6H14	0.981	338.15	2010	gie	kos	1	-5.3	-5.4
1,1-dimethylethyl methyl ether	C5H12O	hexane	C6H14	0.82	328	1979	plu	mat	0	0.9	0.9
1,1-dimethylethyl methyl ether	C5H12O	1-hexanol	C6H14O	0.781	318.15	2003	jim	seg	0	-4.2	-1.2
1-pentanol	C5H12O	toluene	C7H8	0.25	363.13	1971	sad	luf	0	0	1.6
1-pentanol	C5H12O	methylcyclohexane	C7H14	0.437	313.14	1980	ora		0	-7.9	-7.6
1,1-dimethylethyl methyl ether	C5H12O	1-heptene	C7H14	0.99	311.15	1993	ben	lam	0	2.6	2.6
1-pentanol	C5H12O	heptane	C7H16	0.848	363.25	1979	tre	tre	0	-4.8	-4.3
3-methyl-1-butanol	C5H12O	heptane	C7H16	0.077	358.13	1988	mac	lin	0	-1.1	-0.5

2-methyl-1-butanol	C5H12O	heptane	C7H16	0.569	358.15	1991	wol	lin	0	-8.9	-8.1
1,1-dimethylethyl methyl ether	C5H12O	heptane	C7H16	0.43	298.15	1997	moe	cot	0	4.5	4.6
3-pentanol	C5H12O	heptane	C7H16	0.187	368.15	1990	wol	lin	0	0.9	1.7
3-methyl-2-butanol	C5H12O	heptane	C7H16	0.5	313.15	1997	rho	bhe	0	-6	-5.7
1-pentanol	C5H12O	1,4-dimethylbenzene	C8H10	0.883	408.24	1967	gal		3	-0.9	-0.1
1-pentanol	C5H12O	2,2,4-trimethylpentane	C8H18	0.148	313.15	2013	mor	mar	0	-2.6	-2.1
1,1-dimethylethyl methyl ether	C5H12O	2,2,4-trimethylpentane	C8H18	0.317	339.28	2001	ber	wic	0	6	6.1
2-methyl-2-butanol	C5H12O	water	H2O	0.415	283.3	1996	fis	shu	0	9.2	4.4
2-methyl-2-butanol	C5H12O	water	H2O	0.488	343.25	1996	fis	shu	0	5.2	1.2
N-methyldiethanolamine	C5H13NO2	water	H2O	0.444	333.8	2010	del	uus	1	22.8	13.2
bromobenzene	C6H5Br	nitrobenzene	C6H5NO2	0.532	440.91	1985	red	rao	3	-2.8	-3.5
chlorobenzene	C6H5Cl	benzene	C6H6	0.078	356.45	2001	rol	kra	0	3.3	3.3
chlorobenzene	C6H5Cl	aniline	C6H7N	0.388	298.14	1967	des	pan	0	13.6	7.1
chlorobenzene	C6H5Cl	cyclohexane	C6H12	0.346	363.23	1976	rao	rao	1	2.7	2.9
chlorobenzene	C6H5Cl	toluene	C7H8	0.215	303.14	1972	kho	mah	1	-1.6	-1.6
chlorobenzene	C6H5Cl	methylcyclohexane	C7H14	0.932	348.13	1980	dia	cre	0	0.5	0.7
chlorobenzene	C6H5Cl	heptane	C7H16	0.752	353.13	1971	let	bay	0	-2.1	-1.6
chlorobenzene	C6H5Cl	ethylbenzene	C8H10	0.599	293.15	1979	mah	smi	0	-1.5	-1.6
fluorobenzene	C6H5F	cyclohexane	C6H12	0.544	348.13	1980	dia	com	1	-0.2	0.2
fluorobenzene	C6H5F	toluene	C7H8	0.891	333.36	1968	bha	muk	0	-0.1	-0.1
fluorobenzene	C6H5F	methylcyclohexane	C7H14	0.462	333.17	1968	bha	muk	0	0.6	1
nitrobenzene	C6H5NO2	aniline	C6H7N	0.05	342.82	1955	hol	rig	0	0.6	1.2
nitrobenzene	C6H5NO2	1-heptanol	C7H16O	0.479	450.15	2013	mam	tas	0	-16.4	-13
benzene	C6H6	cyclohexane	C6H12	0.899	352.14	1950	sie		0	2.2	2.4
benzene	C6H6	cyclohexane	C6H12	0.101	318.13	1966	mad	mur	0	-42.6	-42.2
benzene	C6H6	cyclohexane	C6H12	0.265	295.51	1973	li	lu	0	2.3	2.8
benzene	C6H6	cyclohexane	C6H12	0.663	254.63	1974	jac		2	2.3	2.9
benzene	C6H6	cyclohexane	C6H12	0.623	313.09	1982	men	gre	0	4.2	4.7
benzene	C6H6	cyclohexane	C6H12	0.276	343.13	1995	lee	hu	0	2.6	3
benzene	C6H6	cyclohexane	C6H12	0.579	350.6	2001	rol	kra	0	4	4.4
benzene	C6H6	cyclohexane	C6H12	0.498	343.03	2007	uno	kur	0	4.1	4.5

benzene	C6H6	1-hexene	C6H12	0.298	312.35	2002	cha	seg	2	-4.6	-4.4
benzene	C6H6	methylcyclopentane	C6H12	0.699	347.74	1962	sus	lyz	0	3.6	4
benzene	C6H6	2-methylpentane	C6H14	0.675	303.14	1972	fun	cha	0	-3.3	-2.6
benzene	C6H6	hexane	C6H14	0.61	344.67	1955	mye		0	2.3	2.8
benzene	C6H6	hexane	C6H14	0.294	328.23	1963	ho	lu	0	1.1	1.5
benzene	C6H6	hexane	C6H14	0.846	303.14	1972	li	won	0	1.4	2
benzene	C6H6	hexane	C6H14	0.256	298.14	1975	mur	mar	0	1.3	1.7
benzene	C6H6	hexane	C6H14	0.138	298.12	1999	wu	li	0	1	1.3
benzene	C6H6	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.298	313.15	2006	vil	mar	0	-4.4	-4.2
benzene	C6H6	dipropyl ether	C6H14O	0.478	333.13	1972	lin	wic	0	-0.4	-0.1
benzene	C6H6	benzonitrile	C7H5N	0.586	323.15	1999	hor	gar	2	-3.9	-3.9
benzene	C6H6	toluene	C7H8	0.9	333.12	1926	sch		0	-2.7	-2.7
benzene	C6H6	toluene	C7H8	0.719	359.65	1993	jin	hu	1	0.7	0.7
benzene	C6H6	methoxybenzene	C7H8O	0.914	342.75	1995	vis	rao	2	0.1	0.1
benzene	C6H6	methylcyclohexane	C7H14	0.938	313.14	1980	asm	gor	0	0.8	0.9
benzene	C6H6	2,4-dimethylpentane	C7H16	0.631	349.92	1962	ste	van	0	0.3	0.8
benzene	C6H6	heptane	C7H16	0.299	362.22	1950	sie		0	3.7	4.2
benzene	C6H6	heptane	C7H16	0.9	312.93	1959	nie	web	0	0.5	0.7
benzene	C6H6	heptane	C7H16	0.21	328.14	1971	kud	vii	0	-0.3	0.3
benzene	C6H6	heptane	C7H16	0.1	359.93	1975	tri	ass	0	2.1	2.4
benzene	C6H6	heptane	C7H16	0.299	313.15	2002	cha	seg	1	3.3	3.9
benzene	C6H6	2,3-dimethylpentane	C7H16	0.373	355.92	1960	kyl	tet	0	2	2.4
benzene	C6H6	octane	C8H18	0.078	313.15	1994	gor		0	5.9	6.6
phenol	C6H6O	2-methylphenol	C7H8O	0.821	457.05	1917	fox	bar	0	2.1	2.1
phenol	C6H6O	4-methylphenol	C7H8O	0.118	428.35	1992	sel	dut	0	2.1	2.1
phenol	C6H6O	3-methylphenol	C7H8O	0.049	409.42	1989	cep	gon	0	-2.6	-2.6
aniline	C6H7N	cyclohexane	C6H12	0.061	323.34	1968	abe	ser	0	1.3	0.7
aniline	C6H7N	hexane	C6H14	0.946	338.13	1968	cam	kar	0	-28.4	-32.5
2-methylpyridine	C6H7N	toluene	C7H8	0.492	313.15	1993	war		0	-2.4	-2.4
aniline	C6H7N	3-methylphenol	C7H8O	0.596	437.81	1985	kre	mai	0	3	-1.4

aniline	C6H7N	benzene, ethenyl-	C8H8	0.652	363.13	1985	gme		0	3.3	-3.2
aniline	C6H7N	2,2,4-trimethylpentane	C8H18	0.587	353.16	1958	zie		1	2.3	-1.4
4-methylpyridine	C6H7N	water	H2O	0.06	370.48	1958	zie	mac	1	5.8	8.4
2-methylpyridine	C6H7N	water	H2O	0.039	368.02	1953	vri	med	0	12.2	16.1
cyclohexene	C6H10	cyclohexane	C6H12	0.79	355.5	2004	ste	sun	0	1.1	1.1
3-hexyne	C6H10	octane	C8H18	0.764	298.15	2000	bou	bel	0	0.6	0.7
cyclohexanone	C6H10O	cyclohexanol	C6H12O	0.804	338.57	1963	eng	bit	0	1.9	5.2
cyclohexanone	C6H10O	cyclohexanol	C6H12O	0.74	323.15	2008	abb	gme	0	-8.6	-4
cyclohexanone	C6H10O	water	H2O	0.01	363.12	1959	gor	mor	0	-7.8	-6.5
1-aza-2-cycloheptanone	C6H11NO	water	H2O	0.137	308.19	1969	sus	ard	0	4.1	2.7
methylcyclopentane	C6H12	cyclohexane	C6H12	0.477	349.3	1970	wea	van	0	0.3	0.3
cyclohexane	C6H12	4-methyl-2-pentanone	C6H12O	0.963	353.6	2010	mar	lor	1	-0.9	-0.8
cyclohexane	C6H12	butyl ethanoate	C6H12O2	0.058	354.85	2012	li	li	0	4.8	4.8
cyclohexane	C6H12	cyclohexaneamine	C6H13N	0.707	313.14	1968	ker	ser	0	8.5	5.5
cyclohexane	C6H12	1H-azepine, hexahydro-	C6H13N	0.04	298.14	1973	cab	cec	0	7.8	6
cyclohexane	C6H12	hexane	C6H14	0.409	346.02	1967	rid	but	0	-0.3	-0.3
cyclohexane	C6H12	hexane	C6H14	0.203	293.15	2000	gor	ora	0	-1.4	-1.4
1-hexene	C6H12	hexane	C6H14	0.069	325.6	2009	mar	auc	0	0.3	0.3
cyclohexane	C6H12	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.132	342.55	1995	wis		0	0.5	0.5
1-hexene	C6H12	1-hexanamine	C6H15N	0.11	333.12	1967	hum	van	0	9	1.5
cyclohexane	C6H12	toluene	C7H8	0.81	357.04	1950	sie		0	1.2	1.4
cyclohexane	C6H12	toluene	C7H8	0.309	339.43	1969	riv		0	3.5	3.9
cyclohexane	C6H12	toluene	C7H8	0.666	359.8	1981	cho	pal	0	2.4	2.6
cyclohexane	C6H12	heptane	C7H16	0.22	366.67	1957	mye		1	-1.3	-1.3
cyclohexane	C6H12	heptane	C7H16	0.8	313.15	1995	loz	mon	0	-1	-1
cyclohexane	C6H12	ethylbenzene	C8H10	0.715	323.14	1974	jai	yad	1	-1.4	-1.3
cyclohexane	C6H12	2,2,4-trimethylpentane	C8H18	0.712	308.14	1974	jai	yad	0	-3.3	-3.3
cyclohexanol	C6H12O	butyl ethanoate	C6H12O2	0.3	404.12	1968	nag	men	0	-1.9	2.2
2-hexanone	C6H12O	methoxybenzene	C7H8O	0.218	410.82	2009	kir	kuu	0	-0.7	-0.7
cyclohexanol	C6H12O	1,4-dimethylbenzene	C8H10	0.727	339.13	1988	com	fra	0	-15.4	-13.3

cyclohexanol	C6H12O	1,3-dimethylbenzene	C8H10	0.031	360.6	2002	swi	mal	0	0.6	1.3
4-methyl-2-pentanone	C6H12O	octane	C8H18	0.721	384	1999	wis		0	-4.3	-4.1
4-methyl-2-pentanone	C6H12O	2,2,4-trimethylpentane	C8H18	0.763	333.15	2011	ber	pav	1	-9.3	-9.1
butyl ethanoate	C6H12O2	toluene	C7H8	0.856	395.12	1968	mai	men	0	-0.8	-0.9
ethyl butanoate	C6H12O2	heptane	C7H16	0.459	376.42	2012	rio	ort	0	2.2	2.3
2-methylpropyl ethanoate	C6H12O2	heptane	C7H16	0.282	372.8	1991	mat	bon	0	2.2	2.3
1H-azepine, hexahydro-	C6H13N	1,6-hexanediamine	C6H16N2	0.5	373.12	1965	dei	kog	0	6.4	5.9
2-methylpentane	C6H14	hexane	C6H14	0.899	313.14	1979	ho	dav	0	-0.4	-0.4
hexane	C6H14	1-hexanol	C6H14O	0.806	333.15	1978	wie	ste	0	-1.8	-1.2
hexane	C6H14	methoxybenzene	C7H8O	0.693	333.17	1992	yan	bot	0	-0.2	0
hexane	C6H14	2,6-dimethylpyridine	C7H9N	0.876	263.15	2005	ben	ait	0	-10.5	-10.4
3-methylpentane	C6H14	heptane	C7H16	0.658	328.15	1994	ber	lai	0	0.5	0.5
hexane	C6H14	octane	C8H18	0.125	298.15	1990	she	anx	0	-0.6	-0.6
1,4-dimethylpiperazine	C6H14N2	heptane	C7H16	0.141	273.15	1997	dah	kac	0	0.4	0.5
4-methyl-2-pentanol	C6H14O	toluene	C7H8	0.089	343.13	1974	gop	dak	0	-11.1	-10
1-methyl-1-(1-methylethoxy)ethane	C6H14O	toluene	C7H8	0.642	343.15	2007	did	ait	0	-5	-4.9
1-methyl-1-(1-methylethoxy)ethane	C6H14O	heptane	C7H16	0.449	313.15	2002	cha	seg	0	3	3.1
ethyl 1,1-dimethylethyl ether	C6H14O	heptane	C7H16	0.783	328.15	2001	del	hor	0	1.5	1.5
1-methyl-1-(1-methylethoxy)ethane	C6H14O	1,3-dimethylbenzene	C8H10	0.057	273.15	2007	did	ait	0	-49.1	-48.7
1-methyl-1-(1-methylethoxy)ethane	C6H14O	water	H2O	0.1	335.32	1967	yor	yos	0	45.9	51.3
2-butoxyethanol	C6H14O2	ethylcyclohexane	C8H16	0.064	382.73	1963	pra	van	1	0.4	0.7
triethylamine	C6H15N	water	H2O	0.503	284.14	1907	lat		0	-0.9	4.4
triethylamine	C6H15N	water	H2O	0.043	295.14	1960	kri	kha	1	-29.1	-17.3
benzonitrile	C7H5N	toluene	C7H8	0.987	353.15	1999	hor	gar	2	-4.3	-4.2
benzaldehyde	C7H6O	toluene	C7H8	0.3	372.97	1972	pav	pop	0	4.1	4.1
benzaldehyde	C7H6O	2-methylphenol	C7H8O	0.849	340.13	1980	vos	kom	1	19.7	20.8
2-chlorotoluene	C7H7Cl	4-chlorotoluene	C7H7Cl	0.771	373.15	1992	bar	got	0	-0.3	-0.3
2-chlorotoluene	C7H7Cl	4-chlorotoluene	C7H7Cl	0.798	429.41	2007	uno	kur	0	0.1	0.1
2-chlorotoluene	C7H7Cl	1,2-dimethylbenzene	C8H10	0.69	308.14	1987	dah	sin	0	12.6	12.5

toluene	C7H8	2-methylaniline	C7H9N	0.121	383.12	1985	gme		0	-2.8	-9.8
toluene	C7H8	2,6-dimethylpyridine	C7H9N	0.645	293.15	2006	ben	ait	0	0.5	0.5
toluene	C7H8	methylcyclohexane	C7H14	0.5	333.12	1961	sch		1	3.3	3.6
toluene	C7H8	methylcyclohexane	C7H14	0.778	379.66	1977	tym	kle	0	2.6	2.9
toluene	C7H8	heptane	C7H16	0.301	298.14	1965	kat	sun	0	-3.1	-2.7
toluene	C7H8	heptane	C7H16	0.773	303.14	1979	ash	cla	0	0.6	1
toluene	C7H8	heptane	C7H16	0.333	313.15	1994	gor		0	1.9	2.2
toluene	C7H8	octane	C8H18	0.764	363.82	1949	ber	pop	0	0.7	0.9
toluene	C7H8	octane	C8H18	0.699	344.59	1977	mih	kir	0	2	2.3
toluene	C7H8	2,2,4-trimethylpentane	C8H18	0.931	313.15	1993	gor	asm	0	-1.5	-1.3
2,6-dimethylpyridine	C7H9N	heptane	C7H16	0.71	353.15	2002	hak	ait	0	1	1.3
2,4-dimethylpyridine	C7H9N	1,2-dimethylbenzene	C8H10	0.45	373.12	1985	rog		1	-1.4	-1.4
2,6-dimethylpyridine	C7H9N	octane	C8H18	0.94	283.15	2005	ben	ait	0	-14	-13.8
3,5-dimethylpyridine	C7H9N	octane	C8H18	0.812	323.15	2005	ben	ait	0	-20	-19.4
benzylamine	C7H9N	water	H2O	0.102	323.15	2011	bel	mok	0	6.9	5.9
2,6-dimethylpyridine	C7H9N	water	H2O	0.776	298.14	1978	abe	nak	0	10.4	26.3
methylcyclohexane	C7H14	heptane	C7H16	0.286	323.15	1997	dah	wic	0	-0.2	-0.2
methylcyclohexane	C7H14	ethylbenzene	C8H10	0.676	353.13	1972	fun	cha	0	1	1.2
methylcyclohexane	C7H14	1,4-dimethylbenzene	C8H10	0.512	313.14	1980	asm	gor	0	2.7	2.9
heptane	C7H16	1,2-dimethylbenzene	C8H10	0.506	348.13	1980	dia	com	0	-0.2	0.1
heptane	C7H16	ethylbenzene	C8H10	0.784	313.09	1982	men	gre	0	0.3	0.4
heptane	C7H16	1,4-dimethylbenzene	C8H10	0.066	348.13	1980	dia	com	0	0.8	1.1
2,4-dimethylpentane	C7H16	octane	C8H18	0.684	293.15	1981	liu	dav	0	-2.2	-2.2
heptane	C7H16	octane	C8H18	0.641	328.15	1993	han	yan	0	-0.2	-0.2
benzene, ethenyl-	C8H8	1,2-dimethylbenzene	C8H10	0.256	357.56	2006	auc	lor	0	0.4	0.4
benzene, ethenyl-	C8H8	ethylbenzene	C8H10	0.829	356.67	2006	auc	lor	0	-0.1	0
benzene, ethenyl-	C8H8	1,4-dimethylbenzene	C8H10	0.693	329.88	2006	auc	lor	0	-0.5	-0.5
ethylbenzene	C8H10	1,4-dimethylbenzene	C8H10	0.633	409.8	1985	chi	mar	0	-0.8	-0.8
ethylbenzene	C8H10	1,3-dimethylbenzene	C8H10	0.218	332.45	1994	mon	llo	0	-1.5	-1.5
1,4-dimethylbenzene	C8H10	1,3-dimethylbenzene	C8H10	0.6	411.76	1971	kat	sat	0	0.3	0.3
ethylbenzene	C8H10	octane	C8H18	0.794	390.63	1955	yan	van	0	1.7	1.9

1,4-dimethylbenzene	C8H10	octane	C8H18	0.715	313.15	1994	gor		0	2.8	3.1
1-octene	C8H16	octane	C8H18	0.105	356.21	1980	kuu	too	0	0.2	0.2
hydrogen	H2	deuterium	H2	0.398	17.77	1974	ber	bog	0	-7.8	-7.8
water	H2O	hydrogen peroxide	H2O2	0.719	333.12	1952	sca	kav	0	4.3	4.1
water	H2O	hydrazine	H4N2	0.026	378.33	1952	bur		0	1.5	-0.4
nitrogen	N2	oxygen	O2	0.745	65.05	1955	arm	gol	0	-1.9	-1.8
oxygen	O2	ozone	O3	0.944	77.55	1955	jen	dip	0	3.1	2.7

[a] Experimental data extracted from SOURCE Data Archival System; [b] Sorted according to Hill notation

Table S2. Deviations of excess enthalpies at temperature T, pressure P, and mole fraction of the first component x_1 calculated with Model I (Δ_I) and Model II (Δ_{II}) from the experimental values [a]

Component 1 [b]		Component 2 [b]		x_1	T / K	P / kPa	Reference code			Δ_I / kJ·mol^{-1}	Δ_{II} / kJ·mol^{-1}
Name	Formula	Name	Formula								
tetrachloromethane	CCl4	acetonitrile	C2H3N	0.214	298.15	101	2010	mar	por	0	0.12	0.10
tetrachloromethane	CCl4	ethanal	C2H4O	0.513	298.14	101	1985	mar		6	-0.03	-0.02
tetrachloromethane	CCl4	dimethyl sulfoxide	C2H6OS	0.650	298.14	101	1969	qui	pri	1	-0.06	-0.06
tetrachloromethane	CCl4	2-thiapropane	C2H6S	0.712	288.15	101	1975	gra	wil	0	0.49	0.50
tetrachloromethane	CCl4	1,4-dioxane	C4H8O2	0.700	298.14	101	1975	tan	dar	0	0.13	0.15
tetrachloromethane	CCl4	N-formylmorpholine	C5H9NO2	0.643	298.15	101	1990	gau	ste	0	0.08	0.09
tetrachloromethane	CCl4	cyclopentane	C5H10	0.326	308.14	101	1970	ewi	mar	4	-0.03	-0.03
tetrachloromethane	CCl4	2-pentanone	C5H10O	0.800	298.14	101	1977	kiy	ben	1	-0.07	-0.06
tetrachloromethane	CCl4	diethyl carbonate	C5H10O3	0.438	298.14	101	1987	gar	cob	0	0.08	0.09
tetrachloromethane	CCl4	benzene	C6H6	0.627	298.14	101	1966	mur	fuj	1	0.20	0.21
tetrachloromethane	CCl4	benzene	C6H6	0.500	298.14	101	1972	reh	bit	0	0.21	0.23
tetrachloromethane	CCl4	1-hexene	C6H12	0.559	298.14	101	1976	kar	gro	0	-0.15	-0.15
tetrachloromethane	CCl4	methylcyclopentane	C6H12	0.553	288.00	101	1981	fan	cen	0	-0.11	-0.11
tetrachloromethane	CCl4	1-heptyne	C7H12	0.400	298.14	101	1979	woy	rhe	0	0.12	0.13

tetrachloromethane	CCl4	octane	C8H18	0.205	293.15	101	1974	har	tho	0	-0.17	-0.17
tribromomethane	CHBr3	tetrahydrofuran	C4H8O	0.263	298.14	101	1987	bec	hal	0	0.26	0.23
trichloromethane	CHCl3	ethanol	C2H6O	0.485	303.14	101	1975	sha	abb	0	-0.60	-0.66
trichloromethane	CHCl3	acetone	C3H6O	0.136	298.14	101	1981	nag	tam	0	-0.11	-0.12
trichloromethane	CHCl3	tetrahydrofuran	C4H8O	0.375	298.14	101	1971	bec	kie	0	0.36	0.31
trichloromethane	CHCl3	tetrahydrothiophene	C4H8S	0.502	298.14	101	1977	wag	mal	0	0.40	0.36
trichloromethane	CHCl3	benzene	C6H6	0.337	297.99	101	1971	ras	nat	0	0.14	0.14
trichloromethane	CHCl3	1-formylpiperidine	C6H11NO	0.992	298.15	101	1990	gau	ste	0	-0.08	-0.08
trichloromethane	CHCl3	heptane	C7H16	0.208	303.11	101	1975	sha	abb	0	-0.23	-0.23
trichloromethane	CHCl3	1,2-dimethylbenzene	C8H10	0.457	298.14	101	1973	abe		0	0.59	0.58
dibromomethane	CH2Br2	benzene	C6H6	0.951	308.14	101	1984	sin	nig	1	-0.03	-0.04
dichloromethane	CH2Cl2	acetone	C3H6O	0.072	303.13	101	1966	win	van	0	-0.13	-0.14
dichloromethane	CH2Cl2	methyl ethanoate	C3H6O2	0.362	303.13	101	1966	win	van	0	-0.56	-0.59
dichloromethane	CH2Cl2	1,4-dioxane	C4H8O2	0.997	303.14	101	1974	van	abb	0	-0.01	-0.01
methanoic acid	CH2O2	benzene	C6H6	0.995	300.04	101	1973	lak	kap	0	-0.01	-0.02
iodomethane	CH3I	hexane	C6H14	0.358	303.14	101	1987	mun	oti	0	-0.30	-0.28
formamide	CH3NO	1-hexanol	C6H14O	0.191	298.15	101	2003	zar	ilo	0	-0.62	-1.54
nitromethane	CH3NO2	1-butanol	C4H10O	0.297	298.15	101	1990	bat	row	0	-0.74	-0.84
nitromethane	CH3NO2	1,4-dimethylbenzene	C8H10	0.296	298.14	101	1985	mar		9	-2.85	-2.92
methanol	CH4O	acetone	C3H6O	0.400	298.15	101	1994	nag		4	-0.56	-0.38
methanol	CH4O	dimethylformamide	C3H7NO	0.718	298.14	101	1989	cha	dai	2	-0.14	0.15
methanol	CH4O	tetrahydrofuran	C4H8O	0.072	298.14	101	1966	arm	ban	0	-0.26	-0.17
methanol	CH4O	N-methyl-2-pyrrolidone	C5H9NO	0.172	298.15	101	1999	lop	gar	0	0.17	0.38
methanol	CH4O	1,3-dichlorobenzene	C6H4Cl2	0.174	298.15	101	1993	let	nev	0	-0.39	-0.49
methanol	CH4O	benzene	C6H6	0.952	298.14	101	1969	coc		0	-0.05	-0.06
methanol	CH4O	benzene	C6H6	0.676	298.14	101	1969	ves	pic	0	-0.28	-0.35
methanol	CH4O	cyclohexane	C6H12	0.920	298.15	101	1998	fri	sch	0	-0.15	-0.17
methanol	CH4O	cyclohexane	C6H12	0.659	323.14	101	1985	dai	cha	1	-0.54	-0.61
methanol	CH4O	2,6-dimethylpyridine	C7H9N	0.818	298.14	101	1985	tou	nak	0	0.97	1.11
methanol	CH4O	ethylbenzene	C8H10	0.326	308.13	101	1961	mra	van	0	-0.47	-0.59

methanol	CH4O	water	H2O	0.597	293.14	101	1962	kat		1	0.35	0.21
tetrachloroethene	C2Cl4	2-methoxyethanol	C3H8O2	0.965	298.15	101	1994	ven	pra	0	-0.26	-0.28
tetrachloroethene	C2Cl4	1,3-dimethylbenzene	C8H10	0.550	298.14	101	1980	han	ben	1	0.05	0.05
trichloroethene	C2HCl3	1-hexanol	C6H14O	0.456	298.15	101	1997	ilo		0	0.09	0.04
1,1,2,2-tetrachloroethane	C2H2Cl4	ethyl butanoate	C6H12O2	0.177	298.15	101	1991	ort		2	-0.35	-0.37
1,1,1-trichloroethane	C2H3Cl3	dimethylformamide	C3H7NO	0.355	298.15	101	2000	ven	ram	0	-0.56	-0.56
1,1,1-trichloroethane	C2H3Cl3	1,4-dioxane	C4H8O2	0.609	298.15	101	1992	sur	kri	0	-0.64	-0.64
1,1,1-trichloroethane	C2H3Cl3	cyclohexane	C6H12	0.463	298.14	101	1984	chr	gme	1	-0.04	-0.03
2,2,2-trifluoroethanol	C2H3F3O	tetrahydropyran	C5H10O	0.935	283.15	101	2003	per	mai	0	-0.05	0.03
acetonitrile	C2H3N	1-butanol	C4H10O	0.894	298.14	101	1966	mur	fuj	0	-0.46	-0.38
acetonitrile	C2H3N	hexane	C6H14	0.005	298.14	101	1981	lak	man	1	-0.03	-0.02
acetonitrile	C2H3N	toluene	C7H8	0.702	321.34	101	1984	chr	gme	1	-0.03	-0.06
acetonitrile	C2H3N	1-heptanol	C7H16O	0.299	298.15	101	2008	che	dag	0	-0.73	-0.63
1,2-dibromoethane	C2H4Br2	cyclohexane	C6H12	0.421	298.14	101	1976	mah	kon	0	0.03	0.03
1,2-dichloroethane	C2H4Cl2	cyclohexane	C6H12	0.058	308.14	101	1983	ban	val	0	0.03	0.04
1,2-dichloroethane	C2H4Cl2	2-heptanone	C7H14O	0.396	298.15	101	1990	kec	dub	0	0.12	0.10
1,2-dichloroethane	C2H4Cl2	heptane	C7H16	0.391	303.15	101	1990	cha	kat	0	-0.10	-0.09
ethanoic acid	C2H4O2	1,3-dioxacyclopentane	C3H6O2	0.169	298.14	101	1989	com	fra	0	-0.52	-0.47
ethanoic acid	C2H4O2	pyridine	C5H5N	0.959	298.14	101	1972	abr	mir	0	0.91	0.92
nitroethane	C2H5NO2	benzene	C6H6	0.312	298.14	101	1978	cle	hsu	0	0.08	0.02
nitroethane	C2H5NO2	cyclohexane	C6H12	0.238	297.15	101	1989	mar	rog	0	0.12	0.10
ethanol	C2H6O	dimethyl sulfoxide	C2H6OS	0.151	298.14	101	1989	cha	dai	2	-0.59	-0.38
ethanol	C2H6O	1,2-ethanediol	C2H6O2	0.350	308.15	101	1999	kra	ulb	1	-0.32	-0.32
ethanol	C2H6O	dimethylformamide	C3H7NO	0.737	298.14	101	1989	cha	dai	2	-0.68	-0.42
ethanol	C2H6O	butanone	C4H8O	0.613	308.14	101	1976	nag	oht	1	-0.97	-0.81
ethanol	C2H6O	1,2-butanediol	C4H10O2	0.450	323.15	101	1999	kra	ulb	1	-0.25	-0.25
ethanol	C2H6O	2,4-pentanedione	C5H8O2	0.452	298.15	100	2008	li	yan	0	-0.91	-0.76
ethanol	C2H6O	tetrahydropyran	C5H10O	0.373	298.15	101	1995	let	gov	1	-1.07	-0.85
ethanol	C2H6O	1-pentanol	C5H12O	0.959	298.14	101	1968	ram	rue	0	-0.01	-0.01
ethanol	C2H6O	1,3-dichlorobenzene	C6H4Cl2	0.341	298.15	101	1993	let	nev	0	-0.61	-0.71

ethanol	C2H6O	cyclohexane	C6H12	0.499	293.14	101	1966	kle		1	-0.04	-0.10
ethanol	C2H6O	2,2-dimethylbutane	C6H14	0.111	298.14	101	1985	per	gra	0	-0.08	-0.14
ethanol	C2H6O	1,4-dimethylbenzene	C8H10	0.970	318.14	0	1980	sto	fre	0	-0.05	-0.06
ethanol	C2H6O	water	H2O	0.104	293.15	101	1970	kha	byv	0	0.69	0.62
dimethyl sulfoxide	C2H6OS	dimethylformamide	C3H7NO	0.025	298.15	101	1993	nak	chu	1	-0.02	-0.02
dimethyl sulfoxide	C2H6OS	1,4-dimethylbenzene	C8H10	0.827	312.99	101	1983	nis	kai	0	-0.75	-0.77
dimethyl sulfoxide	C2H6OS	1-octyne	C8H14	0.303	298.15	101	1999	let	whi	0	-0.71	-0.75
dimethyl sulfoxide	C2H6OS	water	H2O	0.250	298.15	101	1997	miy	nak	0	0.16	0.66
1,2-ethanediol	C2H6O2	N-methylacetamide	C3H7NO	0.580	413.15	101	1997	deh	fis	0	-0.02	-0.80
1,2-ethanediol	C2H6O2	1-butanol	C4H10O	0.677	298.14	101	1979	jim	paz	0	-0.56	-0.57
1,2-ethanediol	C2H6O2	water	H2O	0.550	285.65	101	1999	kra	ulb	0	0.24	0.09
2,3-dithiabutane	C2H6S2	cyclohexane	C6H12	0.379	298.15	101	1994	mar	mar	0	-0.08	-0.07
N,N-dimethylhydrazine	C2H8N2	water	H2O	0.615	278.15	101	1993	fer	laa	0	3.28	2.33
1-propanol, 2,2,3,3-tetrafluoro-	C3H4F4O	benzene	C6H6	0.424	298.14	101	1966	bra	oni	0	-1.60	-1.67
1-chloro-2,3-epoxypropane	C3H5ClO	heptane	C7H16	0.911	298.14	101	1986	kra	koc	0	-0.17	-0.17
propanenitrile	C3H5N	benzene	C6H6	0.136	298.15	101	2010	mar	por	0	-0.04	-0.05
propanenitrile	C3H5N	ethyl 1,1-dimethylethyl ether	C6H14O	0.801	298.44	101	2013	laa	pok	0	-0.03	-0.04
1,2-dibromopropane	C3H6Br2	benzene	C6H6	0.723	298.14	101	1987	rui	roy	0	-0.13	-0.13
1,3-dibromopropane	C3H6Br2	heptane	C7H16	0.681	298.15	101	1993	ort	pla	2	-0.22	-0.21
1,3-dichloropropane	C3H6Cl2	ethyl methanoate	C3H6O2	0.846	298.15	101	2002	ort		0	-0.11	-0.11
1,3-dichloropropane	C3H6Cl2	butyl methanoate	C5H10O2	0.313	298.15	101	2007	ort	mar	0	0.30	0.30
1,3-dichloropropane	C3H6Cl2	diethyl carbonate	C5H10O3	0.939	298.15	101	1995	com	fra	1	-0.02	-0.02
acetone	C3H6O	1-propanol	C3H8O	0.799	303.15	101	1990	ton	zha	0	-0.81	-0.66
acetone	C3H6O	cyclohexane	C6H12	0.520	298.14	101	1975	han	fen	2	-0.72	-0.73
acetone	C3H6O	2-heptanone	C7H14O	0.546	303.14	101	1971	ram	til	0	-0.18	-0.18
acetone	C3H6O	water	H2O	0.472	318.14	101	1989	fre		0	-0.67	-0.45
1,3-dioxacyclopentane	C3H6O2	butanone	C4H8O	0.720	288.15	101	1989	com		0	-0.10	-0.10
methyl ethanoate	C3H6O2	1-chlorobutane	C4H9Cl	0.290	298.15	101	1990	ave	rou	0	-0.45	-0.46

1,3-dioxacyclopentane	C3H6O2	1-butanol	C4H10O	0.850	298.15	101	1999	bro	cal	1	-1.10	-0.97
methyl ethanoate	C3H6O2	2-methyl-2-propanol	C4H10O	0.541	318.15	101	2004	ort	esp	2	-1.71	-1.58
ethyl methanoate	C3H6O2	benzene	C6H6	0.950	298.15	101	1997	hu	tam	1	-0.08	-0.08
ethyl methanoate	C3H6O2	benzene	C6H6	0.650	298.15	101	1997	hu	tam	1	-0.38	-0.37
propanoic acid	C3H6O2	cyclohexane	C6H12	0.921	313.15	101	1996	com	fra	0	0.11	0.10
1,3-dioxacyclopentane	C3H6O2	2,2,4-trimethylpentane	C8H18	0.090	298.15	101	1993	fra	com	1	-0.07	-0.07
1-chloropropane	C3H7Cl	benzene	C6H6	0.925	298.14	101	1989	gar	gar	1	0.00	0.00
dimethylformamide	C3H7NO	2-methyl-1-propanol	C4H10O	0.577	298.15	101	1991	cha	wan	0	-1.12	-0.80
dimethylformamide	C3H7NO	1,3-cyclopentadiene	C5H6	0.684	298.14	101	1983	ked	sem	0	-0.46	-0.45
dimethylformamide	C3H7NO	water	H2O	0.301	318.15	101	1995	zai	kre	0	0.66	0.96
1-nitropropane	C3H7NO2	chlorobenzene	C6H5Cl	0.702	298.14	101	1978	nic	eck	0	-0.10	-0.14
2-nitropropane	C3H7NO2	cyclohexane	C6H12	0.078	298.14	101	1984	mar	all	0	-0.14	-0.15
2-propanol	C3H8O	1-propanol	C3H8O	0.033	298.14	101	1970	pol	mur	1	0.01	0.01
2-propanol	C3H8O	1,2-propanediamine	C3H10N2	0.204	298.15	101	2006	kim	kit	0	1.15	0.49
1-propanol	C3H8O	1,3-propanediamine	C3H10N2	0.337	298.15	101	2006	kim	kit	0	1.97	0.97
1-propanol	C3H8O	1,2-propanediamine	C3H10N2	0.985	298.15	101	2006	kim	kit	0	0.22	0.17
2-propanol	C3H8O	ethyloxirane	C4H8O	0.532	298.15	101	1996	com	fra	2	-1.41	-1.29
1-propanol	C3H8O	1,4-dioxane	C4H8O2	0.250	298.15	101	1999	cal	bro	0	-1.43	-1.22
1-propanol	C3H8O	N-methyl-2-pyrrolidone	C5H9NO	0.347	298.15	101	2001	let	lac	0	-0.64	-0.32
2-propanol	C3H8O	3-pentanone	C5H10O	0.843	298.15	101	1995	let	nev	1	-0.81	-0.74
1-propanol	C3H8O	propyl ethanoate	C5H10O2	0.800	308.14	101	1975	bel	bal	0	-0.95	-0.85
1-propanol	C3H8O	1,1-dimethylethyl methyl ether	C5H12O	0.400	298.15	101	1994	zhu	she	4	-0.84	-0.60
2-propanol	C3H8O	1,3-dichlorobenzene	C6H4Cl2	0.330	298.15	101	1993	let	nev	0	-1.01	-1.09
1-propanol	C3H8O	1,3-dichlorobenzene	C6H4Cl2	0.226	298.15	101	1993	let	nev	0	-0.69	-0.77
2-propanol	C3H8O	cyclohexane	C6H12	0.072	298.15	101	1996	sin	kal	3	-0.04	-0.08
1-propanol	C3H8O	1-hexanol	C6H14O	0.554	298.15	101	1993	lop	leg	0	-0.03	-0.03
1-propanol	C3H8O	heptane	C7H16	0.901	323.15	101	2003	lie	lin	0	-0.21	-0.24
2-propanol	C3H8O	1,4-dimethylbenzene	C8H10	0.800	298.15	101	1996	sin	kal	0	-0.40	-0.44
1-propanol	C3H8O	1-octene	C8H16	0.520	298.15	101	1993	let	mer	1	-0.23	-0.31

1-methylsulfinyl-2-thiapropane	C3H8OS2	1-pentanamine	C5H13N	0.133	298.15	101	2003	kim	mat	0	-0.10	0.03
1-methylsulfinyl-2-thiapropane	C3H8OS2	ethylbenzene	C8H10	0.032	298.15	101	1999	kim	suz	0	-0.05	-0.05
1-methylsulfinyl-2-thiapropane	C3H8OS2	ethylbenzene	C8H10	0.180	298.15	101	1999	kim	suz	0	-0.22	-0.23
1,3-propanediol	C3H8O2	2-propanamine	C3H9N	0.141	298.15	101	2006	kim	kit	0	2.82	2.11
2-methoxyethanol	C3H8O2	1,2-propanediyl carbonate	C4H6O3	0.763	313.15	101	2000	com	fra	0	-0.34	-0.34
2-methoxyethanol	C3H8O2	diethyl carbonate	C5H10O3	0.060	313.15	101	1999	fra	cas	0	-0.32	-0.29
1,2-propanediol	C3H8O2	1-heptanol	C7H16O	0.853	298.14	101	1974	gar	paz	0	-0.26	-0.27
1,2-propanediol	C3H8O2	water	H2O	0.281	298.14	101	1977	mat	tou	0	0.52	0.35
3-amino-1-propanol	C3H9NO	water	H2O	0.030	323.15	101	2007	mun	hen	1	0.65	0.60
1,3-propanediamine	C3H10N2	toluene	C7H8	0.705	303.15	101	2001	kec	dah	0	-0.84	-0.84
.gamma.-butyrolactone	C4H6O2	1-hexanol	C6H14O	0.470	298.15	101	1990	ram	ram	0	-1.48	-1.34
2,3-butanedione	C4H6O2	water	H2O	0.006	313.15	101	2012	doh	reh	0	0.07	0.07
(R)-4-methyl-1,3-dioxolan-2-one	C4H6O3	(S)-4-methyl-1,3-dioxolan-2-one	C4H6O3	0.537	298.15	101	2006	kim	kha	0	0.01	0.01
1,2-propanediyl carbonate	C4H6O3	1,2-dimethylbenzene	C8H10	0.600	288.15	101	1975	shc	ten	1	-0.27	-0.30
butanenitrile	C4H7N	cyclohexane	C6H12	0.887	303.14	101	1983	val	gra	0	-0.17	-0.18
butanenitrile	C4H7N	methylcyclohexane	C7H14	0.520	298.14	101	1980	ale	ale	0	-0.32	-0.33
2-pyrrolidinone	C4H7NO	1-pentanol	C5H12O	0.101	303.15	101	1997	meh	cha	0	-0.62	-0.79
tetrahydrofuran	C4H8O	benzene	C6H6	0.600	298.15	101	2006	gin	mar	0	-0.01	-0.01
butanone	C4H8O	heptane	C7H16	0.769	328.19	101	1984	fuc	kre	0	-0.46	-0.47
tetrahydrofuran	C4H8O	water-d2	H2O	0.230	283.17	101	1973	gle	wat	0	-0.14	-0.02
tetrahydrofuran	C4H8O	water	H2O	0.805	297.99	101	1971	nak	shi	0	-1.09	-0.83
propyl methanoate	C4H8O2	1,5-dichloropentane	C5H10Cl2	0.953	298.15	101	2009	mar	ort	0	0.00	0.00
1,3-dioxane	C4H8O2	benzene	C6H6	0.064	298.15	101	1997	tak	oga	0	-0.06	-0.06
1,4-dioxane	C4H8O2	aniline	C6H7N	0.982	293.15	101	1984	chr	gme	1	-0.10	-0.04
1,4-dioxane	C4H8O2	cyclohexanone	C6H10O	0.800	298.15	101	2000	tam	osa	1	-0.20	-0.20
methyl propanoate	C4H8O2	cyclohexane	C6H12	0.529	298.15	101	1998	mar	por	0	-0.52	-0.53
ethyl ethanoate	C4H8O2	1-bromohexane	C6H13Br	0.632	303.14	101	1980	oti	tom	0	-0.33	-0.34

2-methyl-1,3-dioxolane	C4H8O2	heptane	C7H16	0.239	298.14	101	1979	mey	giu	0	-0.41	-0.41
1,4-dioxane	C4H8O2	2,2,4-trimethylpentane	C8H18	0.090	298.15	101	1997	tak	oga	0	-0.21	-0.21
2-bromo-2-methylpropane	C4H9Br	cyclohexane	C6H12	0.572	283.15	101	1980	pei	gra	0	0.07	0.07
1-chlorobutane	C4H9Cl	benzene	C6H6	0.078	298.15	101	1991	sin	kal	0	-0.03	-0.03
2-chlorobutane	C4H9Cl	hexane	C6H14	0.250	308.14	101	1978	lai	doa	0	-0.08	-0.08
1-chlorobutane	C4H9Cl	1-heptanol	C7H16O	0.656	298.15	101	1999	san	bal	0	-0.62	-0.68
N,N-dimethylacetamide	C4H9NO	1-chlorohexane	C6H13Cl	0.304	308.15	101	2007	gar	emb	0	-0.55	-0.57
1-butanol	C4H10O	2-methyl-2-propanol	C4H10O	0.159	299.14	101	1973	mur	ben	0	0.28	0.28
(RS)-2-butanol	C4H10O	2-(N,N-dimethylamino)ethanol	C4H11NO	0.769	298.15	101	1995	yan	zha	0	0.36	0.31
(RS)-2-butanol	C4H10O	N-methyl-2-pyrrolidone	C5H9NO	0.603	298.15	101	2001	let	lac	0	-1.07	-0.73
2-methyl-2-propanol	C4H10O	butyl methanoate	C5H10O2	0.837	299.15	101	2005	ort	esp	0	-1.00	-0.96
1-butanol	C4H10O	diethyl carbonate	C5H10O3	0.181	308.15	101	1999	com	fra	1	-1.16	-1.05
diethyl ether	C4H10O	1,1-dimethylethyl methyl ether	C5H12O	0.750	298.15	101	1997	lia	zha	0	-0.02	-0.02
diethyl ether	C4H10O	3-methyl-1-butanol	C5H12O	0.571	298.27	101	1925	hir		0	-1.10	-0.88
(RS)-2-butanol	C4H10O	chlorobenzene	C6H5Cl	0.165	298.14	101	1989	cha	dai	0	-0.80	-0.86
1-butanol	C4H10O	cyclohexane	C6H12	0.774	288.15	101	1983	fre		0	-0.03	-0.06
1-butanol	C4H10O	cyclohexane	C6H12	0.057	308.14	101	1970	bel	kur	0	-0.18	-0.22
2-methyl-2-propanol	C4H10O	cyclohexane	C6H12	0.003	318.14	101	1983	fre		0	-0.03	-0.03
2-methyl-2-propanol	C4H10O	cyclohexane	C6H12	0.061	318.14	101	1983	fre		0	-0.36	-0.40
1-butanol	C4H10O	2-methylpentane	C6H14	0.501	298.15	101	1994	gar	san	0	-0.08	-0.14
2-methyl-1-propanol	C4H10O	diethyl 1,3-propanedioate	C7H12O4	0.200	288.15	101	2010	wan	gao	2	-1.71	-1.58
2-methyl-1-propanol	C4H10O	heptane	C7H16	0.150	298.14	100	1986	osw	sch	0	-0.22	-0.28
1-butanol	C4H10O	ethylbenzene	C8H10	0.227	298.14	101	1961	mra	van	0	-0.60	-0.68
1-butanol	C4H10O	water	H2O	0.140	298.00	100	1991	ben	hei	0	0.02	-0.08
2-ethoxyethanol	C4H10O2	cyclohexane	C6H12	0.624	308.15	101	2006	mis	tsi	0	-0.69	-0.72
diethylamine	C4H11N	benzene	C6H6	0.545	293.15	101	1969	sie	gro	0	0.02	-0.05
pyridine	C5H5N	N-	C5H13NO2	0.485	298.15	101	2013	pou	sha	0	-0.21	-0.08

		methyldiethanolamine										
pyridine	C5H5N	chlorobenzene	C6H5Cl	0.100	313.14	101	1979	mal	pat	0	-0.05	-0.05
pyridine	C5H5N	hexane	C6H14	0.316	298.15	101	1992	kec	dub	0	-0.53	-0.53
pyridine	C5H5N	2,2,4-trimethylpentane	C8H18	0.799	298.14	101	1972	kon		0	-0.49	-0.49
pyridine	C5H5N	water	H2O	0.015	298.14	101	1973	sha	abd	0	0.06	0.06
2-methyl-1,3-butadiene	C5H8	pentane	C5H12	0.300	293.15	101	1977	gue	bit	0	0.25	0.25
2,4-pentanedione	C5H8O2	1-pentanol	C5H12O	0.050	298.15	100	2008	li	yan	1	-0.17	-0.13
.gamma.-valerolactone	C5H8O2	toluene	C7H8	0.912	293.15	101	2002	bjo	sid	1	-0.09	-0.10
1-oxacyclohexan-2-one	C5H8O2	toluene	C7H8	0.855	293.15	101	2002	bjo	sid	1	-0.20	-0.20
cyclopentane	C5H10	2,3-dimethylbutane	C6H14	0.071	288.15	101	1973	ewi	mar	1	0.00	0.00
cyclopentane	C5H10	octane	C8H18	0.443	298.19	101	1983	let	hey	0	-0.08	-0.08
cyclopentanol	C5H10O	cyclohexane	C6H12	0.345	298.14	101	1974	ben	ana	0	-0.21	-0.27
2-pentanone	C5H10O	1-chlorohexane	C6H13Cl	0.450	298.15	101	1991	pic	men	0	-0.21	-0.21
tetrahydropyran	C5H10O	hexane	C6H14	0.497	308.15	101	2010	siw	dim	1	-0.35	-0.35
pentanal	C5H10O	hexane	C6H14	0.304	298.14	101	1983	ing	fer	0	-0.38	-0.38
tetrahydropyran	C5H10O	1-hexanol	C6H14O	0.448	298.15	101	1994	alo	cal	0	-1.36	-1.12
3-pentanone	C5H10O	triethylamine	C6H15N	0.224	303.14	101	1986	kok		1	-0.29	-0.29
propyl ethanoate	C5H10O2	hexane	C6H14	0.134	298.14	101	1974	gro	bal	0	-0.16	-0.16
ethyl propanoate	C5H10O2	N-propyl-1-propanamine	C6H15N	0.511	298.14	101	1989	nun	bar	0	0.04	-0.03
diethyl carbonate	C5H10O3	ethoxybenzene	C8H10O	0.610	313.15	101	2000	fra	com	0	-0.30	-0.30
1-fluoropentane	C5H11F	hexane	C6H14	0.778	298.15	101	1991	art	fer	13	-0.14	-0.14
N,N-diethylformamide	C5H11NO	toluene	C7H8	0.825	298.14	101	1974	uki	tan	0	-0.01	-0.01
1-nitropentane	C5H11NO2	benzene	C6H6	0.341	298.14	101	1978	hsu	cle	0	0.17	0.14
pentane	C5H12	1,6-dibromohexane	C6H12Br2	0.408	298.15	101	1993	ort	pla	2	-0.36	-0.35
1-pentanol	C5H12O	1-pentanamine	C5H13N	0.727	15.00	101	1979	sim	ver	0	1.86	1.27
1-pentanol	C5H12O	aniline	C6H7N	0.718	298.15	101	1990	wan	cha	2	-1.28	-1.69
1,1-dimethylethyl methyl ether	C5H12O	1-hexene	C6H12	0.202	308.15	101	1997	let	dom	0	-0.11	-0.11
1-pentanol	C5H12O	1,6-dichlorohexane	C6H12Cl2	0.553	298.15	101	1998	med	fer	0	-0.91	-0.99

1-pentanol	C5H12O	1,3-dimethylbenzene	C8H10	0.401	298.14	101	1985	rod	paz	0	-0.54	-0.62
1,1-dimethylethyl methyl ether	C5H12O	1-octyne	C8H14	0.644	298.15	101	1999	let	gov	0	-0.07	-0.07
diethoxymethane	C5H12O2	octane	C8H18	0.796	298.14	101	1979	mey	giu	1	-0.14	-0.15
1,2-dichlorobenzene	C6H4Cl2	chlorobenzene	C6H5Cl	0.600	298.14	101	1979	tan	ben	0	-0.05	-0.05
1,2-dichlorobenzene	C6H4Cl2	1,2-dimethylbenzene	C8H10	0.402	308.14	101	1979	mah	khu	0	0.00	0.00
bromobenzene	C6H5Br	cyclohexane	C6H12	0.550	298.14	101	1979	mur	kim	0	-0.10	-0.09
chlorobenzene	C6H5Cl	benzonitrile	C7H5N	0.676	298.14	101	1974	tan	mur	0	-0.01	-0.01
fluorobenzene	C6H5F	methylcyclohexane	C7H14	0.800	283.10	101	1968	bha	muk	0	-0.02	-0.01
benzene	C6H6	cyclohexane	C6H12	0.802	298.14	101	1976	ell	wor	0	-0.05	-0.04
benzene	C6H6	cyclohexane	C6H12	0.656	328.13	101	1966	sab	bel	0	0.00	0.01
benzene	C6H6	2-methylpentane	C6H14	0.726	298.14	101	1973	paz		0	-0.19	-0.17
benzene	C6H6	1-fluoro-2-methylbenzene	C7H7F	0.400	303.14	101	1985	oti	tol	1	-0.08	-0.08
benzene	C6H6	heptane	C7H16	0.691	297.99	101	1971	let	bay	0	-0.14	-0.13
benzene	C6H6	1,3-dimethylbenzene	C8H10	0.780	323.14	101	1972	paz	her	0	-0.13	-0.13
4-methylpyridine	C6H7N	hexane	C6H14	0.317	298.15	101	1992	kec	dub	0	-0.44	-0.44
2-methylpyridine	C6H7N	ethylcyclohexane	C8H16	0.600	298.14	101	1972	woy		0	-0.35	-0.35
3-methylpyridine	C6H7N	octane	C8H18	0.722	298.15	101	1992	kas	wil	0	-0.49	-0.49
3-methylpyridine	C6H7N	water	H2O	0.294	298.15	101	1998	mar	gie	0	0.80	0.91
cyclohexene	C6H10	cyclohexane	C6H12	0.457	298.14	101	1982	gro	ing	0	0.00	0.00
1-hexyne	C6H10	1-methyl-1-(1-methylethoxy)ethane	C6H14O	0.486	298.15	101	1999	let	gov	0	-0.09	-0.10
2,5-hexanedione	C6H10O2	heptane	C7H16	0.953	298.14	101	1989	mar	der	0	-0.37	-0.38
(E)-2-hexene	C6H12	(E)-3-hexene	C6H12	0.237	298.14	101	1975	woy		0	0.00	0.00
1-hexene	C6H12	3-methylpentane	C6H14	0.200	298.15	101	2004	wan	ben	0	0.03	0.03
1-hexene	C6H12	2-methylpentane	C6H14	0.200	298.15	101	2004	wan	ben	0	0.02	0.02
cyclohexane	C6H12	hexane	C6H14	0.034	298.14	101	1970	ewi	mar	1	-0.02	-0.02
cyclohexane	C6H12	hexane	C6H14	0.200	298.14	101	1987	bao	you	0	-0.12	-0.12
cyclohexane	C6H12	hexane	C6H14	0.357	298.14	79	1988	elk	whi	0	-0.18	-0.18
cyclohexane	C6H12	hexane	C6H14	0.500	298.14	101	1970	ewi	mar	1	-0.21	-0.21
cyclohexane	C6H12	1-hexanol	C6H14O	0.528	298.14	101	1987	ves	doh	0	-0.26	-0.31

cyclohexane	C6H12	toluene	C7H8	0.830	298.14	101	1970	paz	bal	0	0.13	0.14
cyclohexane	C6H12	toluene	C7H8	0.256	298.14	101	1965	wat	mcl	0	-0.03	-0.03
cyclohexane	C6H12	1,4-dimethylbenzene	C8H10	0.905	298.14	101	1982	nag	oga	0	-0.06	-0.05
cyclohexane	C6H12	1-octyne	C8H14	0.924	298.14	101	1988	let	tay	0	-0.05	-0.05
cyclohexanol	C6H12O	water	H2O	0.002	298.15	101	2002	hov	rou	0	0.03	0.03
propyl propanoate	C6H12O2	hexane	C6H14	0.589	298.14	101	1989	lor	leg	0	-0.29	-0.29
butyl ethanoate	C6H12O2	ethylbenzene	C8H10	0.200	298.15	101	2009	ort	nav	0	-0.05	-0.05
butyl ethanoate	C6H12O2	1-octyne	C8H14	0.471	298.15	101	1992	kir	kuu	0	-0.19	-0.20
2,2-dimethylbutane	C6H14	2-ethyl-1-butanol	C6H14O	0.400	298.14	101	1982	kim	ben	0	-0.25	-0.30
2,3-dimethylbutane	C6H14	2-methyl-1-pentanol	C6H14O	0.350	298.14	101	1982	kim	ben	1	-0.17	-0.21
dipropyl ether	C6H14O	heptane	C7H16	0.100	298.14	101	1983	kim	dar	0	-0.03	-0.03
2-butoxyethanol	C6H14O2	water	H2O	0.613	322.13	101	1994	lim	whi	0	-0.38	-0.59
N-propyl-1-propanamine	C6H15N	heptane	C7H16	0.529	298.14	101	1984	paz	sar	0	-0.17	-0.16
triethylamine	C6H15N	water	H2O	0.495	288.15	101	1968	ber	lar	0	1.66	1.73
benzaldehyde	C7H6O	heptane	C7H16	0.281	298.14	101	1982	fer	mar	0	-0.12	-0.11
toluene	C7H8	2,6-dimethylpyridine	C7H9N	0.552	303.15	101	2006	ben	ait	0	-0.06	-0.06
toluene	C7H8	1,2-dimethylbenzene	C8H10	0.370	298.14	101	1969	mur	lam	0	-0.03	-0.03
diethyl 1,3-propanedioate	C7H12O4	heptane	C7H16	0.799	288.15	101	2010	wan	gao	2	-0.50	-0.52
cycloheptane	C7H14	heptane	C7H16	0.907	298.15	101	1992	por		1	-0.11	-0.11
heptane	C7H16	1-heptanol	C7H16O	0.513	298.14	101	1989	ami	leg	0	-0.12	-0.18
1,4-dimethylbenzene	C8H10	1,3-dimethylbenzene	C8H10	0.310	298.14	101	1970	lam	mur	0	0.01	0.01

[a] Experimental data extracted from SOURCE Data Archival System; [b] Sorted according to Hill notation

Table S3. Deviations of activity coefficients at temperature T, pressure P, and mole fraction of the first component x_1 calculated with Model I (γ_I) and Model II (γ_{II}) from the experimental values [a]

Component 1 [b]		Component 2 [b]		x_1	T / K	P / kPa	Reference code				$\ln\gamma_I - \ln\gamma_{exp}$	$\ln\gamma_{II} - \ln\gamma_{exp}$
Name	Formula	Name	Formula									
tetrachloromethane	CCl4	2-methyl-1,3-butadiene	C5H8	0	293.15	0	1982	tho	new	1	0.12	0.13
methanol	CH4O	octane	C8H18	0.014	293.15	0	1992	wob	hra	0	-0.81	-0.77
ethanoic acid	C2H4O2	N-methyl-2-pyrrolidone	C5H9NO	0.597	390.85	0	2011	pin	pen	0	0.28	0.29
ethanol	C2H6O	ethyl ethanoate	C4H8O2	0	312.99	0	1982	tho	new	0	-0.66	-0.14
propene	C3H6	1-propanol	C3H8O	1	300.03	0	2004	miy		0	-0.68	-0.68
propane	C3H8	3-methylphenol	C7H8O	0	309.99	0	2010	miy	ash	0	-0.9	-0.9
2-propanol	C3H8O	toluene	C7H8	0	313.14	0	1989	kno	tie	0	-0.04	0.51
2-butanone oxime	C4H9NO	heptane	C7H16	0.045	368.13	101	1968	gei	koe	0	-0.02	-0.04
(RS)-2-butanol	C4H10O	water	H2O	0.017	293.15	0	1986	sag	lau	0	0.84	0.58
2-furaldehyde	C5H4O2	heptane	C7H16	0	298.15	0	2012	fur	coe	0	-0.95	-0.94
benzene	C6H6	octane	C8H18	0.47	338.13	40	1968	els	lu	0	0.05	0.05
triethylamine	C6H15N	octane	C8H18	1	298.15	0	2000	cas	eik	0	0.04	0.04

[a] Experimental data extracted from SOURCE Data Archival System; [b] Sorted according to Hill notation

List of references to Tables 1S to 3S

1900	von		0	Von Zawidzki, J., Vapor pressures of binary liquid mixtures, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1900, 35, 129.
1901	ebe		0	Ebersole, M. R., Minimum Boiling-Points and Vapor Composition II., J. Phys. Chem. 1901, 5, 239.
1902	sch		0	Schreinemakers, F. A. H., Steam Pressure in the system: water, acetone and phenol. III, Z. Phys. Chem. (Leipzig) 1902, 41, 331.
1904	sch		0	Schreinemakers, F. A. H., Vapor pressures in the system benzene, carbon tetrachloride, and ethyl alcohol: I, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1904, 47, 445-70.
1907	lat		0	Lattey, R. T., The vapour pressures of triethylamine, of 2,4,6-tri- methylpyridine, and of their mixtures with water, J. Chem. Soc. Trans. 1907, 91, 1959.
1910	dor	pol	0	Doroshevskii, A.; Polansky, E., The vapor pressures of mixtures of alcohols with water, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1910, 73, 192.
1910	vre		0	Vrevskii, M. S., Zh. Russ. Fiz.-Khim. O-va, Chast Khim. 1910, 42, 1.
1913	wre		0	Wrewsky, M., Composition and vapor pressure of binary mixtures, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1913, 81, 1-29.
1914	ros	bac	0	Rosanoff, M. A.; Bacon, C. W.; White, R. H., A Rapid Laboratory Method of Measuring the Partial Vapor Pressures of Liquid Mixtures, J. Am. Chem. Soc. 1914, 36, 1803-25.
1917	fox	bar	0	Fox, J. J.; Barker, M. F., Determination of phenol in commercial cresylic acid, J. Soc. Chem. Ind. (London) 1917, 36, 842.
1921	sch		0	Schulze, A., Equilibrium in condensed systems, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1921, 97, 388-416.
1921	sch		1	Schulze, A., Equilibrium in condensed systems, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1921, 97, 388-416.
1924	lou	bri	0	Louder, E. A.; Briggs, T. R.; Browne, A. W., Vapor pressure curves for systems containing alcohol, ether, and water, Ind. Eng. Chem. 1924, 16, 932-935.
1924	pov	mar	0	Povarnin, G.; Markov, V., The system acetic acid - water, Zh. Russ. Fiz.-Khim. O-va, Chast Khim. 1924, 55, 381-2.
1924	wei	sch	2	Weissenberger, G.; Schuster, F.; Schuler, K., Molecular compounds of phenols IV behavior of binary systems with phenols and phenol ethers, Monatsh. Chem. 1924, 45, 425.
1925	dob		0	Dobson, H. J. E., CCCXCVII. The Partial Pressures of Aqueous Ethyl Alcohol, J. Chem. Soc. Trans. 1925, 127, 2866.
1926	sch		0	Schmidt, G. C., Binary mixtures, Z. Phys. Chem., Stoechiom. Verwandschaftsl. 1926, 121, 221-53.
1932	fer		0	Ferguson, J. B., The system methyl alcohol-n-hexane at 45 degrees, J. Phys. Chem. 1932, 36, 1123.
1933	wri		0	Wright, W. A., A method for a more complete examination of binary liquid mixtures, J. Phys. Chem. 1933, 37, 233.
1935	nag	isi	1	Nagai, Y.; Isii, N., Studies on Volatility of Fuels Containing Ethyl Alcohol III. Total and Partial Vapor Pressures of Mixtures of Ethyl Alcohol and Cyclohexane, Proc. Imp. Acad. (Tokyo) 1935, 11, 23-5.
1935	nag	isi	5	Nagai, Y.; Isii, N., Studies of the Volatility of Fuels Containing Ethyl Alcohol II. Calculation of Starting Tempertures of an Engine when using Ethyl Alcohol-Ethyl Ether Mixtures as its Fuel, Kogyo Kagaku Zasshi 1935, 38, 86-91.
1935	tri	pot	0	Trimble, H. M.; Potts, W., Glycol-water Mixtures. Vapor Pressure-boiling Point Composition Relations, Ind. Eng. Chem. 1935, 27, 66-8.
1936	pia		0	Piatti, L., Binary mixtures: IV, Angew. Chem. 1936, 49, 77-8.
1936	yus	tor	0	Yushkevich, N. F.; Torocheshnikov, N. S., The coexistence of liquid and vapor phases in solutions of nitrogen and carbon monoxide, Zh. Khim. Prom-sti 1936, 13, 1273.
1938	sca	ray	0	Scatchard, G.; Raymond, C. L., Vapor-Liquid Equil. II. Chloroform-Methanol Mixtures at 35, 45, and 55 5!31, J. Am. Chem. Soc. 1938, 60, 1278-87.
1938	tah		0	Tahvonen, P. E., Determination of the Saturation Pressure of Solutions by Fontell's Method, Commentat. Phys.-Math. 1938, 10, 1.

1939	kir	ger	1	Kirschbaum, E.; Gerstner, F., Phase equilibrium curves for the ethyl alcohol + water system at low pressures, Verfahrenstechnik (Berlin) 1939, 10-15.
1939	tak		0	Takagi, S., Boiling points of the system of formic acid and water, Bull. Chem. Soc. Jpn. 1939, 14, 508-9.
1940	mil	bli	0	Miller, H. C.; Bliss, H., The system isopropyl ether - isopropanol vapor-liquid equilibrium, Ind. Eng. Chem. 1940, 32, 123-5.
1940	nii		0	Niini, A., Bestimmung der isothermen dampfdruekkurven von wasser-, methanol- und athanolgemischen und eine abschaetzung der van de waalsschen kraefte in fluessigkeiten, Ann. Acad. Sci. Fenn. 1940, 55, 1-52.
1942	boe	han	0	Boeseken, J.; Hanegraaff, J. A., Oxidation velocity of cycloheptene, 3-heptene and 4-nonene by peracetic acid, Recl. Trav. Chim. Pays-Bas 1942, 61, 69.
1942	yor	hol	0	York, R.; Holmes, R. C., Vapor-liquid equilibria of the system acetone - acetic acid - water, Ind. Eng. Chem. 1942, 34, 345-350.
1945	oth	ben	0	Othmer, D. F.; Benenati, R. F., Composition of vapors from boiling binary solutions: aqueous systems of acetone, methanol, and methyl ethyl ketone; and other systems with acetic acid as one component, Ind. Eng. Chem. 1945, 37, 299-303.
1946	hol	hix	0	Holdren, R. F.; Hixon, R. M., Vapor pressure and vapor-liquid equilibria in the system furfural - 2- methylfuran, Ind. Eng. Chem. 1946, 38, 1061-2.
1947	bri	nut	0	Britton, E. C.; Nutting, H. S.; Horsley, L. H., Vapor-liquid equilibrium diagrams of alcohol - ketone azeotropes as a function of pressure, Anal. Chem. 1947, 19, 601.
1948	dun		0	Dunlop, J. G., Thesis, 1948.
1948	kre	now	0	Kretschmer, C. B.; Nowakowska, J.; Wiebe, R., Densities and liquid-vapor equilibria of the system ethanol- isoctane (2,2, 4-trimethylpentane) between 0 and 50!31, J. Am. Chem. Soc. 1948, 70, 1785-1790.
1948	rao	ach	0	Rao, C. V.; Achary, M. V. R.; Narasinga Rao, M., Vapour-liquid equilibria of non-ideal solutions: II alcohol -water, Trans., Indian Inst. Chem. Eng. 1948, 2, 6-15.
1948	udo	fri	0	Udovenko, V. V.; Frid, Ts. B., Boiling temperatures in binary mixtures: III, Zh. Fiz. Khim. 1948, 22, 1263-70.
1948	udo	fri	1	Udovenko, V. V.; Frid, Ts. B., Evaporation heat in binary mixtures: II, Zh. Fiz. Khim. 1948, 22, 1135-45.
1948	udo	fri	2	Udovenko, V. V.; Frid, Ts. B., Evaporation heat in binary mixtures: II, Zh. Fiz. Khim. 1948, 22, 1135-45.
1949	ber	pop	0	Berg, L.; Popovac, D. O., Effect of reduced pressure on efficiency of a packed rectification column, Chem. Eng. Prog. 1949, 45, 683.
1949	den	fid	0	Denyer, R. L.; Fidler, F. A.; Lowry, R. A., Azeotrope Formation Between Thiols and Hydrocarbons, Ind. Eng. Chem. 1949, 41, 2727-37.
1949	for	sim	0	Fordyce, C. R.; Simonsen, D. R., Cellulose ester solutions, Ind. Eng. Chem. 1949, 41, 104.
1949	gri	buf	0	Griswold, J.; Buford, C. B., Separation of synthesis mixtures vapor-liquid equilibria of acetone - methanol - water, Ind. Eng. Chem. 1949, 41, 2347.
1950	hic	hal	0	Hickman, J. B.; Hall, J. L., Liquid-vapor equilibria, refractive indices and freezing points in the system: 2-methylfurane + methanol, Proc. W. Va. Acad. Sci. 1950, 22, 72-9.
1950	sie		0	Sieg, L., Liquid-vapor equilibria in binary systems of hydrocarbons of various types, Chem.-Ing.-Tech. 1950, 22, 322-326.
1950	spi	kru	0	Spicer, W. M.; Kruger, J., Azeotrope in the bromine + carbon tetrachloride system, J. Am. Chem. Soc. 1950, 72, 1855-6.
1950	vie		0	Vierk, A.-L , Experimental Investigation of the Two-Component Systems: Water-Aceto-Nitrole, Water-Dioxane, Ethanol-Acetonitrile and Cyclohexane-Dioxane, Z. Anorg. Chem. 1950, 261, 283.
1951	alp	elv	1	Alpert, N.; Elving, P. J., Vapor-liquid equilibria in binary systems systems involving cis- or trans- dichloroethylene and a ketone or ester, Ind. Eng. Chem. 1951, 43, 1182.
1951	spi	mey	0	Spicer, W. M.; Meyer, L. H., Some azeotropes of bromine, J. Am. Chem. Soc. 1951, 73, 934-8.
1952	bac	sim	0	Bachman, K. C.; Simons, E. L., Vapor-liquid equilibria at subatmospheric pressures binary system acetone - carbon tetrachloride, Ind. Eng. Chem. 1952, 44, 202.

1952	buk	maj	0	Bukala, M.; Majewski, J., A two-plate apparatus for the determination of the equilibrium state of liquid-vapor systems for normal and reduced pressure tests on chloroform and benzene, Przem. Chem. 1952, 31(8), 551-554.
1952	bur		0	Burtle, J. G., Vapor Pressure-Composition Measurement son Aqueous Hydrazine Solutions, Ind. Eng. Chem. 1952, 44, 1675.
1952	fow		0	Fowler, R. T., Azeotropism in binary solutions at reduced pressures: III pyridine + water solution, J. Appl. Chem. (London) 1952, 2, 246-249.
1952	oth	sil	0	Othmer, D. F.; Silvis, S. J.; Spiel, A., Composition of vapors from boiling binary solutions pressure equilibrium still for studying water - acetic acid system, Ind. Eng. Chem. 1952, 44, 1864-72.
1952	sca	kav	0	Scatchard, G.; Kavanagh, G. M.; Ticknor, L. B., Vapor-liquid equilibrium: viii hydrogen peroxide - water mixtures, J. Am. Chem. Soc. 1952, 74, 3715-20.
1952	sca	tic	0	Scatchard, G.; Ticknor, L. B., Vapor-liquid equilibrium: ix the methanol - carbon tetrachloride - benzene system, J. Am. Chem. Soc. 1952, 74, 3724-9.
1952	udo	fat	1	Udovenko, V. V.; Fatkulina, L. G., Vapor pressure of three-component systems I the system ethyl alcohol - 1,2- dichloro - ethane - benzene, Zh. Fiz. Khim. 1952, 26, 719.
1953	cop	eve	0	Copp, J. L.; Everett, D. H., Thermodynamics of binary mixtures containing amines., Discuss. Faraday Soc. 1953, 15, 174-188.
1953	mat	des	0	Mathot, V.; Desmyter, A., Application of the cell method to the statistical thermodynamics of solutions: II experimental, J. Chem. Phys. 1953, 21, 782-8.
1953	ots	wil	0	Otsuki, H.; Williams, F. C., Effect of pressure on vapor-liquid equilibria for the system ethyl alcohol - water, Chem. Eng. Prog. Symp. Ser. 1953, 49, 55-67.
1953	uch	oga	0	Uchida, S.-I.; Ogawa, S.; Hirata, M.; Shimada, G.; Shimokawa, S., Vapor-liquid equilibrium of the system acetone + methanol + water: I vapor- liquid equilibria in three binary systems, J. Chem. Eng. Jpn. 1953, 17, 191-3.
1953	vri	med	0	Vriens, G. N.; Medcalf, E. C., Correlation of ternary liquid-liquid equilibria an explanation of solutropy, Ind. Eng. Chem. 1953, 45, 1098.
1954	bro	smi	1	Brown, I.; Smith, F., Liquid-vapour equilibria: V the system carbon tetrachloride + acetonitrile at 45c, Aust. J. Chem. 1954, 7, 269.
1954	ell	fro	0	Ellis, S. R. M.; Froome, B. A., Apparatus and technique vacuum vapor-liquid equilibrium still, Chem. Ind. (London) 1954, 237-40.
1954	mcg	pru	0	McGlashan, M. L.; Prue, J. E.; Sainsbury, I. E., Trans. Faraday Soc. 1954, 50, 1284.
1954	tal	sch	0	Tallmadge, J. A.; Schroeder, D. W.; Edmister, W. C.; Canjar, L. N., Integral isobaric heat of vaporization of methanol - benzene mixtures, Chem. Eng. Prog. Symp. Ser. 1954, 50, 137-42.
1955	arm	gol	0	Armstrong, G. T.; Goldstein, J. M.; Roberts, D. E., Liquid-Vapor Equilibrium in Solutions of Oxygen and Nitrogen at Pressures Below One Atmosphere, J. Res. Natl. Bur. Stand. (U. S.) 1955, 55, 265.
1955	hol	rig	0	Holtzlander, G. W.; Riggle, J. W., Total Pressure Method for Vapor-liquid Equilibria at Low Absolute Pressures: Aniline-nitrobenzene Systems, AIChE J. 1955, 1, 312.
1955	jen	dip	0	Jenkins, A. C.; DiPaolo, F. S.; Birdsall, C. M., The system ozone + oxygen, J. Chem. Phys. 1955, 23, 2049-54.
1955	mac	che	0	MacCormack, K. E.; Chenier, J. H., Vapor-liquid equilibria in dilute aqueous solutions of ethylene oxide, Ind. Eng. Chem. 1955, 47, 1454-1458.
1955	mye		0	Myers, H. S., Vapor-liquid equilibrium data for binary mixtures of paraffins and aromatics., Ind. Eng. Chem. 1955, 47, 2215.
1955	usa	bil	0	Usanovich, M.; Bilyalov, K.; Krasnomolova, L., Oxonium compounds of esters with organic acids: I, Zh. Obshch. Khim. 1955, 25, 471.
1955	yan	van	0	Yang, C. P.; Van Winkle, M., Vapor-liquid equilibria at subatmospheric pressures, Ind. Eng. Chem. 1955, 47, 293.
1956	bou	kuc	0	Boublik, T.; Kuchynka, K., Liquid-vapor equilibrium:xvii water + monoethylether ethylene glycol, Chem. Listy 1956, 50, 1181.
1956	bru	bon	0	Brusset, H.; Bono, D., Vapor pressures of associated solutions: systems formed by some phenols with carbon tetrachloride, C. R. Hebd. Seances Acad. Sci. 1956, 242, 130.
1956	sch		0	Schriever, Arch. Pharm. Ber. Dtsch. Pharm. 1956, 289, 343.

1957	cha	ale	1	Chalov, N. V.; Aleksandrova, O. A., Liquid-vapor phase equilibrium of acetic acid - water system at atmospheric and lower pressures, Gidroliz. Lesokhim. Prom-st. 1957, 10, 10.
1957	cru	jos	0	Cruetzen, J. L.; Jost, W.; Sieg, L., Equilibrium Measurements in the System Anilin-N-Methylanilin, N-N-Dimethylanilin,1,2-Athandiol, Z. Elektrochem. 1957, 61, 230.
1957	har	moo	0	Harper, B. G.; Moore, J. C., Vapor-liquid equilibrium new still and method for determining vapor-liquid equilibrium, Ind. Eng. Chem. 1957, 49, 411-4.
1957	mal	mal	0	Malyusov, V. A.; Malafeev, N. A.; Zhavoronkov, N. M., Liquid-Vapor Phase Equilibriums in Binary Mixtures of Styrene, Ethylbenzene , and Propanol, Zh. Fiz. Khim. 1957, 31, 699.
1957	mur	van	0	Murti, P. S.; Van Winkle, M., Vapor-liquid equilibriums and heat of mixing: octane-ethylbenzene-Cellosolve system, AIChE J. 1957, 3, 517-522.
1957	mye		1	Myers, H. S., V-l equilibrium for naphthenes and paraffins, Petroleum Refiner 1957, 36, 175-8.
1957	per		0	Perugini, G., Vapor-Liquid Equilibrium. Ethyl Chloride-Butane Mixtures, Chim. Ind. (Milan, Italy) 1957, 39, 445-8.
1957	rao	rao	1	Rao, M. R.; Rao, K. V. K.; Rao, C. V., J. Appl. Chem. 1957, 7, 666.
1957	rao	rao	2	Rao, K. V. K.; Rao, C. V., Chem. Eng. Sci. 1957, 7, 97.
1958	cha	ale	0	Chalov, N. V.; Aleksandrova, O. A., Liquid-vapor equilibria in the formic acid + water system, Sb. Tr., Vses. Nauch.-Issled. Inst. Gidroliza Rastit. Mater. 1958, 6, 149-56.
1958	gaz	zel	0	Gaziev, G. A.; Zel'venskii, Ya. D.; Shalygin, V. A., Zh. Prikl. Khim. (Leningrad) 1958, 31, 1220.
1958	mal	val	0	Maltese, P.; Valentini, G., Liquid-vapor equilibrium curve of the dimethylformamide - formic acid system, Chim. Ind. (Milan, Italy) 1958, 40, 548-51.
1958	mat	kra	0	Mathias, S.; Krausz, M. R., Binary systems of ethers and thioethers with halide compounds, An. Acad. Bras. Cienc. 1958, 30, 511-20.
1958	mur	van	0	Murti, P. S.; Van Winkle, M., Vapor-Liquid Equilibria for Binary Systems of Methanol, Ethyl Alcohol, 1-Propanol, and 2-Propanol with Ethyl Acetate and 1-Propanol-Water, Ind. Chem. Eng. 1958, 3, 72-81.
1958	zie	brz	2	Zieborak, K.; Brzostowski, W., Rocz. Chem. 1958, 32, 1145.
1958	zie	mac	1	Zieborak, K.; Maczynska, Z., Hetero-polyazeotropic system: III the methanol + n-paraffinic hydrocarbons under pressure, Rocz. Chem. 1958, 32, 295.
1958	zie		1	Zieborak, K., The Boiling-Temperature Isobars of the Isooctane-Aniline System at Various Pressures, Bull. Acad. Pol. Sci., Ser. Sci., Chim., Geol. Geogr. 1958, 6, 449-452.
1959	gor	mor	0	Gorodetskii, I. Ya.; Morachevskii, A. G.; Olevskii, V. M., Liquid-vapor equilibrium and mutual solubility of components in cyclohexane + water system, Vestn. Leningr. Univ., Ser. 4: Fiz. Khim. 1959, 14, 136.
1959	mac		0	Macarron, A., Determination of liquid-vapor equilibrium diagrams in binary systems with chemical reactions, Rev. R. Acad. Cienc., Exactas, Fis. Nat. (Madrid) 1959, 53, 607-647.
1959	nie	web	0	Nielsen, R. L.; Weber, J. H., Vapor-Liquid Equilibria at Subatmospheric Pressures. Binary and Ternary Systems Containing Ethyl Alcohol, Benzene, and n-Heptane, J. Chem. Eng. Data 1959, 4, 145.
1959	pic	hal	0	Pick, J.; Hala, E.; Fried, V., Vapor-liquid equilibrium. XIX. Phase equilibria in the system n-propanol- water-n-propyl acetate, Collect. Czech. Chem. Commun. 1959, 24, 1589-95.
1960	ell	mcd	0	Ellis, S. R. M.; McDermott, C.; Williams, J. C. L., Proc. Int. Symp. Distill., 1960.
1960	gar	sta	0	Garbarenko, V. G.; Stabnikov, V. N., Izv. Vyssh. Uchebn. Zaved., Pishch. Tekhnol. 1960, 4, 112.
1960	ken	lin	1	Kenttamaa, J.; Lindberg, J. J.; Nissema, A., Vapour pressures and activities in the dimethyl sulphoxide-benzene system, Suom. Kemistil. B 1960, 33, 189-92.
1960	kri	kha	1	Krichevskii, I. R.; Khazanova, N. E.; Svetlova, G. M.; Panina, R. S., Total vapour pressure over triethylamine + water mixtures in the critical region, Zh. Fiz. Khim. 1960, 34, 2160.

1960	kyl	tet	0	Kyle, B. G.; Tetlow, N. J., Perfluorotributylamine as an Extractive Distillation Solvent for a Hydrocarbon Mixture, J. Chem. Eng. Data 1960, 5, 275.
1960	orr	coa	0	Orr, V.; Coates, J., Versatile vapor-liquid equilibrium still, Ind. Eng. Chem. 1960, 52, 27-30.
1960	rab	nik	0	Rabinovich, I. B.; Nikolaev, P. N., Isotope effect in the thermodynamics of liquid mixtures: I isotope effect in the vapour pressure curves of deuterochloroform + acetone mixtures, Zh. Fiz. Khim. 1960, 34, 2289.
1960	riv		0	Rivenq, F., Ebulliometry of formic acid + water mixtures, Bull. Soc. Chim. Fr. 1960, 1505-7.
1960	udo	ale	1	Udovenko, V. V.; Aleksandrova, L. P., The vapor pressures of three-component systems: III, Zh. Fiz. Khim. 1960, 34, 1366-72.
1961	del		1	Delvalle, P., Association of phenol in solution with carbon tetrachloride at different temperatures, C. R. Hebd. Seances Acad. Sci. 1961, 252, 1457.
1961	mra	van	0	Mrazek, R. V.; Van Ness, H. C., Heats of mixing: alcohol - aromatic binary systems at 25, 35 and 45 c., AIChE J. 1961, 7, 190-5.
1961	ogo	kog	5	Ogorodnikov, S. K.; Kogan, V. B.; Nemtsov, M. S., Liquid-vapor equilibrium in binary systems of hydrocarbons with acetone, Zh. Prikl. Khim. (Leningrad) 1961, 34, 323-331.
1961	riv		0	Rivenq, F., Vapor-liquid data for the system water - propionic acid, Bull. Soc. Chim. Fr. 1961, 1392-5.
1961	sau	spa	0	Saunders, D. F.; Spaull, A. J. B., Total and Partial Vapour Pressures of a Series of Binary Liquid Mixtures of Organic Nitrocompounds., Z. Phys. Chem. (Munich) 1961, 28, 332.
1961	sch		1	Schneider, G., Vapor-liquid equilibrium in the system methylcyclohexane + toluene + aniline, Z. Phys. Chem. (Munich) 1961, 27, 171-84.
1961	sus		0	Susarev, M. P., Liquid-vapor equilibrium in the system water + dimethylformamide, Zh. Prikl. Khim. (Leningrad) 1961, 34, 412.
1962	bit	kau	0	Bittrich, H.-J.; Kauer, E.; Kraft, M.; Schoppe, G.; Soll, W.; Ullrich, A., The Vapor Pressures of the Ethylamines, J. Prakt. Chem. 1962, 17, 250.
1962	car	kro	0	Carr, A. D.; Kropholler, H. W., Vapor Liquid Equilibria at Atmospheric Pressure. Binary Systems of Ethyl Acetate-Benzene, Ethyl Acetate-Toluene, and Ethyl Acetate-p-Xyle, J. Chem. Eng. Data 1962, 7, 26.
1962	kat		1	Katayama, T., Heats of mixing, liquid heat capacities and enthalpy-concentration charts for methanol - water and isopropanol - water systems, Kagaku Kogaku 1962, 26, 361-72.
1962	kir	fis	0	Kirschbaum, E.; Fischer, H.; Wolf, D., Operation and capacity of a distillation column with a large number of plates at high and low concentrations of the mixture benzene + ethylene, Chem.-Ing.-Tech. 1962, 34, 423-9.
1962	nag		4	Nagata, I., Isobaric Vapor-Liquid Equilibria for the Ternary System Chloroform-Methanol-Ethyl Acetate, J. Chem. Eng. Data 1962, 7, 367-73.
1962	ste	van	0	Stephenson, R. W.; Van Winkle, M., Modification of Relative Volatilities by Addition of Solvent., J. Chem. Eng. Data 1962, 7, 510-516.
1962	sus	lyz	0	Susarev, M. P.; Lyzlova, R. V., Liquid-Vapor Equil. in the Benzene-Cyclohexand-Methylcyclopentane System methylcyclopentane system, Russ. J. Phys. Chem. 1962, 36, 230.
1962	wol	hoe	0	Wolff, H.; Hoepfner, A., The Hydrogen Bonding Association of Methylamine in n-Hexane, Based on Vapor Pressure Measurements., Z. Elektrochem. 1962, 66, 149.
1963	bit	fle	0	Bittrich, H.-J.; Fleischer, W., Vapor-Liquid Equilibrium in the Methanol + Dimethyl Formamide System, J. Prakt. Chem. 1963, 20, 151.
1963	dvo	bou	0	Dvorak, K.; Boublik, T., Liquid-vapour equilibria. XXlX. measurement of equilibrium data in systems with high equilibrium ratio of the components, Collect. Czech. Chem. Commun. 1963, 28, 1249.
1963	eng	bit	0	Engelmann, K.; Bittrich, H.-J., Vapor-liquid equilibria of the cyclohexanone + cyclohexanol system at 30, 1 00, and 300 torr, J. Prakt. Chem. 1963, 19, 106.
1963	goe		0	Goelles, F., Monatsh. Chem. 1963, 94, 1108.
1963	ho	lu	0	Ho, J. C. K.; Lu, B. C.-Y., Vapor-Liquid Equilibria- Part II. System n-Hexane-Ethanol-Benzene at 55' C., J. Chem. Eng. Data 1963, 8, 553-558.

1963	ito	yos	0	Ito, T.; Yoshida, F., Vapor-Liquid Equilibria of Water-Lower Fatty Acid Systems. Water- Formic Acid, Watrer-Acetic Acid and Water-Propionic Acid, J. Chem. Eng. Data 1963, 8, 315-20.
1963	mac	zie	1	Maczynska, Z.; Zieborak, K., Unknown, Bull. Pol. Acad. Sci., Chem. 1963, 11, 225.
1963	mac		1	Maczynska, Z., Vapour-liquid equilbria. binary systems pyridine-n-paraffins at constant temperature. II, Bull. Acad. Pol. Sci.-Chim. 1963, 11, 225.
1963	pra	van	1	Prabhu, P. S.; Van Winkle, M., Effect of Polar Components on Relative Volatility of the Binary System: Normal Octane-Ethylcylohexane., J. Chem. Eng. Data 1963, 8, 14-20.
1963	rao	rao	4	Rao, B. V. S.; Rao, C. V., Indian J. Technol. 1963, 1, 143.
1963	ste	bit	0	Steinbrecher, M.; Bittrich, H.-J., A new boiling point and melting point apparatus for determination of px- diagrams for multicomponent systems, Z. Phys. Chem. (Leipzig) 1963, 224, 97-109.
1963	ten	mis	0	Tenn, F. G.; Missen, R. W., A Study of the Condensation of Binary Vapors of Miscible Liquids equilibrium relations., Can. J. Chem. Eng. 1963, 41, 12.
1963	yua	lu	0	Yuan, K. S.; Lu, B. C.-Y., Vapor-Liquid Equilibria Part I. System Carbon-Tetrachloride-Cyclohxane Propanol-1 at Atmospheric Pressure, J. Chem. Eng. Data 1963, 8, 549.
1964	alt	bel	0	Altsybeeva, A. I.; Belousov, V. P.; Ovtrakht, N. V.; Morachevskii, A. G., Phase equilibria and thermodynamic properties of the system sec-butanol - water, Zh. Fiz. Khim. 1964, 38, 1242.
1964	alt	mor	0	Altsybeeva, A. I.; Morachevskii, A. G., Phase equilibria in and thermodynamic properties of the ethyl methyl ketone + water system, Zh. Fiz. Khim. 1964, 38, 1569.
1964	edw	sch	0	Edwards, J. L.; Schaefer, K., Vapor Pressure and Activity Coeff. of the Acetone-isooctane System, Z. Naturforsch., A: Astrophys. Phys. Phys. Chem. 1964, 19, 136.
1964	sha	bra	0	Shakhova, S. F.; Braude, G. E., Liquid-liquid Equilibria in Systems Liquid Ammonia - Acetylene Hydrocarbons, Khim. Prom-st. (Moscow) 1964, 906-9.
1964	wol	hoe	0	Wolff, H.; Hoepfner, A.; Hoepfner, H. M., The Association of Methyl-, Ethyl-, and n-Propylamine in saturated Aliphatic Hydrocarbons, Ber. Bunsen-Ges. Phys. Chem. 1964, 68, 410.
1965	dei	kog	0	Deizenrot, I. V.; Kogan, V. B.; Fridman, V. M., Isolation of pure hexamethylenediamine., Khim. Prom-st. (Moscow) 1965, 41, 178.
1965	kat	sun	0	Katayama, T.; Sung, E. K.; Lightfoot, E. N., Isothermal Activity Coefficients for the System Cyclohexane-n-Heptane- Toluene at 25 deg. C, AIChE J. 1965, 11, 924.
1965	nag		0	Nagata, I., Vapor-Liquid Equilibrium Data, J. Chem. Eng. Data 1965, 10, 106.
1965	ory	pra	0	Orye, R. V.; Prausnitz, J. M., Thermodynamic PRoperties of Some Binary Solutions COntaining Hydrocarbons and Polar Organic Solvents, Trans. Faraday Soc. 1965, 61, 1338.
1965	sok	sev	0	Sokolov, N. M.; Sevryugova, N. N.; Zhavoronkov, N. M., Liquid-Gas Equilibrium in the System Acrylonitrile-Acrolein at Various Pressures, Zh. Fiz. Khim. 1965, 39, 1008.
1965	wat	mcl	0	Watson, A. E. P.; McLure, I. A.; Bennett, J. E.; Benson, G. C., Excess Properties of Some Aromatic-Alicyclic Systems. I. Measurements of Enthalpies and Volumes of Mixing, J. Phys. Chem. 1965, 69, 2753.
1965	wil	sil	0	Wilson, G. M.; Silverberg, P. M.; Zellner, M. G., Argon - oxygen - nitrogen three-component system experimental vapor-liquid equilibrium data, Adv. Cryog. Eng. 1965, 10, 192-208.
1965	woy	kur	0	Woycicka, M. K.; Kurtyka, Z., Bull. Acad. Pol. Sci.-Chim. 1965, 13, 469.
1966	arm	ban	0	Arm, H.; Bankay, D.; Schaller, R.; Waelti, M., Organic mixed phases. IV. Vapor pressure, therm. mixture functions and refractive indexes of the binayr systems tetrahydrdiethyl ether and methanol-tetrahydrofuran at 25 deg.C., Helv. Chim. Acta 1966, 49, 2598.
1966	bra	oni	0	Brandreth, D. A.; O'Niell, S. P.; Missen, R. W., Trans. Faraday Soc. 1966, 62, 2355.
1966	eng	bit	0	Engelmann, K.; Bittrich, H.-J., The isobaric liquid-vapor equilibria of the systems diethylamine + ethyl acetate, diethylamine + 1,4-dioxane, and ethyl acetate + 1,4-dioxane at 760 torr, Wiss. Z. Tech. Hochsch. Chem. "Carl Schorlemmer" Leuna-Merseburg 1966, 8, 148-53.

1966	eng	bit	1	Engelmann, K.; Bittrich, H.-J., The isobaric liquid-vapor equilibria of the diethylamine + ethylacetate, diethylamine + 1,4-dioxane and ethyl acetate + 1,4-dioxane at sub-atmospheric pressures, Wiss. Z. Tech. Hochsch. Chem. "Carl Schorlemmer" Leuna-Merseburg 1966, 8, 289.
1966	hun	sim	0	Hunsmann, W.; Simmrock, K. H., Separation of water, formic acid, and acetic acid by means of azeotropic distillation, Chem.-Ing.-Tech. 1966, 38, 1053-9.
1966	kle		1	Klesper, I., Z. Phys. Chem. (Munich) 1966, 51, 1.
1966	kus	tat	0	Kushner, T. M.; Tatsievskaya, G. I.; Irzun, V. A.; Volkova, L. V.; Serafimov, L. A., Zh. Fiz. Khim. 1966, 40, 3010.
1966	kus	tat	1	Kushner, T. M.; Tatsievskaya, G. I.; Irzun, V. A.; Volkova, L. V.; Serafimov, L. A., Liquid-vapor phase equilibrium in the water - formic acid- acetic acid system at 50 and 200 mm hg pressure, Russ. J. Phys. Chem. 1966, 40, 1615-1619.
1966	mad	mur	0	Madhavan, M.; Murti, P. S., Vapour-liquid equilibria of the system cyclohexane + methanol: ebulliometric method., Chem. Eng. Sci. 1966, 21, 465.
1966	mur	fuj	0	Murakami, S.; Fujishiro, R., Heat of mixing of binary mixtures, Kogyo Kagaku Zasshi 1966, 69, 1627-31.
1966	mur	fuj	1	Murakami, S.; Fujishiro, R., The heats of mixing for binary mixtures: III the intermolecular energy of hydrogen bonding between alcohol and several other polar molecules, Bull. Chem. Soc. Jpn. 1966, 39, 720-5.
1966	pup	rib	0	Pupezin, J.; Ribnikar, S.; Knezevic, Z.; Dokic, V., Liquid-vapor equilibrium and thermodynamic properties of the system sulfur dioxide - dimethyl ether, Bull. Boris Kidric Inst. Nucl. Sci. 1966, 17, 297-309.
1966	sab	bel	0	Sabinin, V. E.; Belousov, V. P.; Morachevskii, A. G., Heat of Mixing and Heat of Vaporization in the Benzene-Cyclohexane System, Izv. Vyssh. Uchebn. Zaved., Khim. Khim. Tekhnol. 1966, 9, 382.
1966	slo	bab	0	Slobodyanik, I. P.; Babushkina, E. M., Liquid-vapor equilibrium in the system methanol + ethanol, Zh. Prikl. Khim. (Leningrad) 1966, 39, 1899-901.
1966	ste	bit	0	Steinbrecher, M.; Bittrich, H.-J., Isothermal liquid-vapor equilibrium of binary systems composed of tetrachloromethane, ethyl acetate, and dioxane, Z. Phys. Chem. (Leipzig) 1966, 232, 313.
1966	vin	sus	0	Vinichenko, I. G.; Susarev, M. P., Zh. Prikl. Khim. (Leningrad) 1966, 39, 1583.
1966	win	van	0	Winterhalter, D. R.; Van Ness, H. C., An Isothermal Dilution Calorimeter for Exothermic Heats of Mixing, J. Chem. Eng. Data 1966, 11, 189.
1966	wol	hoe	0	Wolff, H.; Hoeppel, H. E., Ber. Bunsen-Ges. Phys. Chem. 1966, 70, 874.
1967	des	pan	0	Deshpande, D. D.; Pandya, M. V., Thermodynamics of binary solutions energies of aniline solutions, Trans. Faraday Soc. 1967, 63, 2149.
1967	dob	bag	0	Dobroserdov, L. L.; Bagrov, I. V., Phase equilibriums of the methyl acetate - methanol liquid-vapor system, Zh. Prikl. Khim. (Leningrad) 1967, 40, 875.
1967	fri	gal	0	Fried, V.; Gallant, P.; Schneier, G. B., Vapor-liquid equilibrium in the system pyridine-tetrachloroethylene, J. Chem. Eng. Data 1967, 12, 504.
1967	gal		3	Galska-Krajewska, A., Vapour-Liquid Equilibria in Binary Systems: p-xylene-Aliphatic Alcohols at 760 mm Hg, Rocz. Chem. 1967, 41, 609.
1967	han	van	0	Hanson, D. O.; Van Winle, M., Alteration of the Relative Volatility of n-Hexane-1-Hexene by Oxygenated and Chlorinated Solvents, J. Chem. Eng. Data 1967, 12, 319.
1967	hau		0	Haughton, C. O., Vapor-liquid equilibria of benzene and acetic acid, Br. Chem. Eng. 1967, 12, 1102.
1967	hum	van	0	Humphrey, J. L.; Van Winkle, M., Vapor-Liquid Equilibria at 60 deg C for n-Hexane-Alkyl Amines and 1-Hexene- Alkyl AMines, J. Chem. Eng. Data 1967, 12, 526.
1967	kri		0	Kriebel, M., Phase equilibria between liquid and vapour in the binary system difluoromonochloromethane + difluorodichloromethane, Kaeltetech.-Klim. 1967, 19, 8-14.
1967	nat	rao	0	Nataraj, V.; Rao, M. R., Isobaric Vapor-Liquid Equilibrium Data for the Binary Systems Benzene- Cyclohexand, Benzene-Isobutranol, and Cyclohexand-Isobutanol, Indian J. Technol. 1967, 5, 212.
1967	qui		0	Quitzsch, K., Thermodynamics of binary liquid mixtures with homologous formamides:

vi the dioxane - formamide system, Z. Phys. Chem. (Leipzig) 1967, 236, 241-52.

1967 rid but 0 Ridgway, K.; Butler, P. A., Some Physical Properties of the Ternary System Benzene-Cyclohexane-n-Hexane, J. Chem. Eng. Data 1967, 12, 509-515.

1967 tar dem 0 Taramasso, M.; DeMalde, M, Liquid Vapor Equilibria in Binary Systems : Acrylonitrile-propionitrile-acetonitrile-water, Chim. Ind. (Milan, Italy) 1967, 49, 820.

1967 udo maz 0 Udovenko, V. V.; Mazanko, T. F., Liquid-vapour equilibrium in the propan-2-ol - water and propan-2-ol - benzene systems, Zh. Fiz. Khim. 1967, 41, 1615-1620.

1967 van soc 0 Van Ness, H. C.; Soczek, C. A.; Peloquin, G. L.; Machado, R. L., Thermodynamic Excess Properties of Three Alcohol-Hydrocarbon Systems, J. Chem. Eng. Data 1967, 12, 217-224.

1967 yor yos 0 Yorizane, M.; Yoshimura, S.; Yamamoto, T., Measurement of the ternary vapor-liquid equilibrium (isopropyl alcohol - water - isopropyl ether system), Kagaku Kogaku 1967, 31, 451-7.

1968 abe ser 0 Abello, L.; Servais, B.; Kern, M.; Pannetier, G., The hydrogen bond N-H...N. XII. Thermodynamic study of self association in the cyclohexane ring of aniline and methylaniline., Bull. Soc. Chim. Fr. 1968, 4360-6.

1968 ber lar 0 Bertrand, G. L.; Larson, J. W.; Hepler, L. G., Thermochemcial investigations of the water + triethylamine system, J. Phys. Chem. 1968, 72, 4194.

1968 bha muk 0 Bhattacharyya, S. N.; Mukherjee, A. K., Excess thermodynamic functions of some binary electrolyte mixtures: I measurements of excess gibbs free energy, enthalpies, and volumes of mixing, J. Phys. Chem. 1968, 72, 56-63.

1968 bru del 0 Brusset, H.; Delvalle, P.; Philoche-Levisalles, M.; Demanee, L., Association of tertiary butyl alcohol in carbon tetrachloride at 25 c, Bull. Soc. Chim. Fr. 1968, 3113-20.

1968 cam kar 0 Campbell, A. N.; Kartzmark, E. M.; Anand, S. C.; Cheng, Y.; Dzikowski, H. P.; Skrynyk, S. M., Partially miscible liquid systems: the density, change of volume on mixing, vapor pressure, surface tension, and viscosity in the system: aniline-hexane, Can. J. Chem. 1968, 46, 2399-2407.

1968 els lu 0 Elshayal, I. M.; Lu, B. C.-Y., Isothermal Vapor-Liquid Equilibria for the Binary System Benzene-n-Octane octane, J. Appl. Chem. 1968, 18, 277-80.

1968 gar bov 0 Garber, Yu. N.; Bovkun, R. A., Liquid-vapor equilibrium in systems formed by certain ethylene glycol ethers with isomeric xylenes and with styrene, Zh. Prikl. Khim. (Leningrad) 1968, 41, 318.

1968 gei koe 0 Geiseler, G.; Koehler, H., Thermodynamic behavior of the binary systems methyl ethyl ketoxime + n- heptane, diethyl ketone + n-heptane, and methyl ethyl ketoxime + diethyl ketone, Ber. Bunsen-Ges. Phys. Chem. 1968, 72, 697-706.

1968 ker ser 0 Kern, M.; Servais, B.; Abello, L.; Pannetier, G., The n-h...n bond: x. thermodynamic study of self-association of cyclohexylamine and n-methylcyclohexylamine., Bull. Soc. Chim. Fr. 1968, 2763-8.

1968 koj toc 0 Kojima, K.; Tochigi, K.; Seki, H.; Watase, K., Determination of vapor-liquid equilibrium from boiling point curve, Kagaku Kogaku 1968, 32, 149-53.

1968 log fro 0 Loginova, M. A.; Frolov, A. F.; Ustavshchikov, B. F., Vapor-liquid equilibrium in the ethyl alcohol - ethyl acrylate system, Khim. Prom-st. (Moscow) 1968, 44, 275-276.

1968 mai men 0 Mainkar, S. V.; Mene, P. S., Indian Chem. Eng. 1968, 3, 137.

1968 mur rag 0 Murthy, D. P.; Achary, M. V. R., Vapor-Liquid Equilibria, Trans. Indian Inst. Chem. Eng. 1968, 26-9.

1968 nag men 0 Nageshwar, G. D.; Mene, P. S., Isobaric vapor liquid equilibrium data for the binary system n-butyl acetate - cyclohexanol, Indian J. Technol. 1968, 6, 374-5.

1968 qui kop 0 Quitzsch, K.; Kopp, R.; Renker, W.; Geiseler, G., Pressure of azeotrope formation for the t-butanol + water system, Z. Phys. Chem. (Leipzig) 1968, 237, 256-66.

1968 ram del 0 Ramalho, R. S.; Delmas, J., Isothermal and isobaric vapor-liquid equilibrium data nd excess free energies by the total pressure method, J. Chem. Eng. Data 1968, 13, 161.

1968 ram rue 0 Ramalho, R. S.; Ruel, M., Heats of Mixing for Binary Systems: n-Alkanes + n-Alcohols and n-Alcohols alcohols, Can. J. Chem. Eng. 1968, 46, 456-61.

1968 wol hoe 0 Wolff, H.; Hoeppel, H. E., Determination of methanol association in carbon tetrachloride by vapor pressure measurements, Ber. Bunsen-Ges. Phys. Chem. 1968, 72,

1173.
1969 bou enj 0 Bourgeois, A.; Enjalbert, M.; Racine, J., Vapor-liquid equilibrium: VI Systems ethyl alcohol + carbon tetrachloride and ethyl alcohol + trichloroethylene, Chim. Ind. Genie Chim. 1969, 102, 21324.
1969 bou lam 0 Boublik, T.; Lam, V. T.; Murakami, S.; Benson, G. C., The Excess Thermodynamic Functions of Cyclopentane-Carbon Tetrachloride Mixtures, J. Phys. Chem. 1969, 73, 2356-60.
1969 coc 0 Coca Prados, J., Physical-chemical properties of liquid binary mixtures. Viscosity and heat of mixture, Acta Salmant., Cienc. 1969, 7-39.
1969 eng bit 0 Engelmann, K.; Bittrich, H.-J., Estimation of isothermal mixing functions from isobaric liquid-vapor equilibriums, Wiss. Z. Tech. Hochsch. Chem. "Carl Schorlemmer" Leuna-Merseburg 1969, 11, 213.
1969 fin cop 0 Findlay, T. J. V.; Copp, J. L., Thermodynamics of binary systems containing amines V. Alcohols and Pyridine, Trans. Faraday Soc. 1969, 65, 1463-9.
1969 fin ken 0 Findlay, T. J. V.; Kenyon, R. S., Liquid-vapour equilibrium study of chloroform and pyridine, Aust. J. Chem. 1969, 22, 865-9.
1969 fri fra 0 Fried, V.; Franceschetti, D. R.; Gallanter, A. S., Thermodynamic properties of the system carbon tetrachloride-tetrachloroethylene, J. Phys. Chem. 1969, 73, 1476-9.
1969 hud van 0 Hudson, J. W.; Van Winkle, M., Multicomponent vapor-liquid equilibriums in systems of mixed positive and negative deviations, J. Chem. Eng. Data 1969, 14, 310-318.
1969 kha per 0 Kharin, S. E.; Perelygin, V. M.; Remizov, G. P., Liquid-vapor Phase Equilibriums in Ethanol-n-butanol and Water - n-butanol systems, Izv. Vyssh. Uchebn. Zaved., Khim. Khim. Tekhnol. 1969, 12, 424-8.
1969 kil zad 0 Kil, T. A.; Zadorskii, V. M., Liquid-vapor equilibrium for the crotonaldehyde + water system., Khim. Khim. Tekhnol. 1969, 217-21.
1969 koj kat 0 Kojima, K.; Kato, M., Measurements of isobaric boiling point curves at high and low pressures, Kagaku Kogaku 1969, 33, 769-75.
1969 man rad 0 Manczinger, J.; Radnai, G.; Tettamanti, K., Vapor-liquid equilibrium of the ethanol - dioxane system a novel apparatus for measuring vapor-liquid equilibriums under pressure, Period. Polytech., Chem. Eng. 1969, 13, 189-205.
1969 mik rat 0 Miksch, G.; Ratkovics, F.; Kohler, F., The System Acetic Acid + Carbon Tetrachloride: Exc. Gibbs Energy of Mixing, J. Chem. Thermodyn. 1969, 1, 257-65.
1969 mur lam 0 Murakami, S.; Lam, V. T.; Benson, G. C., The thermodynamic properties of binary aromatic systems: II excess enthalpies and volumes of benzene + toluene and toluene + isomeric xylene mixtures at 25!31c, J. Chem. Thermodyn. 1969, 1, 397-407.
1969 nak tob 0 Nakanishi, K.; Toba, R.; Shirai, H., Vapor-liquid equilibria of binary systems containing alcohols ethanol with nitromethane and diethylamine, J. Chem. Eng. Jpn. 1969, 2, 4-7.
1969 qui koe 0 Quitzsch, K.; Koehler, S.; Taubert, K.; Geiseler, G., Isobaric liquid-vapor equilibriums of the quasi-ideal binary systems butanol + sec-butanol and butanol + tert-butanol., J. Prakt. Chem. 1969, 311, 429-437.
1969 qui pri 1 Quitzsch, K.; Prinz, H. P.; Suehnel, K.; Pham, V. S.; Geiseler, G., Thermodynamic excess properties of binary systems with dimethyl sulfoxide, Z. Phys. Chem. (Leipzig) 1969, 241, 273-84.
1969 ren 0 Renker, W., Thesis, 1969.
1969 riv 0 Rivenq, F., Ebullioscopy of cyclohexane + toluene mixtures, Bull. Soc. Chim. Fr. 1969, 3034.
1969 rod hsu 0 Rodger, A. J.; Hsu, C. C.; Furter, W. F., Vapor-Liquid Equilibria for 23 Carbon Tetrachloride-Hydrocarbon Syst., J. Chem. Eng. Data 1969, 14, 362.
1969 sie gro 0 Siedler, R.; Grote, L.; Kauer, E.; Werner, U.; Bittrich, H.-J., Thermodynamics of binary systems of benzene with diethylamine and triethylamine, Z. Phys. Chem. (Leipzig) 1969, 241, 203-16.
1969 sig arm 0 Signer, R.; Arm, H.; Daeniker, H., Behavior of organic mixed phases: viii vapor pressures, densities, thermodynamic mixing functions, and refractive indexes of the binary systems water + tetrahydrofuran and water + ethyl ether at 25c, Helv. Chim. Acta 1969, 52, 2347-51.

1969	sus	ard	0	Susi, H.; Ard, J. S., J. Phys. Chem. 1969, 73, 2440.
1969	tom	lin	0	Tommila, E.; Lindell, E.; Virtalaine, M. -L.; Laakso, R., Densities, viscosities, surface tensions, dielectric constants, vapor pressures, activities, and heats of mixing of sulpholane + water, sulpholane + methanol, and sulpholane + ethanol mixtures., Suom. Kemistil. B 1969, 42, 95-104.
1969	utk	bal	0	Utkin, O. V.; Balashov, M. I.; Serafimov, L. A., Liquid-vapor phase equilibrium in a methyl acetate - acetaldehyde - water system at atmospheric pressure, Izv. Vyssh. Uchebn. Zaved., Khim. Khim. Tekhnol. 1969, 12, 1360-4.
1969	ves	pic	0	Vesely, F.; Pick, J., heats of mixing of normal alcohols with cyclohexane, Collect. Czech. Chem. Commun. 1969, 34, 1854.
1969	wol	wue	0	Wolff, H.; Wuertz, R., Vapor Pressure Isotope Effect in Associated Mixtures. Vapor Pressure Tests with Mixtures of Methylamine and of N-Deuteromethylamine with Trimethylamine., Z. Phys. Chem. (Munich) 1969, 67, 115-21.
1970	bel	kur	0	Belousov, V. P.; Kurtynina, L. M.; Kozulayev, A. A., Heats of mixing for liquids: vii heats of mixing for cyclohexane with propyl, butyl, isobutyl and decyl alcohols, Vestn. Leningr. Univ., Ser. 4: Fiz. Khim. 1970, 163.
1970	dav	sil	0	D'Avila, S. G.; Silva, R. S. F., Isothermal vapor-liquid equilibrium data by total pressure method: systems acetaldehyde - ethanol, acetaldehyde - water, and ethanol - water, J. Chem. Eng. Data 1970, 15, 421.
1970	ewi	mar	1	Ewing, M. B.; Marsh, K. N., Enthalpies of mixing of cyclohexane + carbon tetrachloride, of cyclohexane + cyclopentane, and of carbon tetrachloride + cyclopentane at various temperatures, J. Chem. Thermodyn. 1970, 2, 351.
1970	ewi	mar	4	Ewing, M. B.; Marsh, K. N.; Stokes, R. H.; Tuxford, C. W., The isothermal displacement calorimeter: design refinements, J. Chem. Thermodyn. 1970, 2, 751.
1970	hoe	kre	0	Hoepfner, A.; Kreibich, U. T.; Schaefer, K., Effect of molecular formula on the thermodyn. prop. of org. nonelectrolyte system of nonpolar liq., Ber. Bunsen-Ges. Phys. Chem. 1970, 74, 1016-20.
1970	iin	sud	0	Iino, M.; Sudoh, J.; Hirata, M.; Hirose, Y.; Nakae, A., Vapor-liquid equilibrium at atmospheric pressure carbon disulphide + methanol system, J. Chem. Eng. Data 1970, 15, 446-8.
1970	kat	kon	0	Kato, M.; Konishi, H.; Hirata, M., New apparatus for isobaric dew and bubble point method methanol + water, ethyl acetate + ethanol, water + 1-butanol, and ethyl acetate + water systems, J. Chem. Eng. Data 1970, 15, 435-9.
1970	kha	byv	0	Kharin, S. E.; Byval'tsev, Yu. A.; Perelygin, V. M., Heat of mixing of ethanol and water, Izv. Vyssh. Uchebn. Zaved., Pishch. Tekhnol. 1970, 115-20.
1970	kha	per	0	Kharin, S. E.; Perelygin, V. M.; Polyanskii, K. K., Gidroliz. Lesokhim. Prom-st. 1970, 23, 15.
1970	kor	sha	0	Korchemskaya, K. M.; Shakhparonov, M. I.; Antonova, N. M., Thermodynamic properties of a pyridine-benzene binary system, Termodin. Termokhim. Konstanty 1970, 83-9.
1970	lam	mur	0	Lam, V. T.; Murakami, S.; Benson, G. C., The thermodynamic properties of binary aromatic systems: III excess enthalpies and volumes of isomeric xylene mixtures at 25!31c, J. Chem. Thermodyn. 1970, 2, 17.
1970	les	ogo	4	Lesteva, T. M.; Ogorodnikov, S. K.; Kazakova, S. V., Liquid-vapor equilibria in the system trimethylcarbinol + methanol + water under 760 mm pressure, Zh. Prikl. Khim. (Leningrad) 1970, 43, 1574-1580.
1970	paz	bal	0	Paz Andrade, M. I.; Baluja, M. C.; Nunez, L., Enthalpies of mixing of binary systems at 25 c: hexane + cyclohexane, hexane + toluene, and toluene + cyclohexane. application to the study of the ternary system hexane + cyclohexane + toluene., An. Quim. 1970, 66, 949-54.
1970	per	vol	0	Perelygin, V. M.; Volkov, A. G., Liquid-vapor phase equilibrium in ethanol - methyl acetate and water - methyl acetate systems, Izv. Vyssh. Uchebn. Zaved., Pishch. Tekhnol. 1970, 124-6.
1970	pol	mur	0	Polak, J.; Murakami, S.; Benson, G. C.; Pflug, H. D., Excess enthalpy, volume, and gibbs free energy of n-propanol - isopropanol mixtures at 25!31c, Can. J. Chem. 1970, 48, 3782-5.

1970	pol	mur	1	Polak, J.; Murakami, S.; Lam, V. T.; Pflug, H. D.; Benson, G. C., Molar excess enthalpies, volumes, and Gibbs free energies of methanol- isomeric butanol systems at 25C., Can. J. Chem. 1970, 48, 2457-65.
1970	qui	hof	0	Quitzsch, K.; Hofmann, H.-P.; Hering, D.; Salzer, R.; Geiseler, G., Isobaric Liquid-Vapor Equilibrium of Binary and Ternary Mixtures of Methylglycol, Dimethylaminoethanbol and 2-(2-dimethylaminoethoxy)ethanol, Z. Phys. Chem. (Leipzig) 1970, 243, 321.
1970	rum	kul	0	Rumyantsev, P. G.; Kulagin, N. I.; Timofeev, V. S.; Serafimov, L. A. Fiz.-Khim. Osn. Rektifikatsii 162, 1970.
1970	str	svo	0	Strubl, K.; Svoboda, V.; Holub, R.; Pick, J., Liquid Vapor Equilibrium XIV. Isothermal Equilibriuim and Calculation of Excess Functions in the Systems Methanol-Cyclohexane and Cyclohexane-Propanol, Collect. Czech. Chem. Commun. 1970, 35, 3004.
1970	var	ste	0	Vargaftik, N. B.; Stepanov, V. G.; Tarlakov, Yu. V., Vapour pressure of aqueous glycerol solutions, Russ. J. Phys. Chem. 1970, 44, 1516-7.
1970	ver		2	Verhoeye, L. A. J., Chem. Eng. Sci. 1970, 25, 1903.
1970	wea	van	0	Weatherford, R. M.; Van Winkle, M., Vapor-liquid equilibriums of the quinary system hexane, methylcyclopentane, cyclohexane, benzene, and toulene, J. Chem. Eng. Data 1970, 15, 386-390.
1971	bec	kie	0	Becker, F.; Kiefer, M., Heat of mixing and formation of compounds in binary liquid systems: III ether-chloroform systems, Z. Naturforsch., A: Astrophys. Phys. Phys. Chem. 1971, 26, 1040.
1971	gar	mir	0	Garber, Yu. N.; Mironenko, V. F.; Barboi, V. M., Extractive rectification of allyl chloride in presence of methyl ethyl ketone, Zh. Prikl. Khim. (Leningrad) 1971, 44, 2224-28.
1971	jai	gup	0	Jain, D. V. S.; Gupta, V. K.; Lark, B. S., Thermodynamics of n-Alkane solutions: Part IV. Vapour pressures & excess free energies of n-heptan/CCl4 & n-Octane/CCl4 systems, Indian J. Chem. 1971, 9, 465.
1971	kat	sat	0	Kato, M.; Sato, T.; Hirata, M., Vapor-liquid equilibrium relationship of para-xylene + meta-xylene system at atmospheric pressure., J. Chem. Eng. Jpn. 1971, 4, 305-8.
1971	kra	lin	0	Kraus, J.; Linek, J., Liquid-vapor equilibrium. XLVIII. The systems acetone-benzene, acetone-toluene, benzene-methyl ethyl ketone, methyl ethyl ketone-toluene and methyl ethyl ketone-ethylbenzene, Collect. Czech. Chem. Commun. 1971, 36, 2547.
1971	kud	vii	0	Kudryavtseva, L. S.; Viit, H.; Eisen, O., Vapor-liquid equilibrium in 1-heptene-heptane, 1-heptene-octane, heptane-octane, benzene-thiophene, benzene-heptane, and thiophene-heptane binary systems at 55 C, Eesti NSV Tead. Akad. Toim., Keem., Geol. 1971, 20, 292-296.
1971	let	bay	0	Letcher, T. M.; Bayles, J. W., Thermodyn. Of some Binary Liquid Mixtures Containing Aliphatic Amines, J. Chem. Eng. Data 1971, 16, 266.
1971	nak	shi	0	Nakayama, H.; Shinoda, K., Enthalpies of mixing of water with some cyclic and linear ethers, J. Chem. Thermodyn. 1971, 3, 401-5.
1971	nis		0	Nishi, Y., Vapor-liquid equilibria of acetic acid + isopropanol + water + isopropyl acetate system, Kagaku Kogaku 1971, 35, 1257-62.
1971	och	koj	0	Ochi, K.; Kojima, K., Vapor-liquid equilibria for the system acetone + methanol + water, Kagaku Kogaku 1971, 35, 583-6.
1971	ram	til	0	Ramalho, R. S.; Tillie, J. L.; Kaliaguine, S. C., Heats of mixing for homologous series of ketones and their prediction from group interaction theory and the congruence principle, Can. J. Chem. Eng. 1971, 49, 830-6.
1971	ras	nat	0	Rastogi, R. P.; Nath, J.; Misra, R. R., Thermodynamics of weak interactions in liquid mixtures of chloroform and aromatic hydrocarbons, J. Chem. Thermodyn. 1971, 3, 307-17.
1971	sad	luf	0	Sadler, L. Y.; Luff, D. W.; McKinley, M. D., Vapor-liquid equilibrium for system toluene + n-amyl alcohol, J. Chem. Eng. Data 1971, 16, 446.
1971	sag	san	0	Sagnes, M.; Sanchez, V., Vapor-liquid equilibria for fourteen systems consisting of chlorinated hydrocarbons and alcohols, J. Chem. Eng. Data 1971, 16, 351-4.

1971	sch	sch	0	Schreiner, E.; Schuettau, E.; Rant, D.; Schuberth, H., The influence of several metal chlorides on the isothermal phase equilibrium behavior of the systems n-propanol + water and n-butanol + water, Z. Phys. Chem. (Leipzig) 1971, 247, 23-40.
1971	tsi	vas	1	Tsirlin, Yu. A.; Vasil'eva, V. A., Liquid-vapor equilibrium at decreased pressure water + tetrahydrofurfuryl alcohol binary mixture, Sb. Tr., Vses. Nauch.-Issled. Inst. Gidroliza Rastit. Mater. 1971, 163-9.
1971	wan	lu	0	Wang, J. L. H.; Lu, B. C.-Y., Vapor-liquid equilibrium data for the n-pentane - benzene system, J. Appl. Chem. Biotechnol. 1971, 21, 297.
1972	abr	mir	0	Abramov, E. V.; Mirzayan, A. S.; Fedorova, V. I., Heats of formation of ternary systems 1. the acetic acid + chloroform system, Izv. Akad. Nauk Kaz. SSR, Ser. Khim. 1972, 22, 26.
1972	bet	mcm	0	Betancourt, T.; McMillan, A. F., Vapor-liquid equilibrium of isobutyl alcohol + dimethyl sulfoxide system, J. Chem. Eng. Data 1972, 17, 311.
1972	des	osw	0	Deshpande, D. D.; Oswal, S. L., Vapour-liquid equilibrium and excess free energies for benzene + dioxan and carbon tetrachloride + dioxan systems, J. Chem. Soc., Faraday Trans. 1 1972, 68, 1059.
1972	fah	elg	0	Fahmy, A. F. M.; El-Ghannam, N. I. M., The boiling temperature-composition behaviour in binary systems of alkanol acetates with entrainers, Bull. Acad. Pol. Sci.-Chim. 1972, 20, 101.
1972	fun	cha	0	Funk, E. W.; Chai, F.-C.; Prausnitz, J. M., Thermodynamic Properties of Binary Liquid Mixtures Containing Aromatic and Saturated Hydrocarbons, J. Chem. Eng. Data 1972, 17, 24-7.
1972	ish	hir	0	Ishikawa, T.; Hirata, M.; Iizuka, Y., Vapor-liquid equilibria of 1,2-dichloroethane + methyl isobutyl ketone and methanol + toluene systems at 760 mm hg, Kagaku Kogaku 1972, 36, 566-9.
1972	kho	mah	1	Khosla, M. P.; Mahl, B. S.; Chopra, S. L.; Singh, P. P., Gibb's excess free energy of mixing, Z. Phys. Chem. (Leipzig) 1972, 251, 129-36.
1972	kon		0	Konakbaeva, E. G., Heats of Mixing of the Binary Systems Pyridine-Cyclohexane and Pyridine- Isooctane (2,2,4-Trimethylpentane), Vestn. Mosk. Univ., Ser. 2: Khim. 1972, 27, 250-2.
1972	li	won	0	Li, I. P. C.; Wong, Y. W.; Chang, S.-D.; Lu, B. C.-Y., Vapor-Liquid Equilibria in Systems n-Hexane-Benzene and n-Pentane-Toluene, J. Chem. Eng. Data 1972, 17, 492.
1972	lin	pro	0	Linek, J.; Prochazka, K.; Wichterle, I., Liquid-vapour equilibrium liv systems ethyl acetate - benzene, ethyl acetate - toluene and ethyl acetate - ethylbenzene, Collect. Czech. Chem. Commun. 1972, 37, 3010-3014.
1972	lin	wic	0	Linek, J.; Wichterle, I.; Polednova, J., Liquid-vapour equilibrium: liii the systems benzene + diisopropyl ether, dipropyl ether + toluene and dipropyl ether + ethylbenzene, Collect. Czech. Chem. Commun. 1972, 37, 2820-2829.
1972	mar	rat	1	Maripuri, V. O.; Ratcliff, G. A., Isothermal vapour-liquid equilibria in binary mixtures of ketones and alkanes., J. Appl. Chem. Biotechnol. 1972, 22, 899.
1972	mer		0	Mertl, I., Liquid-vapor equilibrium il phase equilibria in the ternary system ethyl acetate - ethanol - water, Collect. Czech. Chem. Commun. 1972, 37, 366-74.
1972	nis		0	Nishi, Y., Vapor-liquid equilibria accompanied by hypothetical chemical reaction, J. Chem. Eng. Jpn. 1972, 5, 334-9.
1972	pav	pop	0	Pavlova, P. S.; Popov, D. M.; Olevskii, V. M., Vapor-liquid equilibrium in systems consisting of the oxidation products of toluene, Trudy GIAP 1972, 15, 89.
1972	paz	her	0	Paz Andrade, M. I.; Hernandez, C.; Nunez, L.; Jimenez Cuesta, E., Microcalorimetric study of heats of mixing for the systems benzene + o-, m- , and p-xylene at 50c, J. Chim. Phys. Phys.-Chim. Biol. 1972, 69, 1132-5.
1972	raa	cod	0	Raal, J. D.; Code, R. K.; Best, D. A., Examination of ethanol - n-heptane, methanol - n-heptane systems using new vapor - liquid equilibrium still, J. Chem. Eng. Data 1972, 17, 211-6.
1972	reh	bit	0	Rehm, K.; Bittrich, H.-J., Heats of mixing of binary liquid systems by thermometric titration, Z. Phys. Chem. (Leipzig) 1972, 251, 109-21.
1972	riv		0	Rivenq, F., Ebulliometry of methylethyl ketone and toluene mixtures, Bull. Soc. Chim. Fr. 1972, 3782-3.

1972	sok	tsy	1	Sokolov, N. M.; Tsygankova, L. N.; Shtrom, M. I.; Zhavoronkov, N. M., Separation of a 1,2-propyleneglycol-ethyleneglycol mixture at different pressures, Khim. Prom-st. (Moscow) 1972, 48, 499.
1972	sta	met	0	Stabnikov, V. M.; Metyushev, B. D.; Protsyuk, T. B.; Yushchenko, N. M., Equilibrium in the ethyl alcohol + water system at atmospheric pressure, Pishch. Prom-st. (Kiev) 1972, 49-56.
1972	tat	kus	0	Tatsievskaya, G. I.; Kushner, T. M., Liquid-vapor equilibrium in the propionic acid + isobutyric acid and butyric acid + pentanoic acid systems, Sb. Nauch. Tr., Ivanov. Energ. Inst. 1972, 256-7.
1972	woy		0	Woycicki, W., Enthalpies of mixing of some binary mixtures of benzene, cyclohexane, and pyridine, and their methyl and ethyl derivatives, J. Chem. Thermodyn. 1972, 4, 1.
1973	abe		0	Abello, L., Heats of mixing of the binary systems chloroform or methylchloroform with aromatic hydrocarbons: I experimental data, J. Chim. Phys. Phys.-Chim. Biol. 1973, 70, 1355.
1973	ani	kon	0	Anisimova, Z. K.; Konakbaeva, E. G.; Shakhparonov, M. I., Teplofiz. Svoistva Veshchestv Mater. 1973, 7, 167.
1973	bye	gib	0	Byer, S. M.; Gibbs, R. E.; Van Ness, H. C., Vapor-Liquid Equilibrium Part II. Correlations from P-x Data for 15 Systems, AIChE J. 1973, 19, 245.
1973	cab	cec	0	Cabani, S.; Ceccanti, N., Thermodynamic properties of binary mixtures of cyclohexane with cyclic amines or cyclic ethers at 298.15K, J. Chem. Thermodyn. 1973, 5, 9.
1973	cam	kar	0	Campbell, R. H.; Kartzmark, E. M., Thermodynamic and Other Properties of Methanol + Acetone, Carbon Disulphide + Acetone, Carbon Disulphide + Methanol, and Carbon Disulphide + Methanol + Acetone, J. Chem. Thermodyn. 1973, 5, 163.
1973	dav	cot	0	D'Avila, S. G.; Cotrim, M. L., Rev. Bras. Tecnol. 1973, 4, 191.
1973	ewi	mar	1	Ewing, M. B.; Marsh, K. N., Excess gibbs free energies, excess enthalpies, and excess volumes for mixtures of cyclopentane + 2,3-dimethylbutane, J. Chem. Thermodyn. 1973, 5, 659.
1973	gei	sue	0	Geiseler, G.; Suehnel, K.; Quitzsch, K., Excess properties of binary systems from isomeric butanols, Z. Phys. Chem. (Leipzig) 1973, 254, 261.
1973	gle	wat	0	Glew, D. N.; Watts, H., Aqueous nonelectrolyte solutions: xii enthalpies of mixing of water and deuterium oxide with tetrahydrofuran, Can. J. Chem. 1973, 51, 1933.
1973	lak	kap	0	Lakhanpal, M. L.; Kapoor, K. K.; Lal, G.; Mandal, H. G., Thermochemical studies of some partially miscible liquid pairs of formic acid with benzene, toluene, and p-xylene, and of acetic anhydride and furfural with cyclohexane, Indian J. Chem. 1973, 11, 471.
1973	laz	mar	0	Lazeeva, M. S.; Markuzin, N. P., Experimental Data on Phase Equilibrium and on Chemical Equiliabrium in the Vapor in the System Acetic Acid-Water at 20 deg., Zh. Prikl. Khim. (Leningrad) 1973, 46, 360-363.
1973	li	lu	0	Li, I. P. C.; Lu, B. C.-Y.; Chen, E. C., Vapor-Liquid Equilibria of Binary Systems Containing n-Hexane, Cyclohexane, and Benzene at Low Temperatures, J. Chem. Eng. Data 1973, 18, 305-9.
1973	mat	kat	0	Matsunaga, I.; Katayama, T., Vapor-liquid equilibria for three binary mixtures of propionaldehyde, J. Chem. Eng. Jpn. 1973, 6, 397.
1973	min	rue	0	Minh, D. C.; Ruel, M., Total pressure method binary systems cyclohexane + n-pentanol, + n- heptanol, and + n-octanol, J. Chem. Eng. Data 1973, 18, 41-4.
1973	mur	ben	0	Murakami, S.; Benson, G. C., Thermodynamic properties of some isomeric butyl alcohol mixtures, Bull. Chem. Soc. Jpn. 1973, 46, 74-9.
1973	nag	oht	1	Nagata, I.; Ohta, T.; Takahashi, T.; Gotoh, K., Thermodynamic properties of methyl acetate-benzene and methyl acetate- cyclohexane mixtures, J. Chem. Eng. Jpn. 1973, 6, 129-34.
1973	oco	toj	0	Ocon, J.; Tojo, G.; Bao, M.; Arce, A., Liquid-vapor equilibrium. XI. normal binary carbon tetrachloride-propanol system., An. Quim. 1973, 69, 539.
1973	paz		0	Paz Andrade, M. I., Int. DATA Ser., Sel. Data Mixtures, Ser. A 1973, 97-104.
1973	phi	jam	0	Philippe, R.; Jambon, C.; Clechet, P., Thermodynamic properties of dimethylsulfoxide + halomethane mixtures: II vapour pressures and excess thermodynamic functions, J. Chem. Thermodyn. 1973, 5, 431-44.

1973	pin		0	Pinder, K. L., Activity of water in solution with tetrahydrofuran, J. Chem. Eng. Data 1973, 18, 275-7.
1973	riv		0	Rivenq, F., Ebulliscopy of toluene-furfural mixtures (laboratory note), Bull. Soc. Chim. Fr. 1973, 9, 9-10.
1973	riv		1	Rivenq, F., Bull. Soc. Chim. Fr. 1973, 2645.
1973	rui		0	Ruiz Echevarria, H., Liquid-vapour equilibrium lviii the systems benzene - 2-butanol, benzene - isobutanol and benzene - tert-butanol, Collect. Czech. Chem. Commun. 1973, 38, 1295-1301.
1973	sch	qui	0	Schmelzer, J.; Quitzsch, K., Isobaric liquid-vapor equilibriums of the binary systems benzene + ethylenediamine and water + ethylenediamine, Z. Phys. Chem. (Leipzig) 1973, 252, 280.
1973	sha	abd	0	Sharipov, M.; Abdykarimov, P. A.; Buketov, E. A.; Ugorets, M. Z., Microcalorimetric study of the interaction of a sulfur dioxide solution in pyridine with water and alkali, Izv. Akad. Nauk Kaz. SSR, Ser. Khim. 1973, 23, 35-9.
1973	str	von	0	Strubl, K.; Vonka, P.; Svoboda, V.; Holub, R., Liquid-vapour equilibirum. LVI. Correlation of the benzene - methanol systems, Collect. Czech. Chem. Commun. 1973, 38, 468-476.
1973	toj	bao	0	Tojo, G.; Bao, M.; Arce, A., Vapor-liquid equilibrium xv binary systems benzene - n-propanol and benzene - i-propanol at 760mm hg, An. Quim. 1973, 69, 1177-85.
1973	tol	kog	0	Tolstova, T. S.; Kogan, V. B.; Fridman, V. M.; Romanova, T. G., Liquid-vapor equilibrium in systems formed by heptane with lower nitroparaffins, Zh. Prikl. Khim. (Leningrad) 1973, 46, 907-9.
1974	ben	ana	0	Benson, G. C.; Anand, S. C.; Kiyohara, O., Thermodynamic properties of some cycloalkane + cycloalkanol systems at 298. 15 k: II, J. Chem. Eng. Data 1974, 19, 258.
1974	ber	bog	0	Bereznyak, N. G.; Bogoyavlenskii, I. V.; Karnazevich, L. V.; Sheinina, A. A., The phase equilibriua condiitions of the system hydrogen-deuterium in the temperature range from 14 to 20 K, Ukr. Fiz. Zh. 1974, 19, 472-481.
1974	bir	vij	0	Birdi, G. S.; Vij, J. N.; Mahl, B. S., Thermodynamics of binary mixtures excess gibbs free energies of 1,2- dibromoethane mixtures with benzene, cyclohexane, carbon tetrachloride and dioxane at 20c, Thermochim. Acta 1974, 10, 253.
1974	che	zwo	0	Chen, S. S.; Zwolinski, B. J., Excess Thermodynamic Functions of Binary Mixtures of Normal and Isomeric Alkanes (C5 and C6)., J. Chem. Soc., Faraday Trans. 2 1974, 70, 1133-42.
1974	chu	dan	0	Chubarov, G. A.; Danov, S. M.; Efremov, R. V., Liquid-vapour equilibrium in the methanol + methyl methacrylate system, Zh. Fiz. Khim. 1974, 48, 1047.
1974	chu	dru	0	Chun, K. W.; Drummond, J. C.; Davison, R. R., Vapor-liquid equilibrium of binary mixtures of triethylamine with propyl and isopropyl alcohol, J. Chem. Eng. Data 1974, 19, 142.
1974	gar	paz	0	Garcia, M.; Paz Andrade, M. I., Excess thermodynamic functions at 25.deg.. I. Diol-n-alcohol mixtures, An. Quim. 1974, 70, 489.
1974	glu	tar	0	Glukhareva, M. I.; Taravkova, E. N.; Chashchin, A. M.; Kushner, T. M.; Serafimov, L. A., Liquid-vapor phase equilibrium in the acetone + diethyl ketone, methyl ethyl ketone + diethyl ketone, and diethyl ketone + acetic acid systems at 760 torr., Tr. Inst. - Mosk. Inst. Tonkoi Khim. Tekhnol. im. M. V. Lomonosova 1974, 4, 86-9.
1974	gop	dak	0	Gopal, S. R.; Dakshinamurty, P.; Krishnamurty, R., Vapor-liquid equilibrium of the system: toluene + methyl isobutyl carbinol, Indian Chem. Manuf. 1974, 12, 17.
1974	gro	bal	0	Grolier, J.-P. E.; Ballet, D.; Viallard, A., Thermodynamics of Ester-Containing Mixtures. Excess Enthalpies and Excess Volumes for Alkyl Acetates and Alkyl Benzoates + Alkanes, + Benzene, + Toluene, + Ethylbenzene, J. Chem. Thermodyn. 1974, 6, 895.
1974	han	sub	0	Hanumantha Rao, G.; Subbarao, B. V., Isobaric vapor-liquid equilibria: chloroform + isopropanol, tertiary butanol + toluene, and tertiary butanol + trichloroethylene systems, Indian J. Technol. 1974, 12, 292-5.
1974	har	tho	0	Harsted, B. S.; Thomsen, E. S., Excess enthalpies from flow microcalorimetry: 2 excess enthalpies for carbon tetrachloride + n-hexane, + n-heptane, + n-octane, + n-hexadecane, + isooctane, and + neopentane, and of octamethylcyclot, J. Chem. Thermodyn. 1974, 6,

557-63.
1974 jac 2 Jackowski, A. W., Solid-liquid-vapor equilibrium in the benzene + cyclohexane system, Rocz. Chem. 1974, 48, 1517.
1974 jai yad 0 Jain, D. V. S.; Yadav, O. P., Vapour Pressures & Excess Gibbs Energies for the System Cyclohexane+Iso-octane (2,2,4-Trimethylpentane), Indian J. Chem. 1974, 12, 721.
1974 jai yad 1 Jain, D. V. S.; Yadav, O. P., Vapour pressures and excess gibbs energies for the binary mixtures of ethylbenzene with cyclohexane and carbon tetrachloride, Indian J. Chem. 1974, 12, 718.
1974 riv 0 Rivenq, F., Ebulliometry of mixtures of 1,2-dichloroethane + toluene, Bull. Soc. Chim. Fr. 1974, 2429-30.
1974 sas kon 0 Sassa, Y.; Konishi, R.; Katayama, T., Isothermal vapor-liquid equilibrium data of dmso solutions by total pressure method dmso + acetone, dmso + tetrahydrofuran, and dmso + ethyl acetate systems, J. Chem. Eng. Data 1974, 19, 44.
1974 sch 0 Schulte, H. W., Thesis, 1974.
1974 sur doj 0 Surovy, J.; Dojcansky, J., Dependence of the vapour pressure and activity coefficients on the composition of some two-component polar solvents, Chem. Zvesti 1974, 28, 313.
1974 tan mur 0 Tanaka, R.; Murakami, S.; Fujishiro, R., Excess enthalpies of mixing of a polar liquid + a nonpolar liquid at 298.15 k, J. Chem. Thermodyn. 1974, 6, 209-18.
1974 uki tan 0 Ukibe, H.; Tanaka, R.; Murakami, S.; Fujishiro, R., Excess enthalpies of n,n-dialkyl amides + cyclohexane, + benzene, and + toluene at 298.15 k, J. Chem. Thermodyn. 1974, 6, 201-6.
1974 van abb 0 Van Ness, H. C.; Abbott, M. M., Title, Int. DATA Ser. 1974, 2, 85-93.
1974 vos kom 0 Vostrikova, V. N.; Komarova, T. V.; Platonov, V. M.; Morozova, L. V.; Moiseeva, T. P.; Saenko, M. N.; Aerov, M. E., Liquid-vapor equilibrium in binary systems containing propene oxide, Zh. Prikl. Khim. (Leningrad) 1974, 47, 568.
1975 abb van 0 Abbott, M. M.; Van Ness, H. C., Vapor-liquid lequilibrium: part 3. data reduction with precise expressions for gE, AIChE J. 1975, 21, 62.
1975 bel bal 0 Belousov, V. P.; Balyakina, T. D.; Orlova, T. V., Russ. J. Phys. Chem. 1975, 49, 305.
1975 bis wil 0 Bissell, T. G.; Williamson, A. G., Vapor pressures and excess gibbs energies of n-hexane and of n-heptane + carbon tetrachloride and + chloroform at 298.15 K., J. Chem. Thermodyn. 1975, 7, 131-136.
1975 chu dru 0 Chun, K. W.; Drummond, J. C.; Smith, W. H.; Davison, R. R., Vapor-liquid equil. binary mixtures of butyl alcohols w/ triethylamine triethylamine, J. Chem. Eng. Data 1975, 20, 58.
1975 des osw 0 Deshpande, D. D.; Oswal, S. L., Thermodynamics of mixtures containing p-dioxane or tetrahydrofuran. 1. Excess Gibbs free energies and excess volumes, J. Chem. Thermodyn. 1975, 7, 155.
1975 gra wil 0 Gray, D. F.; Williamson, A. G., Enthalpies of mixing of dimethyl sulphide + carbon tetrachloride and dimethyl sulphide + chloroform, Aust. J. Chem. 1975, 28, 2299.
1975 han fen 2 Handa, Y. P.; Fenby, D. V., Calorimetric study of the deuterium isotope effect in liquid mixtures, J. Chim. Phys. Phys.-Chim. Biol. 1975, 72, 1235-40.
1975 lor smi 0 Lorimer, J. W.; Smith, B. C.; Smith, G. H., Total vapour pressures, thermodynamic excess functions and complex formation in binary liquid mixtures of some organic solvents and sulphur dioxide, J. Chem. Soc., Faraday Trans. 1 1975, 71, 2232-2250.
1975 man kor 0 Manczinger, J.; Kortuem, G., The thermodynamic mixing effect in the system water + n-methylacetamide, Z. Phys. Chem. (Munich) 1975, 95, 177-86.
1975 men con 0 Mentianu, D. C.; Constantin, E.; Gothard, F. A., Zh. Fiz. Khim. 1975, 49, 998.
1975 mur mar 0 Murray, R. S.; Martin, M. L., A continuous-dilution device for the measurement of static vapor pressures of binary liquid mixtures., J. Chem. Thermodyn. 1975, 7, 839-46.
1975 riv 0 Rivenq, F., Ebulliometry of the binary system tetrahydrofuran + toluene, Bull. Soc. Chim. Fr. 1975, 2433-4.
1975 sad mor 0 Sada, E.; Morisue, T., Isothermal vapor-liquid equilibrium data of isopropanol + water system, J. Chem. Eng. Jpn. 1975, 8, 191-195.
1975 sha abb 0 Shatas, J. P.; Abbott, M. M.; Van Ness, H. C., Excess thermodynamic functions for

				ternary systems: II chloroform + ethanol + n-heptane at 50c, J. Chem. Eng. Data 1975, 20, 406-9.
1975	shc	ten	1	Shcherbina, E. I.; Tenenbaum, A. E.; Gurarii, L. L., Zh. Fiz. Khim. 1975, 49, 516.
1975	str	svo	0	Strubl, K.; Svoboda, V.; Holub, R.; Pick, J., Liquid-vapour equilibrium in the benzene + n-propanol system, Collect. Czech. Chem. Commun. 1975, 40, 1647-56.
1975	tam	wis	0	Tamir, A.; Wisniak, J., Vapor-liquid equilibria of isobutanol + n-butanol and isopropanol + sec- butanol systems, J. Chem. Eng. Data 1975, 20, 391-2.
1975	tan	dar	0	Tanaka, R.; D'Arcy, P. J.; Benson, G. C., Application of a flow microcalorimeter to determine the excess enthalpies of binary mixtures of nonelectrolytes., Thermochim. Acta 1975, 11, 163-75.
1975	tri	ass	0	Tripathi, R. P.; Asselineau, L., Isobaric Vapor-Liquid Equilibria in Ternary System Benzene-n-Heptane- Acetonitrile from Binary t-x Measurements, J. Chem. Eng. Data 1975, 20, 33.
1975	ver	ver	0	Verlinde, J. R.; Verbeeck, R. M. H.; Thun, H. P., Density and vapour pressure of the propylene glycol + water system from 15 to 50c, Bull. Soc. Chim. Belg. 1975, 84, 1119.
1975	war	sur	0	Waradzin, W.; Surovy, J., Equilibrium data of the liquid-vapour systems containing acetone, vinyl acetate, crotonaldehyde, and acetic acid: I experimental data for isothermal binary systems processed by means of the wilson eq, Chem. Zvesti 1975, 29, 783.
1975	wis	tam	1	Wisniak, J.; Tamir, A., Vapor-liquid equilibria of sec-butanol + isobutanol, sec-butanol + tert- butanol, and isobutanol + tert-butanol systems, J. Chem. Eng. Data 1975, 20, 388-391.
1975	woy		0	Woycicki, W., Excess Enthalpies of Binary Mixtures Containin Unsaturated Aliphatic Hydrocarbons 1. n-Alkene + n-Alkane, J. Chem. Thermodyn. 1975, 7, 77.
1976	and	kom	0	Andreeva, N. G.; Komarova, L. F.; Garber, Yu. N.; Fedorenko, I. V., Zh. Prikl. Khim. (Leningrad) 1976, 49, 1155.
1976	ape	koh	0	Apelblat, A.; Kohler, F., Excess gibbs energy of methanol + propionic acid and of methanol + butyric acid, J. Chem. Thermodyn. 1976, 8, 749.
1976	ber	bou	0	Bernatova, S.; Boublik, T., Excess thermodynamic functions in the carbon disulfide-cyclopentane system system, Collect. Czech. Chem. Commun. 1976, 41, 1642.
1976	cho		0	Choudhury, M. K. D., Excess free energy of binary mixtures of n-butylamine with ethyl alcohol and n-propyl alcohol., Indian J. Chem., Sect. A: Inorg., Bio-inorg., Phys., Theor. Anal. Chem. 1976, 14, 553.
1976	chu	dan	0	Chubarov, G. A.; Danov, S. M.; Brovkina, G. V., Liquid-vapor equilibrium in the methyl alcohol + methyl acrylate, methyl acrylate + butyl alcohol, and butyl alcohol + butyl acrylate systems, Zh. Prikl. Khim. (Leningrad) 1976, 49, 1623-24.
1976	ell	wor	0	Elliott, K.; Wormald, C. J., A precision differential flow calorimeter: the excess enthalpy of benzene + cyclohexane between 280.15 k and 393.15 k., J. Chem. Thermodyn. 1976, 8, 881.
1976	fig	web	1	Figurski, G.; Weber, U., Wiss. Z. Univ. Rostock, Math.-Naturwiss. Reihe 1976, 25, 1067.
1976	gov	and	0	Govindaswamy, S.; Andiappan, A. N.; Lakshmanan, S. M., Isobaric vapor-liquid equilibrium data for the ternary and binary systems containing n-hexane(1) + benzene(2) + isopropanol(3)., J. Chem. Eng. Jpn. 1976, 9, 345.
1976	kar	gro	0	Karbalai Ghassemi, M. H.; Grolier, J.-P. E.; Kehiaian, H. V., Thermodynamics of binary mixtures containing alkenes: I enthalpies of mixing of n-alkenes with hydrocarbons and carbon tetrachloride, J. Chim. Phys. Phys.-Chim. Biol. 1976, 73, 925-34.
1976	mah	kon	0	Mahl, B. S.; Konner, Z. S.; Khurma, J. R., Thermochim. Acta 1976, 2, 256.
1976	mei	bro	0	Meijer, E. L.; Brouwer, N.; van Miltenburg, J. C., Vapour pressures and excess gibbs energy of the liquid mixture carbon tetrachloride + 1,1,1-trichloroethane, J. Chem. Thermodyn. 1976, 8, 703-8.
1976	nag	oht	1	Nagata, I.; Ohta, T.; Nakagawa, S., Excess gibbs free energy and heats of mixing for binary liquid mixtures of alcohols., J. Chem. Eng. Jpn. 1976, 9, 276.
1976	nak	ash	0	Nakanishi, K.; Ashitani, K.; Touhara, H., Excess Gibbs free energy and excess volume of methanol + pyridine, + 2-methylpyridine, and + 2,6-dimethylpyridine, J. Chem.

Thermodyn. 1976, 8, 121.
1976 ora 0 Oracz, P., Thesis, 1976.
1976 pau 0 Paul, R. N., Study of liquid-vapor equilibrium in improved equilibrium still, J. Chem. Eng. Data 1976, 21, 165-9.
1976 rad han 0 Radwan, M. H.; Hanna, A. A., Binary Azeotropes Containing Butyric Acid, J. Chem. Eng. Data 1976, 21, 285-8.
1976 rao rao 1 Rao, M. M. (see narasi m 1); Rao, B. V. S., Indian J. Technol. 1976, 14, 159.
1976 rav rao 0 Ravi Prasad, A.; Rao, K. V.; Chiranjivi, C., Indian Chem. Eng. 1976, 18, 47.
1976 val 0 Valent, V., Thesis, 1976.
1976 wol goe 0 Wolff, H.; Goetz, R., Vapor-Pressure-Isotope Effect in Variously Deuterated Ethanols and Ethyl Iodides, Z. Phys. Chem. (Munich) 1976, 102, 1.
1976 wol goe 2 Wolff, H.; Goetz, R.; Schiller, O., Vapor pressure studies on methyl iodide and trideuteromethyl iodide and their mixtures with n-hexane, Ber. Bunsen-Ges. Phys. Chem. 1976, 80, 1321-6.
1977 bag kat 1 Bagga, O. P.; Katyal, R. C.; Raju, K. S. N., Indian Chem. Eng. 1977, 19, 49.
1977 bou jad 0 Bougard, J.; Jadot, R., Isothermal Vapor-Liquid Equilibria for the System 1,2-Dichloropropane- Propanal, J. Chem. Eng. Data 1977, 22, 88.
1977 car mar 0 Carta, R.; Marrelli, L., Liquid-vapour equilibrium in systems containing 1,2-diaminoethane and an aromatic compound, Ann. Chim. (Rome) 1977, 67, 167.
1977 cha nag 0 Chandak, B. S.; Nageshwar, G. D.; Mene, P. S., Excess enthalpy, volume, and Gibbs free energy; and viscosity of acetonitrile-methyl cellosolve mixture, J. Appl. Chem. Biotechnol. 1977, 27, 437.
1977 cha nag 1 Chandak, B. S.; Nageshwar, G. D.; Mene, P. S., Vapor-liquid equilibria, excess enthalpy and volume and vis- cosity of n- propanol + methyl cellosolve., Indian J. Technol. 1977, 15, 146.
1977 des che 0 Desplanches, H.; Chevalier, J.-L.; Llinas, R., Thermodynamic study of acetonitrile + acetylenic hydrocarbons solutions, J. Chim. Phys. Phys.-Chim. Biol. 1977, 74, 259-265.
1977 doh hol 0 Dohnal, V.; Holub, R.; Pick, J., Vapour-liquid equilibrium in the methanol + acetonitrile system., Collect. Czech. Chem. Commun. 1977, 42, 1445.
1977 fil mar 0 Filippov, V. V.; Markuzin, N. P.; Sazonov, V. P., Liquid-vapor and liquid-liquid-vapor equilibrium in the systems nitromethane + water and water + hexyl alcohol, Zh. Prikl. Khim. (Leningrad) 1977, 50, 1321-4.
1977 gue bit 0 Guenzel, K.; Bittrich, H.-J., Z. Phys. Chem. (Leipzig) 1977, 258, 1073.
1977 hwa rob 0 Hwang, S.-C.; Robinson Jr., R. L., Vapor-Liquid Equilibria at 25 deg C for None Alcohol-Hydrocarbon Binary Systems, J. Chem. Eng. Data 1977, 22, 319-325.
1977 juz svo 0 Juza, J.; Svoboda, V.; Holub, R.; Pick, J., Phase Equilibria in the Methanol-Cyclohexene system, Collect. Czech. Chem. Commun. 1977, 42, 1453.
1977 kiy ben 1 Kiyohara, O.; Benson, G. C.; Grolier, J.-P. E., Thermodynamic properties of binary mixtures containing ketones I. Excess enthalpies of some aliphatic ketones + n-hexane, + benzene, and + tetrachloromethane, J. Chem. Thermodyn. 1977, 9, 315.
1977 kor val 0 Kortuem, G.; Valent, V., Thermodynamic mixing effects of the systems water(1) + 1,4-dioxane(2) and methanol(1) + 1,4-dioxane(2); a comparison, Ber. Bunsen-Ges. Phys. Chem. 1977, 81, 752-61.
1977 kum raj 0 Kumar, B.; Raju, K. S. N., Vapor-liquid equilibrium data for the systems 2-methoxyethanol + ethylbenzene, 2-methoxyethanol + p-xylene and 2-ethoxyethanol + p-xylene, J. Chem. Eng. Data 1977, 22, 134.
1977 lne wic 0 Lnenickova, J.; Wichterle, I., Vapour-liquid equilibrium in toluene + aliphatic c(4) alcohol systems, Collect. Czech. Chem. Commun. 1977, 42, 1907.
1977 mat mun 0 Matsuda, A.; Munakata, T.; Miyawaki, H.; Watanabe, T., Kagaku Kogaku Ronbunshu 1977, 3, 183.
1977 mat tou 0 Matsumoto, Y.; Touhara, H.; Nakanishi, K.; Watanabe, N., Molar excess enthalpies for water + ethanediol, + 1,2-propanediol, and + 1, 3-propanediol at 298.15 k, J. Chem. Thermodyn. 1977, 9, 801-5.

1977	mih	kir	0	Mihkelson, V.; Kirss, H.; Kudryavtseva, L. S.; Eisen, O. G., Fluid Phase Equilib. 1977, 1, 201.
1977	rao	vis	0	Rao, B. M.; Viswanath, D. S., J. Chem. Eng. Data 1977, 22, 36.
1977	ras	kie	0	Rasmussen, P.; Kierkegaard, L.; Fredenslund, A., Chemical Engineering with per Soltoft, 1977, 129.
1977	saz	fil	0	Sazonov, V. P.; Filippov, V. V., Vestn. Leningr. Univ., Ser. 4: Fiz. Khim. 1977, 10, 151.
1977	sch	qui	0	Schmelzer, J.; Quitzsch, K., Phase equilibrium studies on multicomponent systems: I isobaric liquid- vapor equilibrium in ternary system of methylethyl ketone + sec-butanol + diisobutene, Z. Phys. Chem. (Leipzig) 1977, 258, 646-56.
1977	tym	kle	0	Tyminski, B.; Klepanska, A., Inz. Chem. Procesowa 1977, 7, 193.
1977	vis	evd	1	Vishnyakov, M. V.; Evdokimov, S. B.; Nosovskii, Yu. E., Liquid-vapor equilibrium in the system n-butyl alcohol + diethylene glycol, Zh. Prikl. Khim. (Leningrad) 1977, 50, 667.
1977	wag	mal	0	Waghorn, G. W.; Malcolm, G. N.; Watson, I. D., Excess enthalpies of mixing of chloroform and carbon tetrachloride with tetrahydrothiophen and thiophen, Aust. J. Chem. 1977, 30, 237.
1977	war		1	Warycha, S., Vapour-liquid equilibria and excess gibbs free energy in binary systems of pyridine bases with aliphatic alcohols at 313.15 k (40.00 c): II alcohols with pyridine and 2-picoline, Z. Phys. Chem. (Leipzig) 1977, 258, 873.
1977	war		2	Warycha, S., Vapour-liquid equilibria and excess gibbs free energy in binary systems of pyridine bases with aliphatic alcohols at 313.15 k (40.00 c): II alcohols with pyridine and 2-picoline, Z. Phys. Chem. (Leipzig) 1977, 258, 873.
1978	abe	nak	0	Abe, J. I.; Nakanishi, K.; Touhara, H., Thermodynamic properties of aqueous solutions of hydrophilic compounds 1. pyridine and methylpyridines, J. Chem. Thermodyn. 1978, 10, 483.
1978	byk	gus	0	Bykhovskii, M. Y.; Guseinov, E. M.; Zhukova, T. V.; Avrutskii, M. M., Study of liquid-vapor equilibrium in the water-pyridine-.beta.-picoline system, Khim. -Farm. Zh. 1978, 12, 117.
1978	cle	hsu	0	Clever, H. L.; Hsu, K.-Y., The excess enthalpies of 16 aromatic hydrocarbon + nitroalkane mixtures at 298.15K, J. Chem. Thermodyn. 1978, 10, 213.
1978	hsu	cle	0	Hsu, K.-Y.; Clever, H. L., The excess enthalpies of benzene + and of 1,2,4-trimethylbenzene + 1- nitrobutane + 1-nitropentane, and + 1-nitrohexane at 298.15 k., J. Chem. Thermodyn. 1978, 10, 225-29.
1978	lai	doa	0	Lai, T. T.; Doan-Nguyen, T. H.; Vera, J. H.; Ratcliff, G. A., Prediction of heats of mixing of liquid mixtures containing alkane, chloroalkane and alcohol by an analytical group solution model., Can. J. Chem. Eng. 1978, 56, 358.
1978	mis	smi	0	Misheneva, I. N.; Smirnov, V. V.; Saraev, B. A.; Pavlov, S. Yu., Prom-st Sint. Kauch. 1978, 10, 2.
1978	nic	eck	0	Nicolaides, G. L.; Eckert, C. A., Experimental heats of mixing of some miscible and partially miscible nonelectrolyte systems, J. Chem. Eng. Data 1978, 23, 152-6.
1978	och	lu	0	Ochi, K.; Lu, B. C.-Y., Determination and Correlation of Binary Vapor-Liquid Equilibrium Data, Fluid Phase Equilib. 1978, 1, 185-200.
1978	raf	har	0	Rafflenbeul, L.; Hartmann, H., Chem.-Ing.-Tech. 1978, 7, 145.
1978	rag	rao	0	Raghavaiah, C. V.; Rao, G. H.; Raju, R. V. S.; Chiranjivi, C., Isobaric vapour-liquid equilibrium data for four binary systems, Indian J. Technol. 1978, 16, 165.
1978	rao	rao	2	Rao, M. N.; Rao, B. V. S., Indian J. Technol. 1978, 16, 338.
1978	wie	ste	0	Wieczorek, S. A.; Stecki, J., Vapor Pressures and Thermodynamic Properties of Hexan-1-ol and n-Hexane between 298.230 and 342.824 K, J. Chem. Thermodyn. 1978, 10, 177-86.
1978	yor	yos	0	Yorizane, M.; Yoshimura, S.; Masuoka, H.; Toyama, A.; Nokaka, Y.; Funada, I., Measurment and estimation of low temperature vapor-liquid equilibrium for the system oxygen + argon at high oxygen concentrations., Chem. Eng. Sci. 1978, 33, 641-9.
1979	ash	cla	0	Ashcroft, S. J.; Clayton, A. D.; Shearn, R. B., Isothermal vapor-liquid equilibriums for the systems toluene-n-heptane, toluene-propan-2-ol, toluene-sulfolane, and propan-2-ol-

sulfolane, J. Chem. Eng. Data 1979, 24, 195-199.

1979 bar dia 0 Barraza, R.; Diaz, S.; Edwards, J.; Tapia, P., Thermodynamics of the systems n-hexane/3-pentanone, n-hexane/3-pentanone and n-heptane/3-pentanone mixtures, Z. Phys. Chem. (Munich) 1979, 117, 43-54.

1979 cha nag 0 Chandak, B. S.; Nageshwar, G. D.; Mene, P. S., Excess gibbs free energy, enthalpy, and volume and viscosity of acetone-methyl cellosolve mixtures, J. Chem. Eng. Data 1979, 24, 267.

1979 chu gor 0 Churkin, V. N.; Gorshkov, V. A.; Pavlov, S. Yu.; Basner, M. F., Prom-st Sint. Kauch. 1979, 4, 2.

1979 goe sti 0 Goelles, F.; Still, F., Monatsh. Chem. 1979, 110, 177.

1979 ho dav 0 Ho, C. L.; Davison, R. R., Vapor-Liquid Equilibria for the Binary Systems n-Hexane with2-Methylpentane , 3-Methylpentane, and 2,4-Dimethylpentane, J. Chem. Eng. Data 1979, 24, 293-6.

1979 hrn mat 0 Hrncirik, J.; Matous, J.; Novak, J. P.; Sobr, J., Sb. Vys. Sk. Chem.-Technol. Praze, N: Fys. Chem. 1979, 3, 151.

1979 jim paz 0 Jimenez Cuesta, E.; Paz Andrade, M. I.; Casanova, C., Enthalpies and Volumes of Mixing of 1,2-Ethanediol + n-Alkanol, J. Chim. Phys. Phys.-Chim. Biol. 1979, 76, 46-50.

1979 mah khu 0 Mahl, B. S.; Khurma, J. R.; Dhillon, M. S.; Kooner, Z. S., Excess enthalpies and weak interactions of o-dichlorobenzene with aromatic hydrocarbons, Z. Phys. Chem. (Leipzig) 1979, 260, 309.

1979 mah smi 0 Maher, P. J.; Smith, B. D., Vapor-Liquid Equilibrium Data for Binary Systems of Chlorobenzene with Acetone, Acetonitrile, Ethyl Acetate, Ethylbenzene, Methanol and 1-Pentene, J. Chem. Eng. Data 1979, 24, 363-77.

1979 mal pat 0 Malanowski, S.; Patz, R.; Raetzsch, M. T.; Wohlfarth, C., Dielectric, electro-optical and thermodynamic investigation of binary mixtures formed by pyridine with hydrocarbons and chlorobenzene, Fluid Phase Equilib. 1979, 3, 291-312.

1979 mar fre 0 Marsh, K. N.; French, H. T.; Rogers, H. P. D., Excess Gibbs free energy for cyclohexane + nitromethane, + nitroethane, + 1-nitropropane, and + 2-nitropropane at 318.15 K., J. Chem. Thermodyn. 1979, 11, 897-903.

1979 mey giu 0 Meyer, R. J.; Giusti, G. L.; Meyer, M. F., Excess enthalpies of binary mixtures of a cyclic acetal + a solvent at 298. 15 k, J. Chem. Thermodyn. 1979, 11, 713-8.

1979 mey giu 1 Meyer, R. J.; Giusti, G. L.; Vincent, E.-J., Enthalpies of mixing of diethoxymethane with n-alkanes at 298.15 k., Thermochim. Acta 1979, 31, 262-6.

1979 mur kim 0 Murakami, S.; Kimura, F., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1979, 7(1), 31-40.

1979 plu mat 0 Plura, J.; Matous, J.; Novak, J. P.; Sobr, J., Liquid-vapor equilibrium. LXXXVIII. Vapor-liquid equilibrium in the methyl tert-butyl ether-n-hexane and methyl tert-butyl ether-toluene systems, Collect. Czech. Chem. Commun. 1979, 44, 3627-31.

1979 sim ver 0 Siman, J. E.; Vera, J. H., Heats of Mixing of Amine-Alcohol Systems. An Analytical Group Solution Model Approach., Can. J. Chem. Eng. 1979, 57, 355.

1979 sus 0 Suska, J., Chem. Prum. 1979, 29, 523.

1979 tan ben 0 Tanaka, R.; Benson, G. C., Excess enthalpies and volumes for binary mixtures of some chlorobenzenes at 298.15 K, J. Chem. Eng. Data 1979, 24, 37-9.

1979 tif koh 1 Tiffin, D. L.; Kohn, J. P.; Luks, K. D., Three-phase solid-liquid-vapor equilibria of the systems ethylene + cyclohexane, ethylene + trans-decalin, ethylene + benzene, and ethylene + 2 -methylnaphthalene, J. Chem. Eng. Data 1979, 24, 96-8.

1979 tre tre 0 Treszczanowicz, T.; Treszczanowicz, A. J., Vapor-Liquid Phase Equilibria of Binary Systems Formed by Pentane-1-ol and Alkanes, Bull. Acad. Pol. Sci.-Chim. 1979, 27, 689-95.

1979 wil pat 0 Wilson, S. R.; Patel, R. B.; Abbott, M. M.; Van Ness, H. C., Excess thermodynamic functions for ternary systems: 4 total-pressure data and excess gibbs function for acetonitrile + ethanol + water at 50 c, J. Chem. Eng. Data 1979, 24, 130.

1979 woy rhe 0 Woycicki, W.; Rhensius, P., J. Chem. Thermodyn. 1979, 11, 153-158.

1980	aco	rod	0	Acosta G., R.; Rodriguez R., E.; De La Guardia M., P., Isobaric vapor-liquid equilibriums for the methyltertbutyl ether-methanol and benzene-acetonitrile systems, Rev. Inst. Mex. Pet. 1980, 12, 40.
1980	ale	ale	0	Alessandrini, A.; Alessi, P.; Kikic, I., Heat of mixing of hydrocarbon + nitrile systems., Ann. Chim. (Rome) 1980, 70, 293.
1980	asm	gor	0	Asmanova, N.; Goral, M., Vapor pressures and excess gibbs energies in binary mixtures of hydrocarbons at 313.15 D. 1. methylcyclohexane-benzene, -toluene, -o- cylene, -p-xylene, -ethylbenzene, and -propylbenzene, J. Chem. Eng. Data 1980, 25, 159.
1980	bel	voh	0	Bellstedt, K.; Vohland, P.; Schuberth, H., The susceptibility of vapor-liquid equilibrium reactions of ethanol + water through urea (carbamide) at 60 c, Z. Phys. Chem. (Leipzig) 1980, 261, 297.
1980	dia	com	0	Diaz Pena, M.; Compostizo, A.; Crespo Colin, A.; Escudero, I., Activity coefficient and excess gibbs free energies at 348.15 k in cyclohexane + chlorobenzene, + fluorobenzene and + thiophene, J. Chem. Thermodyn. 1980, 12, 1051.
1980	dia	com	1	Diaz Pena, M.; Compostizo, A.; Crespo Colin, A., Excess gibbs free energy of n-heptane + a xylene at 348.15 k, J. Chem. Thermodyn. 1980, 12, 259.
1980	dia	cre	0	Diaz Pena, M.; Crespo Colin, A.; Compostizo, A.; Escudero, I., Liquid-vapor equilibria in binary systems formed by methylcyclohexane with chlorobenzene, fluorobenzene and thiophene, J. Chem. Eng. Data 1980, 25, 17.
1980	han	ben	1	Handa, Y. P.; Benson, G. C., Thermodynamic properties of binary liquid mixtues involving weak specific interactions: II excess enthalpies of binary mixtures of tetrachloroethene with some aromatic hydrocarbons at 298.15 k, Fluid Phase Equilib. 1980, 4, 269.
1980	kat		0	Kato, M., Activity coefficients of pseudo-ternary mixtures containing acetylacetone, its tautomers and organic solvents, Ind. Eng. Chem. Fundam. 1980, 19, 253-9.
1980	kri	tri	0	Krishna, S.; Tripathi, R. P.; Rawat, B. S., Isobaric Vapor-Liquid Equilibria of Binary Systems of Acetonitrile with Benzene, Toluene, and Methylcyclohexane, J. Chem. Eng. Data 1980, 25, 11-3.
1980	kum	kat	0	Kumar, A.; Katti, S. S., Excess Free Energy of Binary Mixtures of Isomeric Butanols With n-Heptane, Indian J. Chem. 1980, 19A, 795-797.
1980	kum	kat	1	Kumar, A.; Katti, S. S., Excess Free Energy of Binary Mixtures of Isomeric Butanols With n-Heptane, Indian J. Chem. 1980, 19A, 795-797.
1980	kuu	too	0	Kuus, M.; Toome, M.; Kudryavtseva, L. S.; Eisen, O. G., Thermodynamic Properties of the Mixture of n-Octane with Isomers of n-Octene 2. Vapor-Liquid Equilibria, Eesti NSV Tead. Akad. Toim., Keem., Geol. 1980, 29, 32.
1980	lam	mat	0	Lampa, J.; Matous, J.; Novak, J. P.; Pick, J., Liquid-vapour and liquid-liquid equilibria in the tetrahydrofuran(1) + n- hexane(2) + water(3) system, Collect. Czech. Chem. Commun. 1980, 45, 1159.
1980	mue	fig	0	Muehlenbruch, M.; Figurski, G., Z. Phys. Chem. (Leipzig) 1980, 261, 376.
1980	muh	fig	0	Muhlenbruch, M.; Figurski, G., Vapor-liquid equilibrium of a series of binary mixtures at 760 torr., Z. Phys. Chem. (Leipzig) 1980, 261, 376-83.
1980	oht	asa	0	Ohta, T.; Asano, H.; Nagata, I., Thermodynamic study of complex formation in four binary liquid mixtures containing chloroform, Fluid Phase Equilib. 1980, 4, 105-14.
1980	ora		0	Oracz, P., Unpublished data, 1980.
1980	oti	tom	0	Otin, S.; Tomas, G.; Peiro, J. M.; Velasco, I.; Gutierrez Losa, C., Thermodynamic properties of organic oxygen compounds excess enthalpies for some ester + hexane or 1-bromohexane and bromoester + hexane mixtures, J. Chem. Thermodyn. 1980, 12, 955-60.
1980	pei	gra	0	Peiro, J. M.; Gracia, M.; Gutierrez Losa, C., Excess enthalpies and excess volumes of bromoalkane + cyclohexane, J. Chem. Thermodyn. 1980, 12, 589-94.
1980	rao	rav	0	Rao, K. V.; Ravi Prasad, A.; Chiranjivi, C., Vapor-liquid equilibria of some n-alcohol + tetrechloroethene systems, Fluid Phase Equilib. 1980, 4, 293.
1980	sip	wie	0	Sipowska, J.; Wieczorek, S., Vapor Pressures and Excess Gibbs Free Energies of Propan-1-ol + n-Heptane Between 278.164 and 303.147 K, J. Chem. Thermodyn. 1980, 12, 459-64.

1980	sto	fre	0	Stokes, R. H.; French, H. T., Thermodynamic functions for the system ethanol + p-xylene from vapor pressures, enthalpies of mixing and volume of mixing and their interpretation in terms of association, J. Chem. Soc., Faraday Trans. 1 1980, 76, 537-548.
1980	svi	mal	0	Svitilova, M.; Malijevska, I.; Malijevsky, A.; Pick, J., Liquid-vapor equilibrium in strongly associating binary system propionic acid + cyclohexane., Collect. Czech. Chem. Commun. 1980, 45, 1748-53.
1980	vos	kom	1	Vostrikova, V. N.; Komarova, T. V.; Reshetov, S. A., Zh. Prikl. Khim. (Leningrad) 1980, 53, 2763.
1980	wag	ape	0	Wagner, M.; Apelblat, A.; Tamir, A., Excess gibbs free energy in methanol + acetic acid and ethanol + acetic acid, J. Chem. Thermodyn. 1980, 12, 181.
1980	wol	szy	0	Wolff, H.; Szydlowski, J.; Dill-Staffenberger, L., Vapor-liquid equilibriums of deuterioisomeric methanethiols and their mixtures with n-hexane, J. Chem. Thermodyn. 1980, 12, 641-52.
1981	ash	ver	0	Ashraf, F. A.; Vera, J. H., Can. J. Chem. Eng. 1981, 59, 89.
1981	ber	nea	0	Berro, C.; Neau, E.; Rogalski, M., Vapor-liquid equilibrium of the systems 1-propanol + 2,2,4- trimethylpentane and 2-propanol + n-hexane., Fluid Phase Equilib. 1981, 7, 41.
1981	cho	pal	0	Cholinski, J.; Palczewska-Tulinska, M.; Szafranski, A.; Wyrzykowska-Stankiewicz, D., Chem. Eng. Sci. 1981, 36, 173.
1981	chr	lan	0	Christian, S. D.; Lane, E. H.; Tucker, E. E., Liquid-vapor equilibrium of dilute aqueous solutions of methanol, J. Solution Chem. 1981, 10, 181.
1981	com	cas	0	Comelli, F.; Castellari, C.; Francesconi, R., J. Chem. Eng. Data 1981, 26, 334.
1981	fan	cen	0	Fang, S.; Cen, P.; Lu, Y.; Zhu, Z., The Measurement on Heat of Mixing for Systems Containig Aromatics by Dynamic Microcalorimeter, Zhejiang Daxue Xuebao 1981, 26, 8-20.
1981	lak	man	1	Lakhanpal, M. L.; Mandal, H. G.; Ahuja, S. C., Indian J. Chem., Sect. A: Inorg., Bio-inorg., Phys., Theor. Anal. Chem. 1981, 20, 1010.
1981	liu	dav	0	Liu, E. K.; Davison, R. R., Vapor-Liquid Equilibria for the Binary Systems n-Octane with 2-Methyl- pentane, 3-Methylpentane, and 2,4-Dimethylpentane, J. Chem. Eng. Data 1981, 26, 85.
1981	nag	tam	0	Nagata, I.; Tamura, K.; Tokuriki, S., Excess enthalpies and complex formation of acetonitrile with acetone, chloroform and benzene., Thermochim. Acta 1981, 47, 315-31.
1981	ols		0	Olson, J. D., Ebulliometric determination of PTx data and Ge for acetone + methyl acetate from 20 to 60 C, J. Chem. Eng. Data 1981, 26, 58.
1981	sch		1	Schuberth, H., Vap. liq. equil. of the systems Propionie acid and Heptan at 50 C system at 50 c., Z. Phys. Chem. (Leipzig) 1981, 262, 945-52.
1981	sha	how	0	Shanker, G.; Howat, C. S.; Torres, R. R.; Swift, G. W., Vapor-liquid equilibria for 2-methylbutene-1 and 2-methyl-1,3-butadiene at 310.93, 316.48 and 322.03 k, Fluid Phase Equilib. 1981, 5, 305-321.
1981	tam	ape	1	Tamir, A.; Apelblat, A.; Wagner, M., A new device for measuring isothermal vapor-liquid equilibria., Fluid Phase Equilib. 1981, 6, 237-59.
1982	ber	rog	0	Berro, C.; Rogalski, M.; Peneloux, A., A new ebulliometric technique. vapor-liquid equilibria in the binary systems ethanol + n-heptane and ethanol + n-nonane., Fluid Phase Equilib. 1982, 8, 55.
1982	cas	fra	0	Castellari, C.; Francesconi, R.; Comelli, F., Vapor-liquid equilibria in binary systems containing 1,3-di- oxolane at isobaric conditions: 3. binary mixtures of 1,3- dioxolane with o-, m-, and p-xylenes., J. Chem. Eng. Data 1982, 27, 156-158.
1982	doh	ves	0	Dohnal, V.; Vesely, F.; Vins, J., Liquid-vapour equilibrium and heats of mixing in the 1-propanol-acetonitrile system, Collect. Czech. Chem. Commun. 1982, 47, 3188.
1982	fer	mar	0	Ferino, I.; Marongiu, B.; Solinas, V.; Torrazza, S., Thermochim. Acta 1982, 57, 147-54.
1982	gro	ing	0	Grolier, J.-P. E.; Inglese, A.; Wilhelm, E., Excess enthalpies of binary systems of cyclic ether + cyclohexene., J. Chem. Eng. Data 1982, 27, 333.
1982	gut	kna	0	Gutsche, B.; Knapp, H., Isothermal measurements of vapor-liquid equilibriums for three n-alkane- chloroalkane mixtures, Fluid Phase Equilib. 1982, 8, 285-300.

1982	kim	ben	0	Kimura, F.; Benson, G. C., Excess enthalpies of binary mixtures of 2-ethyl-1-butanol with hexane isomers., Fluid Phase Equilib. 1982, 9, 99-104.
1982	kim	ben	1	Kimura, F.; Benson, G. C., Excess enthalpies of binary mixtures of 2-methyl-1-pentanol with hexane isomers., Fluid Phase Equilib. 1982, 9, 107-12.
1982	mac	ras	0	Macedo, E. A.; Rasmussen, P., Vapor-Liquid Equilibrium for the Binary Systems Ethyl Acetate-Acetic Acid and Ethyl Propionate-Propionic Acid, J. Chem. Eng. Data 1982, 27, 463.
1982	men	gre	0	Mentzer, R. A.; Greenkorn, R. A.; Chao, K.-C., Bubble pressures and vapor-liquid equilibria for four binary hydrocarbon mixtures, J. Chem. Thermodyn. 1982, 14, 817.
1982	nag	oga	0	Nagata, I.; Ogasawara, Y., Thermochim. Acta 1982, 52, 155-68.
1982	sch	ale	0	Schmelzer, J.; Alekseeva, M. V., Chem. Tech. (Leipzig) 1982, 34, 424.
1982	tho	new	0	Thomas, E. R.; Newman, B. A.; Nicolaides, G. L.; Eckert, C. A., Limiting activity coefficients from differential ebulliometry., J. Chem. Eng. Data 1982, 27, 233-40.
1982	tho	new	1	Thomas, E. R.; Newman, B. A.; Long, T. C.; Wood, D. A.; Eckert, C. A., Limiting activity coefficents of nonpolar and polar solutes in both volatile and nonvolatile solvents by gas chromatography., J. Chem. Eng. Data 1982, 27, 399-405.
1982	wan	tan	1	Wang, K.; Tang, D.; Hu, Y., Study on the Isothermal Vapor Liquid Equilibrium of Acetone-Water Binary System over the Temperature range 25-55 C, Huadong Huagong Xueyuan Xuebao 1982, 8, 387-402.
1983	ban	val	0	Banos, I.; Valero, J.; Gracia, M.; Gutierrez Losa, C., Conformational Equilibrium and Calorimetric Behavior of Systems Containing 1,2-dichloroethane, Ber. Bunsen-Ges. Phys. Chem. 1983, 87, 866.
1983	fre		0	French, H. T., Thermodynamic Functions of the Systems 1-Butanol, 2-Butanol, and t-Butanol + Cyclohexane, J. Solution Chem. 1983, 12, 869.
1983	gon	van	1	Gonzalez, C.; Van Ness, H. C., Excess thermodynamic functions for ternary systems: 9. total- pressure data and the excess gibbs function for water + ethylene glycol + ethanol at 50 c., J. Chem. Eng. Data 1983, 28, 410.
1983	ing	fer	0	Inglese, A.; Ferino, I.; Marongiu, B.; Solinas, V.; Torrazza, S., Thermodynamic properties of aqueous nonelectrolyte mixtures. excess enthalpies of water + cyclic ether mixtures at 298.15 k, Thermochim. Acta 1983, 65, 169-77.
1983	ked	sem	0	Kedrina, N. N.; Semenov, L. V.; Gaile, A. A.; Bispen, T. A., Russ. J. Phys. Chem. 1983, 57, 1776-8.
1983	khu	mut	1	Khurma, J. R.; Muthu, O.; Munjal, S.; Smith, B. D., Total-pressure vapor-liquid equilibrium data for binary systems of 1-chlorobutane with ethyl acetate, acetonitrild, nitromethane, and acetone, J. Chem. Eng. Data 1983, 28, 86.
1983	khu	mut	2	Khurma, J. R.; Muthu, O.; Munjal, S.; Smith, B. D., Total-pressure vapor-liquid equilibruim data for binary sys- tems of chlorobenzene with nitromethane, ethanol, benzene, and 1-chlorobutane., J. Chem. Eng. Data 1983, 28, 100-107.
1983	kim	dar	0	Kimura, F.; D'Arcy, P. J.; Benson, G. C., Excess Enthalpies and Heat Capacities for (Di-n-Propyl Ether and n-Heptane), J. Chem. Thermodyn. 1983, 15, 511-6.
1983	let	hey	0	Letcher, T. M.; Heyward, C.; Spiteri, W. L., The excess molar enthalpies of cyclopentane + each of six n-alkanes at two temperatures., J. Chem. Thermodyn. 1983, 15, 395-6.
1983	lin		0	Linek, J., Isothermal and Isobaric Vapor-Liquid Equilibrium Data in the Tetrachloromethan-Sec-Butyl Alcohol System, Collect. Czech. Chem. Commun. 1983, 48, 2446-53.
1983	lin		1	Linek, J., Isothermal and Isobric Vapor-Liquid Equilibrium Data in the Tetrachloromethane-n-Butyl Alcohol System, Collect. Czech. Chem. Commun. 1983, 48, 2879-87.
1983	nat	ben	0	Nath, A.; Bender, E., Isothermal vapor-liquid equilibria of binary and ternary mixtures containing alcohol, alkanolamine, and water with a new static device., J. Chem. Eng. Data 1983, 28, 370-5.
1983	nis	kai	0	Nissema, A.; Kaivamo, T.; Karvo, M., Thermodynamic properties of binary and ternary systems XII. Excess enthalpies of cyclohexane + p-xylene, p-xylene + dimethylsulfoxide, and dimethylsulfoxide + cyclohexane + p-xylene., J. Chem.

Thermodyn. 1983, 15, 1083-1086.
1983 oht kin 0 Ohta, T.; Kinoshita, T.; Nagata, I., Isothermal vapor-liquid equilibria for six binary mixtures., J. Chem. Eng. Data 1983, 28, 36-9.
1983 rat sur 0 Rath, P.; Suryanarayana, A.; Naik, S. C., J. Inst. Eng. (India), Part CH 1983, 64, 6.
1983 rub ren 0 Rubio, R. G.; Renuncio, J. A. R.; Diaz Pena, M., Vapor-liquid equilibrium of (methanol + a heptanone) at 298.15 K, J. Chem. Thermodyn. 1983, 15, 779-83.
1983 tam dra 0 Tamir, A.; Dragoescu, C.; Apelblat, A.; Wisniak, J., Heats of vaporization and vapor-liquid equilibria in associated solutions containing formic acid, acetic acid, propionic acid and carbon tetrachloride., Fluid Phase Equilib. 1983, 10, 9-42.
1983 tri 0 Triday, J. O., Vapor-liquid equilibria in binary systems formed by thiophene and light alcohols., J. Chem. Eng. Data 1983, 28, 307-10.
1983 val gra 0 Valero, J.; Gracia, M.; Gutierrez Losa, C., Excess molar enthalpies of some nitrile + alkane mixtures., J. Chem. Thermodyn. 1983, 15, 985-8.
1983 vil 0 VillaRivera, J. E., Thesis, 1983.
1983 wol sha 0 Wolff, H.; Shadiakhy, A., The vapour-pressure behaviour and the association of isomeric propylamines and N-deuteriopropylamines in mixtures with n-hexane, Fluid Phase Equilib. 1983, 11, 267-87.
1983 zon yan 0 Zong, Z. L.; Yang, X. H.; Zheng, X. Y., J. Chem. Eng. Jpn. 1983, 16, 1.
1984 azi roy 0 Azipiazu, Y.; Royo, F.; Gutierrez Losa, C., Vapour pressures of tetrachloromethane + alpha,omega- dichloroalkane., J. Chem. Thermodyn. 1984, 16, 561.
1984 azp roy 0 Azpiazu, Y.; Royo, F.; Losa, C. G., Vapour pressures of (tetrachloromethane + a,o-dichloroalkane), J. Chem. Thermodyn. 1984, 16, 161-5.
1984 cas fra 0 Castellari, C.; Francesconi, R.; Comelli, F., J. Chem. Eng. Data 1984, 29, 126.
1984 chr gme 1 Christensen, C.; Gmehling, J.; Rasmussen, P.; Weidlich, U., Heats of Mixture Data Collection, Vol. III, DECHEMA Chemistry Data Series, Frankfurt/Main, 1984.
1984 eng san 0 Eng, R.; Sandler, S. I., Vapor-liquid equilibria for three aldehyde/hydrocarbon mixtures, J. Chem. Eng. Data 1984, 29, 156.
1984 fuc kre 0 Fuchs, R.; Krenzer, L.; Gaube, J., Excess properties of binary mixtures composed of a polar component and an alkane, Ber. Bunsen-Ges. Phys. Chem. 1984, 88, 642.
1984 hul lu 0 Hull, D. M.; Lu, B. C.-Y., Vapor-liquid equilibria in mixtures of cyclohexane and methyl methacrylate, J. Chem. Eng. Data 1984, 29, 417-9.
1984 lar ban 0 Lark, B. S.; Banipal, T. S.; Singh, S.; Palta, R. C., Excess gibbs energy for binary mixtures containing carboxylic acids: I. excess gibbs energy for acetic acid + cyclohexane, + benzene, and n- heptane., J. Chem. Eng. Data 1984, 29, 277-280.
1984 mar all 0 Marsh, K. N.; Allan, W. A.; Richards, A. E., Excess enthalpies and excess volumes of 1-nitropropane +, and 2- nitropropane +, each of several non-polar liquids, J. Chem. Thermodyn. 1984, 16, 1107-1120.
1984 nag 0 Nagashima, A., Measurement and critical evaluation of thermophysical properties of fluids, Oyo Butsuri 1984, 53, 934.
1984 nor tuc 0 Nord, L.; Tucker, E. E.; Christian, S. D., Liquid-vapor equilibrium of dilute aqueous solutions of ethanol and 2-propanol, J. Solution Chem. 1984, 13, 849.
1984 paz sar 0 Paz Andrade, M. I.; Sarmiento, F., Int. DATA Ser., Sel. Data Mixtures, Ser. A 1984, 110-4.
1984 rat pal 0 Ratkovics, F.; Palagyi-Fenyes, B., The effects of keto-enol tautomerism on the properties of methylethylketone + benzene mixtures, Fluid Phase Equilib. 1984, 16, 99-116.
1984 rat par 0 Ratkovics, F.; Parragi, M. L., Some characteristic properties of cyclohexanone + tetrahydrofuran mixtures., Magy. Kem. Foly. 1984, 90, 28.
1984 sin nig 1 Singh, P. P.; Nigam, R. K.; Sharma, V. K., Molar excess volumes and molar excess enthalpies of methylenebromide + aromatic hydrocarbon mixtures, Fluid Phase Equilib. 1984, 18, 313-31.
1984 vil all 1 Villamanan, M. A.; Allawi, A. J.; Van Ness, H. C., Excess thermodynamic functions for ternary systems: 11. total-pressure data and ge for ethylene glycol + acetone + water and for ethylene glycol + acetonitrile + water at 50 c., J. Chem. Eng. Data 1984, 29, 293.

1984	vil	all	2	Villamanan, M. A.; Allawi, A. J.; Van Ness, H. C., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1984, 12(1), 31-37.
1985	cha	kat	1	Chaudhari, S. K.; Katti, S. S., Vapor liquid equilibria and excess volumes of toluene-ethylenediamin binary system, Indian J. Technol. 1985, 23, 74.
1985	chi	mar	0	Chianese, A.; Marrelli, L., Isobaric vapor-liquid equilibria of the ethylbenzene-p-xylene system., J. Chem. Eng. Data 1985, 30, 424.
1985	dai	cha	1	Dai, M.; Chao, J. P., Fluid Phase Equilib. 1985, 23, 315-19.
1985	fer	ber	0	Fernandez, J.; Berro, C.; Paz Andrade, M. I., Fluid Phase Equilib. 1985, 20, 145.
1985	fra	com	3	Francesconi, R.; Comelli, F., Isobaric vapor-liquid equilibria in binary systems containing 1,3-dioxolane. The system 1,3-dioxolane-chlorobenzene, J. Chem. Eng. Data 1985, 30, 352.
1985	gie	rog	0	Gierycz, P.; Rogalski, M.; Malanowski, S., Vapor-liquid equilibria in binary systems formed by N-methylpyrrolidone with hydrocarbons and hydroxyl derivatives, Fluid Phase Equilib. 1985, 22, 107-22.
1985	gme		0	Gmehling, J., VLE Data for the Design of Separation Processes, AIChE Symp. Ser. 1985, 81, 121-129.
1985	he	wu	0	He, L.; Wu, Z.; Hou, Y., The Measurement and calculation of Vapor-Liquid Equilibria for the System of Sulfolane-, Chemical Engineering (China) 1985, 46-49.
1985	how	swi	1	Howat, C. S.; Swift, G. W., Vapor-Liquid Phase Equilibria for the Isoprene-n-Pentane Binary System from 300 to 330 K, Fluid Phase Equilib. 1985, 21, 113.
1985	kie	bit	0	Kietz, E.; Bittrich, H.-J.; Hauthal, W. H., Z. Phys. Chem. (Leipzig) 1985, 266, 281.
1985	kre	mai	0	Krevor, D. H.; Maixner, S. O.; Prausnitz, J. M., Vapor-liquid equilibrium data for the binary systems aniline/metacresol and ethyl propionate/propanoic acid, AIChE Symp. Ser. 1985, 81, 65-73.
1985	mac	bou	0	Machat, V.; Boublik, T., Vapour-liquid equilibrium and excess molar volume of (trans-1,2-dichloroethene + cyclopentane) at 293.15 K, J. Chem. Thermodyn. 1985, 17, 887.
1985	mar		9	Marsh, K. N., Excess enthalpies and excess volumes of nitromethane +, and nitroethane + each of several non-polar liquids, J. Chem. Thermodyn. 1985, 17, 29-42.
1985	mar		6	Marongiu, B., Thermochim. Acta 1985, 95, 105-110.
1985	mat	ben	0	Mato, F.; Benito, G. G., Liquid-Vapor Equilibrium of Binary Mixtures of Nitriles and Alcohols. I., An. Quim., A 1985, 81, 116.
1985	mat	gon	0	Mato, F.; Gonzalez Benito, G., Vapor-liquid equilibria of binary mixtures of nitriles and alcohols. I, An. Quim., A 1985, 81, 116.
1985	mat	gon	1	Mato, F.; Gonzalez Benito, G., Vapor-liquid equilibria of binary mixtures of nitriles and alcohols. I, An. Quim., A 1985, 81, 116.
1985	oti	tol	1	Otin, S.; Toledo, M. J.; Munoz, J.; Fornies, J. M.; Velasco, I.; Gutierrez Losa, C., Fluid Phase Equilib. 1985, 20, 131-5.
1985	ouy	wan	1	Ouyang, F.; Wang, G.; Gao, W., Determination and correlation of liquid-liquid equilibrium data for ternary water-ethyl acetate-acetic acid and water-butyl acetate-acetic acid systems, Huagong Xuebao 1985, 110.
1985	per	gra	0	Perez, P.; Gracia, M.; Gutierrez Losa, C., HmE and VmE for (2,2-dimethylbutane or 2-chloro-2-methylpropane + a monoalcohol), J. Chem. Thermodyn. 1985, 17, 1067.
1985	red	rao	3	Reddy, K. D.; Rao, M. V. P.; Ramakrishna, M., Bubble-point data for the systems: bromobenzene(1)-nitrobezene(2) and bromobenzene(1)-2-nitrotoluene(2) at 200 and at 700 mm Hg, Phys. Chem. Liq. 1985, 14, 199.
1985	rod	paz	0	Rodriguez-Nunez, E.; Paz Andrade, M. I.; Jimenez Cuesta, E.; Bravo, R., Thermodynamic properties of (a xylene + an n-alkanol) Excess molar enthalpies at 298.15 K for 1-propanol, 1-butanol, and 1-pentanol, J. Chem. Thermodyn. 1985, 17, 23-8.
1985	rog		1	Rogalski, M., Vapour pressures and excess Gibbs energies of (2-methylpyridine + methylbenzene), (2,4-dimethylpyridine + 1,2-dimethylbenzene), and (2,6-dimethylpyridine + 1,2- or 1,3- or 1,4-dimethylbenzene or, J. Chem. Thermodyn. 1985, 17, 1045.
1985	ses	mir	0	Seselkin, I. V.; Mironenko, V. F.; Garber, Yu. N., Phase equilibria in systems of formates with isobutyl alcohol, Zh. Prikl. Khim. (Leningrad) 1985, 58, 696.

1985	tou	nak	0	Touhara, H.; Nakanishi, K., Excess molar enthalpies of methanol + pyridine, + methylpyridine, an + 2,6-dimethylpyridine, J. Chem. Thermodyn. 1985, 17, 909.
1985	wol	sch	0	Wolff, H.; Schiller, O., The vapour pressure behaviour and the association of n-methylethylamine, diethylamine, and their n-deuterioanalogues in mixtures with n-hexane, Fluid Phase Equilib. 1985, 22, 185-207.
1986	kas	kna	1	Kassmann, K. D. ; Knapp, H., Fluid Phase Equilib. 1986, 29, 241.
1986	kok		1	Kokkonen, P., J. Chem. Thermodyn. 1986, 18, 761-4.
1986	kra	koc	0	Kramer, U.; Kocak, M.; Steiger, A.; Becker, F., Excess Enthalpies of Binary Liquid Mixtures Containing Oxiranes Part 1: HE (298.15 K, 101.3 kPa) of the Four Systems Chloromethyl- and Bromomethyl-Oxirane + n-Hexane and n-Heptane, Ber. Bunsen-Ges. Phys. Chem. 1986, 90, 521-525.
1986	ort	pen	0	Ortega, J.; Pena, J. A.; de Alfonso, C., Isobaric Vapor-Liquid Equilibria of Ethyl Acetate + Ethanol Mixtures at 760 +- 0.5mmHg, J. Chem. Eng. Data 1986, 31, 339.
1986	ort	pen	1	Ortega, J.; Pena, J. A.; de Alfonso, C., Isobaric vapor-liquid equilibria for the ethyl acetate systems with n-propanol and n-butanol, Rev. Latinoam. Ing. Quim. Quim. Apl. 1986, 16, 317.
1986	osh	sto	0	O'Shea, S. J.; Stokes, R. H., J. Chem. Thermodyn. 1986, 18, 691-6.
1986	osw	sch	0	Oswald, G.; Schmittecker, B.; Wagner, D.; Lichtenthaler, R. N., Excess enthalpies and excess volumes of alkanol + n-heptane mixtures at high pressures, Fluid Phase Equilib. 1986, 27, 119.
1986	sag	lau	0	Sagert, N. H.; Lau, D. W. P., Limiting Activity Coefficients for Butyl Alcohols in Water, n-Octane, and Carbon Tettrachloride, J. Chem. Eng. Data 1986, 31, 475-8.
1986	she	bau	0	Shealy, G. S.; Bauer, T. J.; Hauschild, T.; Sandler, S. I.; Kassmann, K. D. ; Knapp, H., Vapor-Liquid Equilibrium of Binary and Ternary Mixtures of Isobtyraldehyde/Ethyl Acetate/N,N-Dimethylformamide, J. Chem. Eng. Data 1986, 31, 457.
1986	zha	wan	0	Zhao, C.; Wang, S.; Han, L., Prediction of Salt Effect of VLE, Chemical Engineering(China) 1986, 71-77.
1987	bag	rat	0	Bagga, O. P.; Rattan, V. K.; Singh, S.; Sethi, B. P. S.; Raju, K. S. N., Isobaric Vapor-Liquid Equilibria for Binary Mixtures of Ethylbenzene and p-Xylene with Dimethylformamide, J. Chem. Eng. Data 1987, 32, 198.
1987	bao	you	0	Bao, J.; You, Y.; Xie, Y.; Hu, Y., A Teflon Isothermal Dilution Calorimeter, Acta Phys. Chim. Sin. 1987, 3, 534-538.
1987	bec	hal	0	Becker, F.; Hallauer, F., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1987, 15(4), 229-237.
1987	dah	sin	0	Dahiya, H. P.; Singh, P. P.; Dagar, S., Thermodynamics of molecular interactions in aromatic hydrocarbons + o-chlorotoluene mixtures, Fluid Phase Equilib. 1987, 33, 191.
1987	fer	ber	0	Fernandez, J.; Berro, C.; Peneloux, A., Excess Gibbs Energies and Excess Volumes of Some Alcohol-Methyl Ester Binary Mixtures, J. Chem. Eng. Data 1987, 32, 17.
1987	gar	cob	0	Garcia, I.; Cobos, J. C.; Gonzalez, J. A.; Casanova, C., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1987, 15(3), 164-173.
1987	gau	kre	0	Gaube, J.; Krenzer, L.; Olf, G.; Wendel, R., Vapour-liquid equilibria measurements for some binary mixtures showing partial miscibility, Fluid Phase Equilib. 1987, 35, 279-89.
1987	hau	wu	0	Hauschild, T.; Wu, H. S.; Sandler, S. I., Vapor-Liquid Equilibrium of the Mixtures 2-Furaldehyde/1-Butanol and 2-Furaldehyde/4-methyl-2-pentanone, J. Chem. Eng. Data 1987, 32, 226.
1987	mun	oti	0	Munoz-Embid, J.; Otin, S.; Velasco, I.; Gutierrez-Losa, C., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1987, 15(2), 105-134.
1987	ni	wan	0	Ni, X.; Wang, Z., Studies on VLE of Carbinol-Furfural-Water-Aceticacid, Chemical Engineering (China) 1987, 50;58.
1987	ora	kol	0	Oracz, P.; Kolasinska, G, Vapour-liquid equilibria-III. total vapour pressure measurements for binary mixtures of methanol, ethanol, 1-propanol and 1-butanol with benzene, toluene and p-xylene at 313.15 K, Fluid Phase Equilib. 1987, 35, 253.
1987	ort	oco	0	Ortega, J.; Ocon, J.; Pena, J. A.; De Alfonso, C.; Paz-Andrade, M. I.; Fernandez, J., Vapor-Liquid Equilibrium of the Binary Mixtures CnH2n+2(OH) (n=2,3,4) + Propyl Ethanoate and + Ethyl Propanoate, Can. J. Chem. Eng. 1987, 65, 982-990.

1987	ort	pen	0	Ortega, J.; Pena, J. A.; de Alfonso, C., Vapor-liquid equilibrium at 101.32 kPa for the binary systems of alcohols CnH2n+1(OH) (n = 2, 3, 4) + butyl acetate and + ethyl butanoate, Rev. Latinoam. Ing. Quim. Quim. Apl. 1987, 17, 195.
1987	par	per	0	Pardo, J.; Perez, P.; Royo, F. M.; Gracia, M.; Gutierrez Losa, C., Excess molar enthalpies, volumes and free energies of tetrachloroethene + hexane system at several temperatures, J. Chem. Thermodyn. 1987, 19, 521-6.
1987	rug	gas	0	Rugina, T.; Gaspar, M.; Sacarescu, L., Liquid-vapor equilibrium for a binary system of dichlorodimethyl-silane with trichloromethylsilane, chloromethylsilane and silicontetrachloride., Rev. Chim. (Bucharest) 1987, 38, 680.
1987	rui	roy	0	Ruiz, B.; Royo, F. M.; Gracia, M.; Gutierrez Losa, C., Excess molar enthalpies, HmE, of (1,2-dibromopropane + cyclohexane o benzene or tetrachloromethane) at several temperatures, J. Chem. Thermodyn. 1987, 19, 261.
1987	ves	doh	0	Vesely, F.; Dohnal, V.; Brich, Z., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1987, 15(3), 179-182.
1987	vil	lan	0	Vilcu, R.; Langshaw, V.; Genuse, Z., Rev. Roum. Chim. 1987, 32, 1025.
1987	wil	wil	0	Wilding, W. V.; Wilson, L. C.; Wilson, G. M., Vapor-liquid equilibrium measurements on five binary mixtures, Fluid Phase Equilib. 1987, 36, 67.
1987	wil	wil	2	Wilding, W. V.; Wilson, L. C.; Wilson, G. M., Vapor-Liquid Equilibrium Measurements on Ten Binary Systems of Industrial Interest, AIChE Symp. Ser. 1987, 83, 49-69.
1988	ace	pos	1	Acevedo, I. L.; Postigo, M. A.; Katz, M., Excess thermodynamic properties and vapor-liquid equilibrium data fo the n-butylamine + p-dioxane system at 25.degree.C, J. Solution Chem. 1988, 17, 977.
1988	cas	fra	0	Castellari, C.; Francesconi, R.; Comelli, F.; Gracia, M.; Gutierrez Losa, C., Vapor-liquid equilibrium, excess gibbs energy and excess enthalpy of 1,3 dioxolane-methylcyclohexane at T = 313.15 K, Can. J. Chem. Eng. 1988, 66, 131.
1988	com	fra	0	Comelli, F.; Francesconi, R.; Arcelli, A., Isobaric vapor-liquid equilibrium and liquid-phase enthalpy of mixin data for the binary mixtures of m- or p-xylene with cyclohexanol, Can. J. Chem. Eng. 1988, 66, 644.
1988	coo	mor	0	Cooney, A.; Morcom, K. W., Thermodynamic begaviour of mixtures containing fluoroalcohols 1. (water + 2,2,2-trifluoroethanol), J. Chem. Thermodyn. 1988, 20, 735-41.
1988	des	osw	0	Deshpande, D. D.; Oswal, S. L., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1988, 16(1), 7-36.
1988	elk	whi	0	Elkabule, A. S.; Whitman, D. L.; Miller, R. C., Excess molar enthalpies of (toluene + n-heptane) and (toluene + methylcylcohexane) using a new variable-volume dilution calorimeter, J. Chem. Thermodyn. 1988, 20, 615-620.
1988	jos	mic	0	Jose, J.; Michou-Saucet, C.; Michou-Saucet, M.-A., Int. DATA Ser., Sel. Data Mixtures, Ser. A 1988, 37-42.
1988	let	tay	0	Letcher, T. M.; Taylor, S.; Baxter, R., Excess molar enthalpies of (a cycloalkane + an alk-1-yne) at 298.15K, J. Chem. Thermodyn. 1988, 20, 1265.
1988	lop	per	0	Lopez, J. A.; Perez, P.; Gracia, M.; Gutierrez Losa, C., GEm(298.15 K) of Mistures Containing 1,2-Dichloroethane, J. Chem. Thermodyn. 1988, 20, 447-51.
1988	mac	fra	0	Maciel, M. R. W.; Francesconi, Artur Zaghini, Excess Gibbs free energies of (n-hexane + propan-1-ol) at 338.15 and 348.15 K and of (n-hexane + propan-2-ol) at 323.15, 338.15, and 348.15, J. Chem. Thermodyn. 1988, 20, 539.
1988	mac	lin	0	Machova, I.; Linek, J.; Wichterle, I., Vapour-liquid equilibria in the heptane - 1-penthanol and heptane-3-methyl-1--butanol systems at 75, 85 and 95 Celcius, Fluid Phase Equilib. 1988, 41, 257-67.
1988	raj	ren	0	Rajendran, M.; Renganarayanan, S.; Madhavan, P. R.; Srinivasan, D., Chem. Eng. Commun. 1988, 74, 179.
1988	ram	kri	3	Ramanjaneyulu, K.; Krishnaiah, A.; Ramakrishna, M., Isobaric vapor-liquid equilibria of methyl ethyl ketone (1) + o-dichlorobenzene (2), + bromobenzene (2), and + nitrobenzene (2), J. Chem. Eng. Data 1988, 33, 251.
1988	van	now	0	Van Nhu, N.; Nowak, G.; Svejda, P., Ber. Bunsen-Ges. Phys. Chem. 1988, 92, 1537.
1988	wis	tam	2	Wisniak, J.; Tamir, A., Vapor-Liquid Equilibrim at 760 mmHg in the System Methanol-

1,1-Dichloroethane, J. Chem. Eng. Data 1988, 33, 109.

1989	ami	leg	0	Amigo, A.; Legido, J. L.; Bravo, R.; Paz Andrade, M. I., Excess molar enthalpies of (heptan-1-ol + an n-alkane) at 298.15 an 308.15 K, J. Chem. Thermodyn. 1989, 21, 1207.
1989	cep	gon	0	Cepeda, E.; Gonzalez, C.; Resa, J. M., Isobaric vapor-Liquid Equilibrium for the Cumene-Phenol System, J. Chem. Eng. Data 1989, 34, 270.
1989	cha	dai	0	Chao, J. P.; Dai, M.; Wang, Y. X., Studies of thermodynamic properties of binary mixtures containing a alcohol. XII. Excess molar enthalpies of an (alkan-1-ol + N,N-dimethylformamide or dimethyl sulfoxide) at 298.15 K, J. Chem. Thermodyn. 1989, 21, 1169-1175.
1989	cha	dai	2	Chao, J. P.; Dai, M.; Wang, Y. X., Studies of thermodynamic properties of binary mixtures containing a alcohol. XII. Excess molar enthalpies of an (alkan-1-ol + N,N-dimethylformamide or dimethyl sulfoxide) at 298.15 K, J. Chem. Thermodyn. 1989, 21, 1169-1175.
1989	com		0	Comelli, F., Heat of mixing for 1,3-dioxolane - methyl ethyl ketone system, Chim. Ind. (Milan, Italy) 1989, 71, 70.
1989	com	fra	0	Comelli, F.; Francesconi, R.; Castellari, C., Liq.-phase enthalpy of mixing for binary mixture with associated component. The mixture of 1,3-dioxolane-acid acid, J. Chem. Eng. Data 1989, 34, 284.
1989	fre		0	French, H. T., Excess Enthalpies of (Acetone + Water) at 278.15, 288.15, 298.15, 308.15 318.15 and 323.15 K, J. Chem. Thermodyn. 1989, 21, 801.
1989	fu	wan	1	Fu, J.; Wang, K.; Hu, Y., Studies on vapor-liquid and liquid-liquid vapor equilibria for the ternary system methanol-methyl methacrylate-water (I) three binary systems, Huagong Xuebao 1989, 4, 13;1.
1989	gar	gar	1	Garcia-Lisbona, N.; Garcia Vicente, I.; Munoz-Embid, J.; Velasco, I.; Otin, S., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1989, 17(1), 68-74.
1989	gul		0	Gultekin, N., Vapor-Liquid Equilibria for Binary and Ternary Systems Comprosed of Acetone, 2-Propanol, and 1-Propanol, J. Chem. Eng. Data 1989, 34, 168-171.
1989	kno	tie	0	Knoop, C.; Tiegs, D.; Gmehling, J., Measurement of .gamma. Using Gas-Liquid Chromatography 3. Results for the Stationary Phases 10-Nonadecanone, N-Formylmorpholine, 1-Pentanol, m-Xylene, and Toluene, J. Chem. Eng. Data 1989, 34, 240.
1989	lan	iul	0	Landauer, O.; Iulian, O.; Mateescu, C.; Geana, D., The study of the vapor-liquid equilibria in the system dimethyl sulfoxide-water. I. Experimental data, Rev. Roum. Chim. 1989, 34, 1529-34.
1989	leu	che	0	Leu, A. D.; Chen, C. J.; Robinson, D. B., Vapor-liquid equilibrium in selected binary systems, AIChE Symp. Ser. 1989, 85, 11-16.
1989	li	xin	0	Li, Y.; Xing, L.; Li, C.; Wang, X.; Li, S., Vapor-liquid equilibrium of the isobutyric acid-methacrylic acid binary system, Gaoxiao Huaxue Gongcheng Xuebao 1989, 3, 25-32.
1989	lor	leg	0	Lorenzana, M. T.; Legido, J. L.; Jimenez Cuesta, E.; Fernandez, J.; Pias, L.; Ortega, J.; Paz Andrade, M. I., Thermodynamic Properties of (a Propyl Ester + an n-Alkane) at 298.15 K 1. {xC2H5CO2C3H7 + (1-x)n-CmH2m+2}, (m=6 to 10), J. Chem. Thermodyn. 1989, 21, 1017.
1989	mar	der	0	Marongiu, B.; Dernini, S.; Lepori, L.; Matteoli, E., Calorimetric study of molecular interactions in mixtures of substances containing carbonyl groups, Thermochim. Acta 1989, 149, 111.
1989	mar	rog	0	Marsh, K. N.; Rogers, H., Excess Enthalpies of (Cyclohexane + Nitroethane) Near the (Liquid + Liquid) Critical Strate, J. Chem. Thermodyn. 1989, 21, 211.
1989	mat	gon	0	Mato, F.; Gonzalez, G.; Arroyo, F. J., Vapor-Liquid Equilibria at 760 mmHg in the Binary Systems Cyclohexene- 1,2-Dichloroethane and Cyclhexane-1,2-Dichloroethane, J. Chem. Eng. Data 1989, 34, 179.
1989	mcn	wil	0	McNelis, J. C.; Wileman, K. P.; Poling, B. E.; Manley, D. B., Experimental vapor-liquid equilibria for the benzene/propylmercapta and methylcyclohexane/propylmercaptan systems, AIChE Symp. Ser. 1989, 85, 87-93.

1989	nhu	sve	0	Nhu, N. V.; Svejda, P., Fluid Phase Equilib. 1989, 49, 127.
1989	nun	bar	0	Nunez, L.; Barral, L.; Gomez-Orellana, I.; Ramil-Rio, P. E.; Paz Andrade, M. I., Excess molar enthalpies at 298.15 K of (ethyl acetate + n-butylmethylamine or di-n-propylamine or di-n-butylamine) and of (ethyl propionate + n-butylmethylamine or di-n-propylamine or di-n-butylamine, J. Chem. Thermodyn. 1989, 21, 739.
1989	ora		0	Oracz, P., Int. DATA Ser., Sel. Data Mixtures, Ser. A 1989, 232-306.
1989	ram	oda	0	Ramkumar, D. H. S.; Odak, S. V.; Kudchadker, A. P., Mixture Properteis of the Water + .gamma.-Butyrolactone + Tetrahydrofuran System 3. Isobasric Vapor-Liquid equilibriuim of Water + .gamma.-Butyro- lactone and Tetrahydrofuran + .gamma.-Butyrlolactone, J. Chem. Eng. Data 1989, 34, 466.
1989	rou	piv	0	Rousseau, R. W.; Pividal, K. A.; Moore, C. A., Vapor-liquid equilibria in mixtures of 1,1-dichloroethane and acetaldehyde, AIChE Symp. Ser. 1989, 85, 17-24.
1989	smi	ter	0	Smirnova, G. G.; Tereshchenko, G. F.; Blagushina, M. A., Zh. Prikl. Khim. 1989, 62, 182.
1989	ste	kuk	0	Stepanova, E. I.; kukharenok, I. S.; Kurazheva, A. V.; Kharisov, M. A., Study of liquid-vapor phase equilibria in n-propyl alcohol-diethyl ketone and isopropyl alcohol-diethyl ketone systems, Zh. Prikl. Khim. (Leningrad) 1989, 62, 1882.
1989	van	koh	0	Van Nhu, N.; Kohler, F., Excess properties of mixtures of polar components and hydrocarbons of varying local polarisability, Fluid Phase Equilib. 1989, 50, 267.
1989	van	sve	0	Van Nhu, N.; Svejda, P., Fluid Phase Equilib. 1989, 49, 127.
1989	wis	tam	2	Wisniak, J.; Tamir, A., Vapor-Liquid Equilibria at 769 mmHg in the Systems Acetonitrile-Methyl Methacrylate, Acetonitrile-Vinyl Acetate, and Methyl Acetate-Vinyl Acetate, J. Chem. Eng. Data 1989, 34, 402.
1989	wu	san	0	Wu, H. S.; Sandler, S. I., Vapor-Liquid Equilibrium of 1,3-dioxolane Systems, J. Chem. Eng. Data 1989, 34, 209.
1990	ave	rou	0	Avedis, G.; Roux, A. H.; Grolier, J. -P. E., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1990, 18(1), 1-45.
1990	bat	row	0	Battler, J. R.; Rowley, R. L., Excess enthalpy of four partially miscible binary liquid mixtures near their critical solution temperatures, J. Chem. Eng. Data 1990, 35, 334-338.
1990	cha	kat	0	Chaudhari, S. K.; Katti, S. S., Excess enthalpies of n-alcohols (C1-C4) and n-alkanes (C6-C8) with 1,2-dichloroethane at 303.15 K, Thermochim. Acta 1990, 158, 99.
1990	cha	kat	1	Chaudhari, S. K.; Katti, S. S., VAPOUR-LIQUID EQUILIBRIA OF BINARY MIXTURES OF n-HEXANE, n-HEPTANE AND n-OCTANE WITH 1,2-DICHLOROETHANE AT 323.15 K, Fluid Phase Equilib. 1990, 57, 297-306.
1990	dut	kah	0	Dutt, N. V. K.; Kahol, A. P.; Reddy, P. J.; Raghunandanan, K. S., Isobaric Vapor-Liquid Equilibria for the Biunary Systems of Benzene/Tri- ethylamine, Benzene/Trimethyl Phosphite, and Triethylamine/Trimethyl Phosphite, J. Chem. Eng. Data 1990, 35, 114.
1990	emb	ber	0	Embid, J. M.; Berro, C.; Otin, S.; Kehiaian, H. V., Isothermal Vapor-Liquid Equilibria, Excess Enthalpies, and Excess Volumes of 1-Chlorobutane + Tetrachloromethane, 1,2-Dichloroethane + Tetrachloromethane, and 1,2-Dichloroethane + 1-Chlorobutane Mixtures, J. Chem. Eng. Data 1990, 35, 266-271.
1990	gau	ste	0	Gauger-Borzek, D.; Steiger, A.; Becker, F., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1990, 18(4), 226-239.
1990	gor	ora	0	Goral, M.; Oracz, P.; Warycha, S., Vapor-liquid equilibria. V. The ternary system carbon tetrachloride- methanol-chloroform at 303.15, Fluid Phase Equilib. 1990, 55, 337.
1990	kec	dub	0	Kechavarz, R.; Dubes, J. -P.; Tachoire, H., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1990, 18(2), 120-129.
1990	kog	won	0	Koga, Y.; Wong, T. Y. H.; Siu, W. W. Y., Vapor pressure of aqueous tert-butanol in the water-rich region: transition in the mixing scheme, Thermochim. Acta 1990, 169, 27-38.
1990	len	rou	0	Lenard, J. L.; Rousseau, R. W.; Teja, A. S., Vapor-liquid equilibria for mixtures of 2-aminoethanol + water, AIChE Symp. Ser. 1990, 86, 1-5.
1990	ort	sus	0	Ortega, J.; Susial, P., Measurements and prediction of VLE of methyl propanoate/ethanol/propan-1- ol at 114.16 and 127.99 kPa, J. Chem. Eng. Jpn. 1990, 23, 349-53.

1990	ort	sus	3	Ortega, J.; Susial, P.; de Alfonso, C., Isobaric Vapor-Liquid Equilibrium of Methyl Butanoate with Ethanol and 1-Propanol Binary Systems, J. Chem. Eng. Data 1990, 35, 216.
1990	ram	ram	0	Rambabu, K.; Raman, G. K.; Ramakrishna, M., Excess enthalpies of binary solvent mixtures of .gamma.- butyrolactone with hexan-1-ol, heptan-1-ol, octan-1-ol and decan-1-ol, Phys. Chem. Liq. 1990, 22, 61-4.
1990	she	anx	0	Shen, W.; An Xue, Q.; McElroy, P. J.; Williamson, A. G., J. Chem. Thermodyn. 1990, 22, 905.
1990	ton	zha	0	Tong, Z. ; Zhao, C.; Lu, H., Excess enthalpies for ketone-alcohol systems, Thermochim. Acta 1990, 169, 323-30.
1990	wan	cha	2	Wang, Y. X.; Chao, J. P.; Dai, M., Studies on the thermodynamic properties of binary mixtures containing an alcohol. XIII. Excess molar enthalpies of some mixtures of n-alcohols with aniline or chlorobenzene at 298.15, Thermochim. Acta 1990, 169, 161-9.
1990	wis	tam	0	Wisniak, J.; Tamir, A., Isobaric Vapor-Liquid Equilibria in the Systems Propyl Bromide-Methyl Ethyl Ketone, Methyl Ethyl Ketone-o-Xylene, and Vinyl Acetate-Methyl Methacrylate, J. Chem. Eng. Data 1990, 35, 147-150.
1990	wol	lin	0	Wolfova, J.; Linek, J.; Wichterle, I., Vapor-liquid equilibria in the heptane - 3-pentanol and heptane - 2-methyl-2-butanol systems at constant temperature, Fluid Phase Equilib. 1990, 54, 69.
1990	wu	loc	0	Wu, H. S.; Locke, W. E.; Sandler, S. I., Isothermal Vapor-Liquid Equilibrium of Binary Mixt. Containing Pyrrolidine, J. Chem. Eng. Data 1990, 35, 169-172.
1990	zie	ora	0	Zielkiewicz, J.; Oracz, P.; Warycha, S., Total vapor pressure measurements and excess Gibbs energies for the binary systems methanol + ethanol, ethanol + 2-propanol, benzene + cyclohexane, benzene + carbon tetrachloride and benzene + ethano, Fluid Phase Equilib. 1990, 58, 191.
1991	art	fer	13	Artal, M.; Fernandez, J.; Munoz Embid, J.; Velasco, I.; Otin, S.; Kehiaian, H. V., Excess enthalpies and molecular interactions in solutions of 1- fluoroalkanes in alkanes, benzene or tetrachloromethane. A group contribution (DISQUAC) study, J. Solution Chem. 1991, 20, 3-16.
1991	ban	lar	0	Banipal, T. S.; Lark, B. S.; Singh, S., Excess Gibbs energy for binary mixtures of acetonitrile with acetic acid, propionic acid, isobutyric acid, and trimethylacetic acid, Can. J. Chem. 1991, 69, 2117-21.
1991	ben	hei	0	Bender, M.; Heintz, A.; Lichtenthaler, R. N., Excess enthalpy of the system butyl acetate + butan-1-ol + acetic acid + water at 313 K and ambient pressure, Thermochim. Acta 1991, 187, 79-94.
1991	cha	wan	0	Chao, J. P.; Wang, Y. X.; Dai, M., Studies of thermodynamic properties of binary mixtures containing an alcohol. XVII. Excess molar enthalpies of each of (one of the four butanols + N,N-dimethylacetamide or N,N-dimethylformamide or di, J. Chem. Thermodyn. 1991, 23, 163-8.
1991	dic	maz	0	Di Cave, S.; Mazzarotta, B., Isobaric Vapor-Liquid Equilibria for the Binary Systems Formed by Acetonitrile and Aromatic Hydrocarbons, J. Chem. Eng. Data 1991, 36, 293.
1991	kir	ven	0	Kiran-Kumar, R.; Venkateswara-Rao, K.; Prasad, D. H. L., Fluid Phase Equilib. 1991, 70, 19.
1991	len	per	0	Lencka, M.; Persson, O.; Rasmussen, P., J. Chem. Thermodyn. 1991, 23, 851-58.
1991	mat	bon	0	Mato, F.; Bonilla, D.; Gonzalez Benito, G., Liquid-vapor equilibrium of the n-heptane-isobutyl acetate, toluene- isobutyl acetate, and toluene-n-butyl acetate systems at 760 mmHg, An. Quim. 1991, 87, 660-3.
1991	nat		0	Nath, J., Thermodynamic behavior of binary systems of 1,4-dioxane with 1,2-dichloroethane, dichloromethane, trichloroethene, tetrachloroethene and cyclohexane. Vapor pressures and excess molar Gibbs energies, J. Chem. Soc., Faraday Trans. 1991, 87, 1345-50.
1991	ort		2	Ortega, J., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 1991, 19(4), 247-254.
1991	pic	men	0	Pico, J. M.; Menaut, C. P.; Fernandez, J.; Legido, J. L.; Paz Andrade, M. I., Excess enthalpies of some 2-alkanone + 1-chloroalkane binary mixtures at 25 and 35.degree.C, J. Solution Chem. 1991, 20, 115-24.

1991	sin	kal	0	Singh, K. C.; Kalra, K. C.; Kumar, P.; Soni, M., Excess volumes of mixing and excess enthalpies of mixing of n-butyl chloride with aromatic hydrocarbons at 298.15 K, Thermochim. Acta 1991, 182, 57-66.
1991	sri	rao	0	Srinivas, C.; Rao, M. V.; Prasad, D. H. L., Vapor-liquid equilibria in the binary systems formed by methanol with 1,2- dichloroethane, 1,1,1-trichloroethane and 1,1,2,2-tetrachloroethane at 96.7 kPa, Fluid Phase Equilib. 1991, 61, 285-97.
1991	wil	wil	0	Wilson, H. L.; Wilding, W. V.; Neiditch, D., Vapor-liquid equilibrium measurements on the N,N-dimethylformamide/1- butanol system at 65 and 125.degree.C, J. Chem. Eng. Data 1991, 36, 346.
1991	wol	lin	0	Wolfova, J.; Linek, J.; Wichterle, I., Vapor-liquid equilibria in the heptane-2-pentanol and heptane-2-methyl-1- butanol systems at 75, 85 and 95.degree.C, Fluid Phase Equilib. 1991, 64, 281-9.
1991	wu	loc	0	Wu, H. S.; Locke, W. E.; Sandler, S. I., Isothermal Vapor-Liquid Equil. of Binary Mixtures Containing Morpholine morpholine, J. Chem. Eng. Data 1991, 36, 127.
1992	ait	bel	0	Ait-Kaci, A.; Belaribi, G.; Michou-Saucet, C.; Jose, J., Liquid-vapor equilibrium, Int. DATA Ser., Sel. Data Mixtures, Ser. A 1992, 32-44.
1992	bar	got	0	Barhala, A.; Gothard, F. A.; Marchidan, D. I., Liquid-vapor equilibria in binary mixtures of 2-chlorotoluene + 4- chlorotoluene and toluene + 2-chlorotoluene, Rev. Roum. Chim. 1992, 37, 27-40.
1992	bit	eck	0	Bittrich, H.-J.; Eckert, R., Vapor/liquid phase equilibrium of binary mixtures with methanol or ethanol as one of the components, Z. Phys. Chem. (Munich) 1992, 175, 217-34.
1992	gor	ora	0	Goral, M.; Oracz, P.; Warycha, S., Vapor-liquid equilibria. VI. The ternary system acetone-hexane- cyclohexane at 313.15 K, Fluid Phase Equilib. 1992, 81, 261-72.
1992	gra	gar	0	Gracia, M.; Garcia-Sanchez, F.; Perez, P.; Valero, J.; Gutierrez-Losa, C., J. Chem. Thermodyn. 1992, 24, 463.
1992	gra	gar	1	Gracia, M.; Garcia-Sanchez, F.; Perez, P.; Valero, J.; Gutierrez-Losa, C., J. Chem. Thermodyn. 1992, 24, 843.
1992	gra	san	0	Gracia, M.; Sanchez, F.; Perez, P.; Valero, J.; Gutierrez Losa, C., Vapor pressures of (butan-1-ol + hexane) at temperatures between 283.10 K and 323.12 K, J. Chem. Thermodyn. 1992, 24, 463-71.
1992	iul	lan	1	Iulian, O.; Landauer, O.; Geana, D., The study of the vapor-liquid equilibria in the dioxane-dimethyl sulfoxide system. I. Experimental data, Rev. Roum. Chim. 1992, 37, 525-30.
1992	kas	wil	0	Kasprzycka-Guttman, T.; Wilczura, H., Application of the Prigogine-Flory-Patterson and extended real associated solution method to molar excess heat of mixing of .beta.-picoline + n- alkane mixtures, Thermochim. Acta 1992, 198, 405-12.
1992	kec	dub	0	Kechavarz, R.; Dubes, J. P.; Tachoire, H., Excess enthalpy of pyridine + some n-alkanes (C6-C16) + 2,2,4-trimethylpent, Int. DATA Ser., Sel. Data Mixtures, Ser. A 1992, 11-31.
1992	kir	kuu	0	Kirss, H.; Kuus, M.; Siimer, E.; Kudryavtseva, L. S., Measurement, correlation and prediction of binary vapor-liquid equilibria and enthalpies of mixing for systems containing isomeric alkynes, Thermochim. Acta 1992, 195, 85-94.
1992	por		1	Porcedda, S., Excess enthalpy of heptane or tetrachloromethane + cycloalkane(c7,c8,c10) + cis-bicyclo[4.4.0]decane, or 1,2,3,4-tetrahydrohydronaphthalene, Int. DATA Ser., Sel. Data Mixtures, Ser. A 1992, 92-101.
1992	sel	dut	0	Selvam, S. P.; Dutt, N. V. K.; Rao, I. B.; Subba Rao, Y. V., Isobaric VLE data for the binary systems phenol + o-cresol, phenol + p- cresol, o-cresol + p-cresol and p-cresol + 2,4-xylenol, Fluid Phase Equilib. 1992, 78, 261-267.
1992	sur	kri	0	Surendranath, K. N.; Krishnaiah, A.; Ramakrishna, M., Thermodynamics of binary mixtures containing cyclic ethers. Part III. Excess enthalpies of oxolane and 1,4-dioxane with chloroethanes and chloroethenes, Fluid Phase Equilib. 1992, 71, 169-176.
1992	wob	hra	0	Wobst, M.; Hradetzky, G.; Bittrich, H.-J., Measurement of activity coefficients in highly dilute solutions. Part II, Fluid Phase Equilib. 1992, 77, 297-312.
1992	yan	bot	0	Yanez Torres, M. A.; Bottini, S. B.; Brignole, E. A.; Sanhueza, V.; Reich, R., Vapor-liquid equilibria for binary mixtures with anisole, Fluid Phase Equilib. 1992, 71, 85-98.

1992	zie		0	Zielkiewicz, J., (Vapor + liquid) equilibria in (propan-1-ol + heptane + octane) at the temperature 313.15 K, J. Chem. Thermodyn. 1992, 24, 455-62.
1993	ara	mac	0	Araujo, M. E.; Maciel, M. R. W.; Francesconi, Artur Zaghini, Excess Gibbs free energies of (hexane + butan-2-ol) and of (cyclohexane + butan-2-ol) at the temperatures (323.15, 338.15, and 348.15) K, J. Chem. Thermodyn. 1993, 25, 1295-1299.
1993	ben	lam	0	Bennett, A.; Lamm, S.; Orbey, H.; Sandler, S. I., Vapor-liquid equilibria of hydrocarbons and fuel oxygenates. 2, J. Chem. Eng. Data 1993, 38, 263-269.
1993	fer	laa	0	Ferriol, M.; Laachach, A.; Cohen-Adad, M. T.; Thourey, J., Excess enthalpies in the binary systems water-hydrazine, water- methylhydrazine and water-1,1-dimethylhydrazine: determination and modeling in relation to the structure of the liquid phase, Fluid Phase Equilib. 1993, 91, 101-12.
1993	fra	com	1	Francesconi, R.; Comelli, F.; Malta, V., Isothermal vapor-liquid equilibria, densities, refractive indexes, excess enthalpies, and excess volumes of 1,3-dioxolane or oxolane + isooctane at 2 98.15 K, J. Chem. Eng. Data 1993, 38, 424-427.
1993	gor	asm	0	Goral, M.; Asmanova, N., Vapor-liquid equilibria in nonpolar mixtures. Part I. 2,2,4-Trimethylpentane with benzene, toluene, o-xylene, p-xylene, ethylbenzene and propylbenzene at 313.15 K, Fluid Phase Equilib. 1993, 86, 201-209.
1993	gor	zaw	0	Goral, M.; Zawadzki, S., Vapor-liquid equilibria in nonpolar mixtures. II. Carbon tetrachloride with alkylbenzenes and n-alkanes at 313.15 K, Fluid Phase Equilib. 1993, 90, 355-64.
1993	han	yan	0	Han, B.; Yan, H.; Hu, R., Vapor pressure of n-heptane -n-octane and n-octane - iso-octane binary mixtures, Wuli Huaxue Xuebao 1993, 9, 421-3.
1993	jin	hu	1	Jin, Z.; Hu, A.; Liu, K., Vapor-liquid equilibrium for ternary mixtures of benzene, toluene and p-xylene, Chin. J. Chem. Eng. 1993, 1, 5;47.
1993	let	mer	1	Letcher, T. M.; Mercer-Chalmers, J.; Govender, U. P.; Radloff, S., Excess molar enthalpies and excess molar volumes of binary mixtures of 1- alkenes with 1-propanol and 2-propanol, Thermochim. Acta 1993, 224, 33-8.
1993	let	nev	0	Letcher, T. M.; Nevines, J. A.; Vijayan, R. P.; Radloff, S. E., Excess enthalpies of (a chlorinated benzene + an alkanol) at the temperature 298.15 K, J. Chem. Thermodyn. 1993, 25, 379-383.
1993	lop	leg	0	Lopez, M.; Legido, J. L.; Romani, L.; Peleteiro, J.; Paz Andrade, M. I., Excess molar enthalpies of binary and ternary mixtures for 1-propanol + 3- pentanone + 1-hexanol or + 1-heptanol at 298.15 K, J. Chem. Eng. Data 1993, 38, 238-241.
1993	mal	chy	0	Malijevska, I.; Chylkova, K., Vapor-liquid equilibrium in the binary system ethanoic acid-4-methyl-2- pentanone, Fluid Phase Equilib. 1993, 87, 365-377.
1993	miy	hay	0	Miyano, Y.; Hayduk, W., Solubilities of butane, vapor pressures, and densities for benzene + cyclohexane, benzene + methanol, and methanol + cyclohexane solutions at 29 8 K, J. Chem. Eng. Data 1993, 38, 277-281.
1993	nak	chu	1	Nakamura, M.; Chubachi, K.; Tamura, K.; Murakami, S., Thermodynamic properties of [x{HCON(CH3)2 or CH3CN} + (1-x)(CH3)2SO] at the temperature 298.15 K, J. Chem. Thermodyn. 1993, 25, 1311-1318.
1993	neg	blo	0	Negadi, L.; Blondel, A.; Mokbel, I.; Ait-Kaci, A.; Jose, J., Liquid-vaper equilibria, excess Gibbs energies, and excess volumes of dimethyl carbonate + heptane, + 1-hexene, + cyclohexane, or + benzene, Int. DATA Ser., Sel. Data Mixtures, Ser. A 1993, 21, 169-194.
1993	ort	pla	2	Ortega, J.; Placido, J., Excess enthalpy of some alpha, omega-dibromoalkane (C2-C6) + normal alkane (C5-C17) mixtures, Int. DATA Ser., Sel. Data Mixtures, Ser. A 1993, 21, 48-84.
1993	ort	sus	0	Ortega, J.; Susial, P., Vapor-liquid equilibria behavior of methyl esters and propan-2-ol at 74.66, 101.32 and 127.99 kPa, J. Chem. Eng. Jpn. 1993, 26, 259-65.
1993	rod	par	0	Rodriguez, V.; Pardo, J.; Lopez, M. C.; Royo, F. M.; Urieta, J. S., Vapor pressures of binary mixtures of hexane + 1-butanol, + 2-butanol, + 2- methyl-1-propanol, or +2-methyl-2-propanol at 298.15 K, J. Chem. Eng. Data 1993, 38, 350-352.
1993	war		0	Warycha, S., Vapor-liquid equilibria and excess Gibbs energies for binary systems of pyridine base with hydrocarbons at 313.15 K, J. Chem. Eng. Data 1993, 38, 274-6.
1994	alo	cal	0	Alonso, V.; Calvo, E.; Bravo, R.; Pintos, M.; Amigo, A., Thermodynamic Properties of

Tetrahydropyran + 1-Alkanol Mixtures, J. Chem. Eng. Data 1994, 39, 926-928.

1994 auc bur 2 Aucejo, A.; Burguet, M. C.; Monton, J. B.; Munoz, R.; Sancho-Tello, M.; Vazquez, M. I., Isothermal Vapor-Liquid Equilibria for 2-Methyl-2-butanol + 2-Methyl-1- butanol + 1-Pentanol, J. Chem. Eng. Data 1994, 39, 581-583.

1994 ber lai 0 Berro, C.; Laichoubi, F.; Rauzy, E., Isothermal (vapor + liquid) equilibria and excess volumes of (3- methylpentane + heptane), of (3-methylpentane + octane), and of (toluene + octane), J. Chem. Thermodyn. 1994, 26, 863-869.

1994 bit eck 0 Bittrich, H.-J.; Eckert, R., Vapor-liquid equilibriums of binary mixtures of 1-propanol, Z. Phys. Chem. (Munich) 1994, 185, 207-21.

1994 com fra 1 Comelli, F.; Francesconi, R., Isothermal Vapor-Liquid Equilibria, Densities, Refractive Indices, Excess Molar Volumes, and Excess Molar Enthalpies of Dimethyl Carbonate + 1,2- Dichloroethane and + 1,1,1-Trichloroethane, J. Chem. Eng. Data 1994, 39, 560-564.

1994 gar per 0 Garriga, R.; Perez, P.; Valero, J.; Gracia, M., Vapor pressures at several temperatures and excess functions of n-butanol with 2,2-dimethylbutane and with 2,3-dimethylbutane at 298.15 K, Fluid Phase Equilib. 1994, 102, 85-95.

1994 gar san 0 Garriga, R.; Sanchez, F.; Perez, P.; Valero, J.; Gracia, M., Vapor pressures at several temperatures and excess functions at 298.15 K of n-butanol + 2-methylpentane, and + 3-methylpentane, Fluid Phase Equilib. 1994, 101, 227-236.

1994 gor 0 Goral, M., Vapor-liquid equilibria in non-polar mixtures. III. Binary mixtures of alkylbenzenes and n-alkanes at 313.15 K, Fluid Phase Equilib. 1994, 102, 275-286.

1994 hia kur 0 Hiak, T.; Kurihara, K.; Kojima, K., Vapor-Liquid Equilibria for Acetone + Chloroform + Methanol and Constituent Binary Systems at 101.3 kPa, J. Chem. Eng. Data 1994, 39, 714-719.

1994 jon sav 0 Jonasson, A.; Savoia, M.; Persson, O.; Fredenslund, A., Isothermal vapor-liquid equilibrium data for ether + glycol, chloroalkene + glycol, epoxy ether + alkane, epoxy ether + alkene, and epoxy ether + chloroalkane systems, J. Chem. Eng. Data 1994, 39, 134-139.

1994 kal sin 0 Kalra, K. C.; Singh, K. C.; Spah, D. C., Excess Molar Gibbs Free Energies and Isentropic Compressibilities of 1,2- Dibromoethane + Cyclohexane or Tetrachloromethane, J. Chem. Eng. Data 1994, 39, 372-374.

1994 kri vis 0 Krishnaiah, A.; Viswanath, D. S.; Toghiani, H., Isothermal Vapor-Liquid Equilibria of Dichloromethane + Isopropyl Ether dichloromethane, 1994, 11-17.

1994 kri vis 1 Krishnaiah, A.; Viswanath, D. S.; Toghiani, H., Isothermal Vapor-Liquid Equilibria of the System Isopropyl Acetate + Cyclopropane, 1994, 1-10.

1994 lim whi 0 Lim, K. -H.; Whiting, W. B.; Smith, D. H., Excess Enthalpies and Liquid-Liquid Equilibrium Phase Compositions of the Nonionic Amphiphile 2-Butoxyethanol and Water, J. Chem. Eng. Data 1994, 39, 399-403.

1994 mar mar 0 Marongiu, B.; Marras, G.; Pittau, B.; Porcedda, S., Thermodynamics of binary mixtures containing thiaalkanes. Excess enthalpies of thiaalkanes and polythiaalkanes+n-alkanes or cyclohexane, Fluid Phase Equilib. 1994, 97, 127-146.

1994 mon llo 0 Monton, J. B.; Llopis, F. J., Isobaric vapor-liquid equilibria of ethylbenzene + m-xylene and ethylbenzene + o-xylene systems at 6.66 and 26.66 kPa, J. Chem. Eng. Data 1994, 39, 50-52.

1994 nag 4 Nagata, I., Excess molar enthalpies for methanol + acetone and methanol + acetone + benzene mixtures at 298.15 K, Thermochim. Acta 1994, 236, 23-30.

1994 ort gal 0 Ortega, J.; Galvan, S., Vapor-Liquid Equilibria of Propyl Propanoate with 1-Alkanols at 101.32 kPa of Pressure, J. Chem. Eng. Data 1994, 39, 907-910.

1994 ort pen 0 Ortega, J.; Pena, J. A., Vapor-liquid equilibria of methyl or ethyl acetate with 1-chloropentane or 1-chlorohexane at 101.32 kPa pressure, J. Chem. Eng. Jpn. 1994, 27, 351-6.

1994 per val 0 Perez, P.; Valero, J.; Gracia, M., Isothermal Vapor-Liquid Equilibrium of 1,2-Dibromoethane + Tetrachloromethane at Temperatures between 283.15 and 323.15 K, J. Chem. Eng. Data 1994, 39, 789-792.

1994 ven pra 0 Venkatesulu, D.; Prabhakara Rao, M. V.; Veeranna, D., Excess enthalpies of 2-alkoxyethanols with trichloroethylene and tetrachloroethylene at 298.15 K, Thermochim. Acta 1994, 242, 33-39.

1994	wan	cai	1	Wang, S.; Cai, S., VLE Data for Chloroform - n-Propanol and Its System Containing Salt, Huaxue Gongcheng 1994, 22, 36-40.
1994	wis	ape	3	Wisniak, J.; Apelblat, A.; Zabicky, J.; Feingold, I., ISOBARIC VAPOR-LIQUID EQUILIBRIA IN THE BINARY SYSTEMS OF 1,3-DIOXOLANE, 1-CHLOROBUTANE AND 2-CHLOROBUTANE, Phys. Chem. Liq. 1994, 28, 177-185.
1994	zhu	she	4	Zhu, S.; Shen, S.; Benson, G. C.; Lu, B. C.-Y., Excess enthalpies of (ethanol or 1-propanol) + methyl tert-butyl ether + n- octane ternary mixtures at 298.15 K, Fluid Phase Equilib. 1994, 94, 217-226.
1995	art	mun	2	Artal, M.; Munoz Embid, J.; Marras, G.; Velasco, I.; Otin, S., Isothermal Vapor-Liquid Equilibria and Excess Volumes of Propanenitrile or Butanenitrile + Heptane or + Benzene Mixtures, J. Chem. Eng. Data 1995, 40, 1154-7.
1995	cam	bhe	0	Camero, C. G.; Bhethanabotla, V. R.; Campbell, S. W., Total Pressure Measurements for Chloroform + Acetone + 2-Butanone at 303.15 K, J. Chem. Eng. Data 1995, 40, 210-13.
1995	com	fra	1	Comelli, F.; Francesconi, R., Excess Molar Enthalpy of Binary Mixtures of Diethyl Carbonate + Nine Chloroalkanes at 298.15 K and Atmospheric Pressure, J. Chem. Eng. Data 1995, 40, 509-11.
1995	com	fra	5	Comelli, F.; Francesconi, R., Isothermal Vapor-Liquid Equilibria for 2,2,4-Trimethylpentane + Five Chlorohydrocarbon Binary Systems at 343.15 K, J. Chem. Eng. Data 1995, 40, 21-4.
1995	cot	pan	0	Coto, B.; Pando, C.; Rubio, R. G.; Renuncio, J. A. R., Vapor-liquid equilibrium of the ethanol-propanal system, J. Chem. Soc., Faraday Trans. 1995, 91, 273-8.
1995	dej	bur	0	Dejoz, A.; Burguet, M. C.; Munoz, R.; Sanchotello, M., J. Chem. Eng. Data 1995, 40, 290.
1995	far	lin	0	Farkova, J.; Linek, J.; Wichterle, I., Isothermal vapor-liquid equilibria and excess volumes in the methanol- aliphatic ether systems, Fluid Phase Equilib. 1995, 109, 53-65.
1995	fu	mo	0	Fu, H.; Mo, X.; Han, S.-J.; Li, H.; Deng, F., Study on isothermal vapor-liquid equilibrium for ethanol-benzene, chloroform-benzene and ethanol-chloroform binary systems, Shiyou Xuebao, Shiyou Jiagong 1995, 11, 87-92.
1995	gab	mar	0	Gabaldon, C.; Marzal, P.; Monton, J. B., Vapor-Liquid Equilibria of the 1-Butanol + o-Chlorophenol System. Effects of Association in the Vapor Phase, J. Chem. Eng. Data 1995, 40, 190-3.
1995	gar	put	0	Garriga, R.; Putze, I.; Perez, P.; Gracia, M., Vapor pressures at several temperatures T and excess functions at T = 298.1 5 K of (butanenitrile + ethanol or butan-1-ol), J. Chem. Thermodyn. 1995, 27, 481-91.
1995	gon	ort	1	Gonzalez, E.; Ortega, J., Vapor-liquid equilibria for mixtures of several butyl esters (methanoate to butanoate) and 1-propanol at 101.32 kPa, J. Chem. Eng. Jpn. 1995, 28, 765-71.
1995	haa	hei	0	Haan, A. B.; Heine, A.; Fischer, K.; Gmehling, J., J. Chem. Eng. Data 1995, 40, 1228.
1995	hia	tak	1	Hiaki, T.; Takahashi, K.; Tsuji, T.; Hongo, M.; Kojima, K., Vapor-Liquid Equilibria of Ethanol + Octane at 343.15 K and 1-Propanol + Octane at 358.15 K, J. Chem. Eng. Data 1995, 40, 271-3.
1995	iul	ham	0	Iulian, O.; Hamplea, L.; Sandulescu, I., Isothermal vapor-liquid equilibria of water + N,N-dimethylformamide system, Rev. Roum. Chim. 1995, 40, 7-11.
1995	kur	min	0	Kurihara, K.; Minoura, T.; Takeda, K.; Kojima, K., Isothermal Vapor-Liquid Equilibria for Methanol + Ethanol + Water, Methanol + Water, and Ethanol + Water, J. Chem. Eng. Data 1995, 40, 679-84.
1995	lai	lau	0	Lai, J. T. W.; Lau, F. W.; Robb, D.; Westh, P.; Nielsen, G.; Trandum, C.; Hvidt, A.; Koga, Y., Excess partial molar enthalpies, entropies, Gibbs energies, and volumes in aqueous dimethylsulfoxide, J. Solution Chem. 1995, 24, 89-102.
1995	lee	hu	0	Lee, M. J.; Hu, C. -H., Isothermal vapor-liquid equilibria for mixtures of ethanol, acetone, and diisopropyl ether, Fluid Phase Equilib. 1995, 109, 83-98.
1995	let	gov	1	Letcher, T. M.; Govender, U. P., Excess Molar Enthalpies of an Alkanol + a Cyclic Ether at 298.15 K, J. Chem. Eng. Data 1995, 40, 1097-1100.
1995	let	nev	1	Letcher, T. M.; Nevines, J. A., Excess Enthalpies of Ketone + Alkanol at the Temperature 298.15 K, J. Chem. Eng. Data 1995, 40, 995-6.

1995	loz	mon	0	Lozano, L. M.; Montero, E. A.; Martin, M. C.; Villamanan, M. A., Vapor-liquid equilibria of binary mixtures containing methyl tert-butyl ether (MTBE) and/or substitution hydrocarbons at 298.15 K and 313.15 K, Fluid Phase Equilib. 1995, 110, 219-30.
1995	mar	gab	0	Marzal, P.; Gabaldon, C.; Seco, A.; Monton, J. B., Isobaric Vapor-Liquid Equilibria of 1-Butanol + N,N- Dimethylformamide and 1-Pentanol + N,N-Dimethylformamide Systems at 50.00 and 100.00 kPa, J. Chem. Eng. Data 1995, 40, 589-92.
1995	moo	och	0	Moon, H. M.; Ochi, K.; Kojima, K., Vapor-Liquid Equilibria for the Ethyl Methyl Ketone + Water System with Limited Miscibility, J. Chem. Eng. Data 1995, 40, 468-71.
1995	ora	war	0	Oracz, P.; Warycha, S., Vapor-liquid equilibria. VII: The ternary system hexane-methanol-acetone at 313.15 K, Fluid Phase Equilib. 1995, 108, 199-211.
1995	res	bet	0	Resa, J. M.; Betolaza, M. A.; Gonzalez, C.; Ruiz, A., Isobaric vapor-liquid equilibria of acetone-propyl ether and isopropyl ether-propyl ether systems. Corroboration of no reverse volatility, Fluid Phase Equilib. 1995, 110, 205-17.
1995	rod	laf	1	Rodriguez, V.; Lafuente, C.; Royo, F. M.; Urieta, J. S.; Carrion, A., Experimental and predicted isobaric vapor-liquid equilibrium for the binary systems 1,2-dibromoethane with isomeric butanols, J. Chem. Eng. Jpn. 1995, 28, 721-6.
1995	sus		0	Susial, P., Ortega, J., J. Chem. Eng. Jpn. 1995, 28, 66.
1995	ton	gao	2	Tong, J.; Gao, G.; He, J.; Liang, Y., Determination and correlation of vapor-liquid equilibria for sulfolane-carbon-8 aromatic hydrocarbon systems, Tianranqi Huagong 1995, 20, 54-58.
1995	vis	rao	2	Viswanathan, S.; Rao, M. A.; Kumar, Y. V. L. R.; Rao, M. V., ISOBARIC VAPOUR-LIQUID EQUILIBRIUM DATA FOR THE BINARY SYSTEMS OF ANISOLE WITH BENZENE AND CHLOROBENZENE, Phys. Chem. Liq. 1995, 29, 97-103.
1995	wis		0	Wisniak, J., Isobaric Vapor-Liquid Equilibria for 2,2'-Oxybis[propane] + Cyclohexane, J. Chem. Eng. Data 1995, 40, 924-6.
1995	wol	lan	0	Wolff, H.; Landeck, H.; Frerichs, H. -P.; Wolff, E., The association of normal and tertiary butylamine in mixtures with n- hexane according to isothermal vapor pressure measurements, Fluid Phase Equilib. 1995, 109, 245-63.
1995	yan	zha	0	Yang, H.-Y.; Zhao, J.-P.; Li, H. -P.; Dai, M., Excess molar enthalpies of n-alkanols or isomeric alkanols + N,N- dimethylethanolamine at 298.15 K, Thermochim. Acta 1995, 253, 69-75.
1995	zai	kre	0	Zaichikov, A. M.; Krestov, G. A., Thermodynamic properties of the water-dimethylformamide system, Zh. Fiz. Khim. 1995, 69, 389-94.
1996	arc	mar	0	Arce, A.; Martinez-Ageitos, J.; Soto, A., VLE Measurements of Binary Mixtures of Methanol, Ethanol, 2-Methoxy-2- methylpropane, and 2-Methoxy-2-methylbutane at 101.32 kPa, J. Chem. Eng. Data 1996, 41, 718-723.
1996	bar	bhe	0	Barton, D. P.; Bhethanabotla, V. R.; Campbell, S. W., Binary Total Pressure Measurements for Methanol with 1-Pentanol, 2- Pentanol, 3-Pentanol, 2-Methyl-1-butanol, 2-Methyl-2-butanol, 3-Methyl-1- butanol, and 3-Methyl-2-butanol at 313.15 K, J. Chem. Eng. Data 1996, 41, 1138-1140.
1996	com	fra	0	Comelli, F.; Francesconi, R., Excess Molar Enthalpies and Excess Molar Volumes of Propionic Acid + Octane, + Cyclohexane, + 1,3,5-Trimethylbenzene, + Oxane, or + 1,4-Dioxane at 313.15 K, J. Chem. Eng. Data 1996, 41, 101-104.
1996	com	fra	2	Comelli, F.; Francesconi, R., Thermodynamic Properties of Binary Mixtures Containing 1,2-Epoxybutane + Four Alkanols at 298.15 K, J. Chem. Eng. Data 1996, 41, 1392-1396.
1996	cot	wie	0	Coto, B.; Wiesenberg, R.; Pando, C.; Rubio, R. G.; Renuncio, J. A. R., Vapor-liquid equilibrium of the methanol-tert-butyl methyl ether (MTBE) system, Ber. Bunsen-Ges. Phys. Chem. 1996, 100, 482-9.
1996	dah	wic	0	Dahmani, O.; Wichterle, I.; Ait-Kaci, A., Isothermal vapour-liquid equilibria for binary systems of chloroalkanes with heptane, toluene and methylcyclohexane at 323.15 and 333.15 K, Fluid Phase Equilib. 1996, 124, 135-146.
1996	deh	boe	0	deHaan, A. B.; Boelts, R.; Gmehling, J., Vapor-Liquid Equilibria and Excess Enthalpies for Binary Mixtures of Acrylonitrile with Hexane, Cyclohexane, Benzene, Toluene, 2-Butanone, and Acetonitrile, J. Chem. Eng. Data 1996, 41, 1155-1159.

1996	dej	gon	1	Dejoz, A.; Gonzalez-Alfaro, V.; Miguel, P. J.; Vazquez, M. I., Isobaric Vapor-Liquid Equilibria of Trichloroethylene with 1-Butanol and 2- Butanol at 20 and 100 kPa, J. Chem. Eng. Data 1996, 41, 89-92.
1996	fis	shu	0	Fischer, K.; Shulgin, I.; Rarey, J.; Gmehling, J., Vapor-liquid equilibria for the system water + tert.-pentanol at 4 temperatures, Fluid Phase Equilib. 1996, 120, 143-165.
1996	gab	mar	0	Gabaldon, C.; Marzal, P.; Monton, J. B.; Rodrigo, M. A., Isobaric Vapor-Liquid Equilibria of the Water + 1-Propanol System at 30, 60 , and 100 kPa, J. Chem. Eng. Data 1996, 41, 1176-1180.
1996	gar	san	1	Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Vapor pressures at six temperatures between 278.15 K and 323.15 K and excess molar functions at T = 298.15 K of (butanone + methanol or ethanol), J. Chem. Thermodyn. 1996, 28, 567-576.
1996	gar	san	2	Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Excess Gibbs free energies at seven temperatures and excess enthalpies and volumes at 298.15 K of butanone with 1-propanol or 2-propanol, Fluid Phase Equilib. 1996, 124, 123-134.
1996	gar	san	3	Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Excess Gibbs free energies at seven temperatures and excess enthalpies and volumes at 298.15 K of butanone with 1-propanol or 2-propanol, Fluid Phase Equilib. 1996, 124, 123-134.
1996	gon	ort	2	Gonzales, E.; Ortega, J., J. Chem. Eng. Jpn. 1996, 29, 294.
1996	gon	ort	6	Gonzalez, E.; Ortega, J., Vapor-liquid equilibria at 101.32 kPa in mixtures formed by the first four butyl alkanoates and butan-2-ol, Fluid Phase Equilib. 1996, 124, 161-175.
1996	gup	mak	0	Gupta, V.; Maken, S.; Kalra, K. C.; Singh, K. C., Molar excess free energy of mixing of 1-propanol or 2-propanol with cyclohexane at 298.15 and 308.15 K in terms of association model with a Flory contribution term, Fluid Phase Equilib. 1996, 120, 195-203.
1996	lin	wic	1	Linek, J.; Wichterle, I.; Marsh, K. N., Vapor-liquid Equilibria for N-Methyl-3-pyrrolidone + Benzene, + Toluene, and + Methylcyclohexane, J. Chem. Eng. Data 1996, 41, 1212-1218.
1996	nol	fis	0	Noll, O.; Fischer, K.; Gmehling, J., Vapor-Liquid Equilibria and Enthalpies of Mixing for the Binary System Water + N-Methyl-2-pyrrolidone in the Temperature Range 80-140 .degree.C, J. Chem. Eng. Data 1996, 41, 1434-1438.
1996	sin	kal	0	Singh, K. C.; Kalra, K. C.; Maken, S.; Gupta, V., Excess enthalpies and volumes of mixing of 1-propanol or 2-propanol + cyclohexane at 298.15 and 308.15 K, Fluid Phase Equilib. 1996, 123, 271-281.
1996	sin	kal	3	Singh, K. C.; Kalra, K. C.; Maken, S.; Gupta, V., Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o- , m- and p-xylenes at 298.15 K, Thermochim. Acta 1996, 275, 51-65.
1996	tog	tog	0	Toghiani, R. K.; Toghiani, H.; Venkateswarlu, G., Vapor-liquid equilibria for methyl tert-butyl ether + methanol and tert- amyl methyl ether + methanol, Fluid Phase Equilib. 1996, 122, 157-168.
1996	vij	ana	1	Vijaya-Kumar, R.; Anand-Rao, M.; Venkateswara-Rao, K.; Ravi-Kumar, Y. V. L.; Prasad, D. H. L., Phys. Chem. Liq. 1996, 32, 177.
1996	wis	bla	0	Wisniak, J.; Blacher, D.; Grooper, D., Isobaric Vapor-Liquid Equilibria in the Systems 2,2'-Oxybis[propane] + Propanol and Methyl Ethanoate + 2,2'-Oxybis[propane], J. Chem. Eng. Data 1996, 41, 1481-1484.
1996	wis		9	Wisniak, J., Isobaric Vapor-Liquid Equilibria in the Systems Methyl Ethanoate + Oxolane and Oxolane + Toluene, J. Chem. Eng. Data 1996, 41, 1079-1082.
1996	zie		1	Zielkiewicz, J., (Vapor + liquid) equilibria in (N-methylformamide + methanol + water) at the temperature 313.15 K, J. Chem. Thermodyn. 1996, 28, 887-894.
1997	art	laf	0	Artigas, H.; Lafuente, C.; Cea, P.; Royo, F. M.; Urieta, J. S., Vapor-Liquid Equilibria for the Binary Systems of 1-Butanol with Some Halohydrocarbons at 40.0 and 101.3 kPa, J. Chem. Eng. Data 1997, 42, 132-136.
1997	dah	kac	0	Dahmani, A.; Kaci, A. A.; Jose, J., Vapour pressures and excess functions of 1 ,4-dimethylpiperazine + n-heptane, or cyclohexane measurement and prediction, Fluid Phase Equilib. 1997, 134, 255-265.
1997	dah	wic	0	Dahmani, O.; Wichterle, I.; Ait-Kaci, A., Isothermal vapour-liquid equilibria for ternary and quaternary systems of butyl chlorides with n-heptane, toluene and

methylcyclohexane at 323.15 K, Fluid Phase Equilib. 1997, 138, 213-230.

1997 dar alk 0 Darwish, N. A.; Al-Khateib, A. A., Isobaric vapor-liquid equilibria of the system toluene + n-butanol at 94.0, 70.5, and 56.4 kPa., Fluid Phase Equilib. 1997, 132, 215-223.

1997 deh fis 0 de Haan, A.; Fischer, K.; Haacke, M.; Aufderhaar, O.; Petri, M.; Gmehling, J., Vapor-Liquid Equilibria and Enthalpies of Mixing for Binary Mixtures of N-Methylacetamide with Aniline, Decane, Ethylene Glycol, Naphthalene, Phenol, and Water, J. Chem. Eng. Data 1997, 42, 875-881.

1997 deh fis 1 De Haan, A. B.; Fischer, K.; Haacke, M.; Gmehling, J., J. Chem. Eng. Data 1997, 42, 597.

1997 fra com 2 Francesconi, R.; Comelli, F., Vapor-Liquid Equilibria, Excess Molar Enthalpies, and Excess Molar Volumes of Dialkyl Carbonates + Methyl tert-Butyl Ether at 298.15 K, J. Chem. Eng. Data 1997, 42, 697-701.

1997 gar per 0 Garriga, R.; Perez, P.; Gracia, M., Ber. Bunsen-Ges. Phys. Chem. 1997, 101, 1466.

1997 gar san 0 Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Vapour pressures at eight temperatures between 278.15 K and 323.15 K and excess molar enthalpies and volumes at T=298.15 K of (n-propylether + methanol), J. Chem. Thermodyn. 1997, 29, 649-659.

1997 gar san 1 Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Isothermal vapour-liquid equilibrium at eight temperatures and excess functions at 298.15 K of di-n-propylether with 1-propanol or 2-propanol, Fluid Phase Equilib. 1997, 138, 131-144.

1997 gar san 2 Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Isothermal vapour-liquid equilibrium at eight temperatures and excess functions at 298.15 K of di-n-propylether with 1-propanol or 2-propanol, Fluid Phase Equilib. 1997, 138, 131-144.

1997 gar san 3 Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Excess Gibbs free energies at several temperatures and excess enthalpies and volumes at 298.15 K of butanenitrile with 2-methyl-i -propanol or 2-methyl-2-propanol, Fluid Phase Equilib. 1997, 130, 195-206.

1997 hu tam 1 Hu, J.; Tamura, K.; Murakami, S., Excess thermodynamic properties of binary mixtures of ethyl formate with benzene, ethanol, and 2,2,2-trifluoroethan-1-ol at 298.15 K, Fluid Phase Equilib. 1997, 131, 197-212.

1997 ilo 0 Iloukhani, H., Excess Molar Enthalpies for Binary Mixtures with Trichloroethylene + Alkan-1-ols (C3-C8) at 298.15 K, J. Chem. Eng. Data 1997, 1997, 802-4.

1997 iul ham 0 Iulian, O.; Hamplea, L. -M.; Jinescu, G., Hung. J. Ind. Chem. 1997, 25, 249.

1997 kur uch 0 Kurihara, K.; Uchiyama, M.; Kojima, K., Isothermal Vapor-Liquid Equilibria for Benzene + Cyclohexane + 1-Propanol and for Three Constituent Binary Systems, J. Chem. Eng. Data 1997, 42, 149-154.

1997 let dom 0 Letcher, T. M.; Domanska, U., Excess molar enthalpies of (2,2,4-trimethylpentane, or 1-heptene, or 1-hexene, or toluene + methyl 1,1-dimethyl ether) and of (1-heptene, or 1-hexene, or toluene + 1,1-dimethylpropyl ether) at the temperatures 298.15 K and 308.15 K, J. Chem. Thermodyn. 1997, 29, 721-730.

1997 lia zha 0 Liao, D. ; Zhangfa, T.; Benson, G. C.; Lu, B. C.-Y., Excess Enthalpies of Binary Mixtures of Methyl tert-Butyl Ether with Di-n-alkyl Ethers, J. Chem. Eng. Data 1997, 1997, 531-2.

1997 meh cha 0 Mehta, S. K.; Chauhan, R. K.; Triphati, A. D., Excess molar enthalpies of mixtures of pyrrolidin-2-one with methanol, or ethanol, or propan-1-ol, or butan-1-ol, or pentan-1-ol at the temperature 303.15 K, J. Chem. Thermodyn. 1997, 29, 353-358.

1997 miy nak 0 Miyai, K.; Nakamura, M.; Tamura, K., Isotope Effects on Thermodynamic Properties in Four Binary Systems: Water (or Heavy Water) + Dimethylsulfoxide (or N,N-Dimethylformamide) at 25~, J. Solution Chem. 1997, 26, 973-988.

1997 moe cot 0 Moessner, F.; Coto, B.; Pando, C.; Renuncio, J. A. R., Ber. Bunsen-Ges. Phys. Chem. 1997, 101, 1146.

1997 rho bhe 0 Rhodes, J. M.; Bhethanabotla, V. R.; Campbell, S. W., Total Vapor Pressure Measurements for Heptane + 1-Pentanol, + 2-Pentanol, + 3-Pentanol, + 2-Methyl-1-butanol, + 2-Methyl-2-butanol, + 3-Methyl-1-butanol, and + 3-Methyl-2-butanol at 313.15 K, J. Chem. Eng. Data 1997, 42, 731-734.

1997 tak oga 0 Takigawa, T.; Ogawa, H.; Tamura, K.; Murakami, S., Excess enthalpies of binary mixtures {xdioxane isomer + (1 - x)non-polar liquid} at 298.15K, Fluid Phase Equilib.

1997, 136, 257-267.
1997 wis emb 1 Wisniak, J.; Embon, G.; Shafir, R., Isobaric Vapor-Liquid Equilibria in the Systems Methyl 1,1-Dimethylethyl Ether + Methyl Ethanoate and Oxolane + Heptane, J. Chem. Eng. Data 1997, 42, 681-684.
1998 bha mak 1 Bhardwaj, U.; Maken, S.; Singh, K. C., Excess molar Gibbs energies of 2-methylpropan-1-ol with benzene or toluene or o- or m- and p-xylene at 308.15 K in terms of an association model, Fluid Phase Equilib. 1998, 143, 153-161.
1998 dha raj 0 Dharmendira Kumar, M.; Rajendran, M., Effect of Dissolved Salts on the Vapor-Liquid Equilibrium Relationships of Three Miscible Binary Systems at the Pressure of 101.3 kPa, J. Chem. Eng. Jpn. 1998, 31, 749-757.
1998 dra bar 0 Dragoescu, D.; Barhala, A.; Vilcu, R., Vapour pressures and excess Gibbs energy of propane-2-one + chloroalkanes binary mixtures, Fluid Phase Equilib. 1998, 146, 247-259.
1998 fig mal 0 Figurski, G.; Malanowski, S. K., Vapor-liquid equilibrium studies of the ethanol+ethyl acetate system, Fluid Phase Equilib. 1998, 148, 161-169.
1998 fri sch 0 Friese, T.; Schulz, S.; Ulbig, P.; Wagner, K., Effect of NaCl on the excess enthalpies of binary liquid systems, Thermochim. Acta 1998, 310, 87-94.
1998 gar san 0 Garriga, R.; Sanchez, F.; Perez, P.; Gracia, M., Ber. Bunsen-Ges. Phys. Chem. 1998, 102, 14.
1998 mar gie 0 Marczak, W.; Giera, E., Excess and partial molar enthalpies for mixtures of methylpyridine isomers with light and heavy water at T=298.15 K, J. Chem. Thermodyn. 1998, 30, 241-251.
1998 mar por 0 Marongiu, B.; Porcedda, S.; Valenti, R., Linear alkyl-alkanoates+cyclohexane mixtures. Excess enthalpies measurements and DISQUAC analysis of thermodynamic properties, Fluid Phase Equilib. 1998, 145, 99-114.
1998 med fer 0 Medina, C.; Fernandez, J.; Legido, J. L.; Andrade, Paz (see pazand mi), Excess molar enthalpies of (alpha, omega-dichloroalkane + pentanol, or hexanol) at T=298.15 K, J. Chem. Thermodyn. 1998, 30&, 1061-1068.
1998 rao rav 0 Rao, K. V.; Ravi, M. V. A.; Prasad, A. Ravi (see ravipr a), Vapor-Liquid equilibria of 2-propanol-1,4-dioxane mixtures, Fluid Phase Equilib. 1998, 150-151, 775-787.
1998 seg mar 2 Segovia, J. J.; Martin, M. C.; Chamorro, C. R.; Montero, E. A.; Villamanan, M. A., Excess thermodynamic functions for ternary systems containing fuel oxygenates and substitution hydrocarbons 2. Total-pressure data and GE for methyl tert-butyl ether/n-heptane/ 1 -hexene at 313.15 K, Fluid Phase Equilib. 1998, 152, 265-276.
1998 teo aim 0 Teodorescu, M.; Aim, K.; Wichterle, I., Isothermal vapour-liquid equilibria for pentan-3-one + 1,4 dichlorobutane, + trichloromethane, + 1,1,1 4richloroethane, + 1,1,2,2-tetrachloroethane binary mixtures, Fluid Phase Equilib. 1998, 147, 215-228.
1999 auc lor 0 Aucejo, A.; Loras, S.; Munoz, R.; Ordonez, L. M., Isobaric vapor-liquid equilibrium for binary and ternary mixtures of ethanol + 2-methyl-2-propanol and 2-methylpentane + ethanol + 2-methyl-2-propanol., Fluid Phase Equilib. 1999, 162, 241-252.
1999 bro cal 1 Brocos, P.; Calvo, E.; Pineiro, A.; Bravo, R.; Amigo, A.; Roux, A. H.; Roux-Desgranges, G., Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 5. Binary Systems {1,3-Dioxolane + 1-Alkanols}, J. Chem. Eng. Data 1999, 44, 1341-1347.
1999 cal art 0 Calvo, E.; Artal, M.; Embid, J. M. (see munoze j); Velasco, I.; Otin, S., Isothermal Vapor-Liquid Equilibria of 1,3-Dioxolane or 1,4-Dioxane + Hexane or + Cyclohexane or + Ethanol Mixtures at T = 308.15 K, J. Chem. Eng. Data 1999, 44, 193-196.
1999 cal bro 0 Calvo, E.; Brocos, P.; Pineiro, A.; Pintos, M.; Amigo, A.; Bravo, R., Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 4. Binary Systems 1,4-Dioxane + 1-Alkanols, J. Chem. Eng. Data 1999, 44, 948-54.
1999 com fra 1 Comelli, F. ; Francesconi, R.; Castellari, C., Excess Molar Enthalpies of Diethyl Carbonate + Four Butanol Isomers in the Range (288.15-318.15) K, J. Chem. Eng. Data 1999, 44, 739-743.
1999 fra cas 0 Francesconi, R.; Castellari, C.; Comelli, F., Excess Molar Enthalpies and Excess Molar Volumes of Diethyl Carbonate + Some n-Alkoxyethanols at (298.15 and 313.15) K, J. Chem. Eng. Data 1999, 44, 1373-1378.

1999	gon	ort	0	Gonzales, C.; Ortega, J.; Hernandez, P.; Galvan, S., Experimental Determination of Densities and Isobaric Vapor-Liquid Equilibria of Binary Mixtures Formed by a Propyl Alkanoate (Methanoate to Butanoate) + An Alkan-2-ol (C3, C4), J. Chem. Eng. Data 1999, 44, 772-783.
1999	hor	gar	0	Horstman, S.; Gardeler, H.; Bolts, R.; Zudkevitch, D.; Gmehling, J., Vapor-Liquid Equilibria and Excess Enthalpy Data for the Binary Systems 2-Methyltetrahydrofuran with 2,2,4-Trimethylpentane (Isooctane), Ethanol, Toluene, Cyclohexane, and Methylcyclohexane, J. Chem. Eng. Data 1999, 44, 959-64.
1999	hor	gar	2	Horstman, S.; Gardeler, H.; Bolts, R.; Gmehling, J., Vapor-Liquid Equilibria and Excess Enthalpy Data for the Binary Systems Benzene + Benzonitrile and Toluene + Benzonitrile Covering the Temperature Range from 323.15 to 413.15 K, J. Chem. Eng. Data 1999, 44, 539-543.
1999	kim	suz	0	Kimura, T.; Suzuki, K.; Takagi, S., Thermodynamics of liquid mixtures containing methyl methylthiomethyl sulfoxide XVI. Excess enthalpies of some alkylbenzenes.methyl methylthiomethyl sulfoxide and alkylbenzenes.dimethyl sulfoxide at 298.15 K, Thermochim. Acta 1999, 328, 55-64.
1999	kra	ulb	0	Kracht, C.; Ulbig, P.; Schulz, S., Molar excess enthalpies of binary mixtures of the three glycols ethanediol, 1,2-propanediol and 1,2-butanediol with methanol or ethanol, Thermochim. Acta 1999, 337, 209-217.
1999	kra	ulb	1	Kracht, C.; Ulbig, P.; Schulz, S., Molar excess enthalpies of binary mixtures of the three glycols ethanediol, 1,2-propanediol and 1,2-butanediol with methanol or ethanol, Thermochim. Acta 1999, 337, 209-217.
1999	ku	tu	0	Ku, H. -C.; Tu, C. -H., Vapor-Liquid Equilibria of Binary Mixtures Containing Nitroethane with Five Alkyl Esters at 101.3 kPa, J. Chem. Eng. Data 1999, 44, 271-273.
1999	let	gov	0	Letcher, T. M.; Govender, P. U.; Domanska, U., Excess molar enthalpies and volumes of (1-hexyne, or 1-heptyne, or 1-octyne + di-1-methylethyl ether, or 1,1-dimethylethyl methyl ether, or 1,1-dimethylpropyl methyl ether) at the temperature 298.15K, J. Chem. Thermodyn. 1999, 31, 773-786.
1999	let	whi	0	Letcher, T. M.; Whitehead, P. G., H(E,M) and V(E,M) of the polar solvents N-methyl-2-pyrrolidione (C5H9NO), or N,N-dimethylformamide (C3H7NO), or dimethyl sulphoxide (C2H6SO) with 1-hexyne, or 1-heptyne, or 1-octyne at T=298.15, and application of the ERAS theory, J. Chem. Thermodyn. 1999, 31, 1537-1550.
1999	lop	gar	0	Lopez, E. R.; Garcia, J.; Fernandez, J., Excess Properties of Some Methanol + Amide Systems Proposed as Working Fluids for Absorption Machines, J. Chem. Eng. Data 1999, 44, 309-313.
1999	lor	auc	1	Loras, S.; Aucejo, A.; Munoz, R., Isobaric Vapor-Liquid Equilibrium in the Systems Methyl 1,1-Dimethylethyl Ether + 2-Methyl-2-propanol and Methyl 1,1-Dimethylethyl Ether + 2-Methylpentane + 2-Methyhl-2-propanol, J. Chem. Eng. Data 1999, 44, 1169-74.
1999	lor	auc	3	Loras, S.; Aucejo, A.; Munoz, R.; Wisniak, J., Isobaric Vapor-Liquid Equilibrium in the Systems 3-Methylpentane + Ethyl 1,1-Dimethylethyl Ether, + Diisopropyl Ether, and + Tetrahydrofuran, J. Chem. Eng. Data 1999, 44, 583-587.
1999	mar	pen	0	Martinez-Soria, V. ; Pena, M. P. ; Monton, J. B. , Vapor-Liquid Equilibria for the Binary Systems tert-Butyl Alcohol + Toluene, + Isooctane, and + Methylcyclohexane at 101.3 kPa, J. Chem. Eng. Data 1999, 44, 148-151.
1999	ort	her	0	Ortega, J.; Hernandez, P., Thermodynamic Study of Binary Mixtures Containing an Isobutylalkanol and an Alkyl (Ethyl to Butyl) Alkanoate (Methanoate to Butanoate), Contributing with Experimental Values of Excess Molar Enthalpies and Volumes, and Isobaric Vapor-Liquid Equilibria, J. Chem. Eng. Data 1999, 44, 757-771.
1999	rar	hor	0	Rarey, J.; Horstman, S.; Gmehling, J., Vapor-Liquid Equilibria and Vapor Pressure Data for the Systems Ethyl tert-Butyl Ether + Ethanol and Ethyl tert-Butyl Ether + Water, J. Chem. Eng. Data 1999, 44, 532-538.
1999	san	bal	0	Santana, P.; Balseiro, J.; Jimenez, E. (also see Jimene E.); Franjo, C.; Legido, J. L.; Romani, L.; Paz Andrade, M. I., Measurements and Analysis of Excess Molar Enthalpies and Excess Molar Volumes of the Binary Systems {xCH3(CH2)3Cl + (1-x)CH3(CH2)n-1OH} (n = 4 to 8) at T = 298.15 K, J. Chem. Thermodyn. 1999, 31, 547-

554.

1999	seg	mar	0	Segovia, J. J.; Martin, M. C.; Chamorro, C. R.; Villamanan, M. A., Excess thermodynamic properties of binary and ternary mixtures containing methyl 1,1-dimethylethyl ether (MTBE), n-heptane, and methanol at T=313.15K, J. Chem. Thermodyn. 1999, 31, 1231-1246.
1999	tu	ku	0	Tu, C. -H.; Ku, H. -C., Vapor-liquid equilibria of the binary mixtures formed by nitromethane with five alkyl alkanoates at 101.3 kPa., Fluid Phase Equilib. 1999, 155, 287-296.
1999	wis		0	Wisniak, J., PHASE EQUILIBRIA IN THE SYSTEMS 4-METHYL-2-PENTANONE + OCTANE AND HEXANE + 1,3-DIOXOLANE, Phys. Chem. Liq. 1999, 37, 493-503.
1999	wu	li	0	Wu, W.; Li, H.; Han, S., Measurement of isoplethic vapor-liquid equilibrium data by using inclined ebulliometer, Chin. J. Chem. Eng. 1999, 7, 7;166.
2000	bel	bel	0	Belaribi, B. F.; Belaribi-Boukais, G.; Ait Kaci, A.; Jose, J., EQUILIBRES LIQUIDE-VAPEUR ISOTHERMES DE MELANGES BINAIRES, AMINE+AMINE, J. Therm. Anal. Calorim. 2000, 61, 787-803.
2000	bou	bel	0	Boukais-Belaribi, G.; Belaribi, B. F.; Ait-Kaci, A.; Jose, J., Thermodynamics of n-octane + hexynes binary mixtures, Fluid Phase Equilib. 2000, 167, 83-97.
2000	car	gon	0	Carmona, F. J.; Gonzalez, J. A.; de la Fuente, I. G.; Cobos, J. C.; Bhethanabotla, V. R.; Campbell, S. W., Thermodynamic properties of n-alkoxyethanols + organic solvent mixtures. XI. Total vapor pressure measurements for n-hexane, cyclohexane or n-heptane + 2-ethoxyethanol at 303.15 and 323.15 K, J. Chem. Eng. Data 2000, 45, 699-703.
2000	cas	eik	0	Castells, C. B.; Eikens, D. I.; Carr, P. W., Headspace gas chromatographic measurements of limiting activity coeficients of eleven alkanes in organic solvents at 25 C. 1, J. Chem. Eng. Data 2000, 45, 369-375.
2000	com	fra	0	Comelli, F.; Francesconi, R.; Castellari, C., Excess molar enthalpies of binary mixtures containing propylene carbonate + some n-alkoxy - and n-alkoxyethoxy-ethanols at 288.15, 298.15, and 313.15K, Thermochim. Acta 2000, 354, 89-97.
2000	fra	com	0	Francesconi, R.; Comelli, F.; Castellari, C., Excess molar enthalpies and excess molar volumes of binary mixtures containing dialkyl carbonates + anisole or phenetole at (288.15 and 313.15) K, J. Chem. Eng. Data 2000, 45, 544-548.
2000	gor	ora	0	Goral, M.; Oracz, P.; Warycha, S., Vapour-liquid equilibria XIV. The ternary system cyclohexane--methanol--hexane at 293.15 K, Fluid Phase Equilib. 2000, 169, 85-99.
2000	gu	hou	0	Gu, F.; Hou, Y., Salt Effects on the Isobaric Vapor-Liquid Equilibrium for Four Binary Systems, J. Chem. Eng. Data 2000, 45, 467-470.
2000	hof	spo	0	Hofman, T.; Sporzynski, A.; Goldon, A., Vapor-liquid equilibria in ethanol + (butyl methyl ether or dipropyl ether) systems at 308.15, 323.15, and 338.15 K, J. Chem. Eng. Data 2000, 45, 169-172.
2000	ort	gon	0	Ortega, J.; Gonzalez, C.; Pena, J.; Galvan, S., Thermodynamic study on binary mixtures of propyl ehtanoate and an alkan-1-ol (C2-C4). Isobaric vapor-liquid equilibria and excess properties, Fluid Phase Equilib. 2000, 170, 87-111.
2000	tam	osa	1	Tamura, K.; Osaki, A., Thermodynamic properties of the binary mixtures of cyclohexanone with globular species, Thermochim. Acta 2000, 352-353, 11-17.
2000	ven	ram	0	Venkateswarlu, P.; Ramadevi, R. S.; Rao, M. V. P.; Prasad, D. H. L., Excess molar enthalpies of N,N-dimethylformamide with chloroethanes and acetates at 298.15 K, J. Chem. Eng. Data 2000, 45, 515-517.
2000	zhe	zho	0	Zhenghong, G.; Zhonglong, M.; Qin, C. L. W., Isothermal vapor-liquid equilibria of benzene-dimethylformamide and toluene-dimethylformamide systems using a small modified ebulliometer, Fluid Phase Equilib. 2000, 173, 252-262.
2001	art	laf	1	Artigas, H.; Lafuente, C.; Minones, J.; Royo, F. M., Isobaric vapour-liquid equilibrium for the binary mixtures of 2-methyl-2-propanol with some halohydrocarbons at 40.0 and 101.3 kPa, Fluid Phase Equilib. 2001, 192, 49-61.
2001	ber	wic	0	Bernatova, S.; Wichterle, I., Isothermal vapour-liquid equilibria in the ternary system tert-butyl methyl ether + tert-butanol + 2,2,4-trimethylpentane and the three binary subsystems, Fluid Phase Equilib. 2001, 180, 235-245.

2001	car	bhe	0	Carmona, F. J.; Bhethanabotla, V. R.; Campbell, S. W.; Gonzalez, J. A.; Garcia de la Fuente, I.; Cobos, J. C., Thermodynamic properties of (n-alkoxyethanols + organic solvents). XII. Total vapour pressure measurements for (n-hexane, n-heptane or cyclohexane + 2-methoxyethanol) at different temperatures, J. Chem. Thermodyn. 2001, 33, 47-59.
2001	chy	fra	0	Chylinski, K.; Fras, Z.; Malanowski, S., Vapor-Liquid Equilibrium in Phenol + 2-Ethoxyethanol at 363.15 to 383.15 K, J. Chem. Eng. Data 2001, 46, 29-33.
2001	del	hor	0	del Rio, A.; Horstman, S.; Renuncio, J. A. R.; Gmehling, J., Isothermal vapor-liquid equilibrium and excess enthalpy data for the binary systems methyl tert-butyl ether + cyclohexane and ethyl tert-butyl ether + cyclohexane, n-hexane, and n-heptane in a temperature range from 298.15 to 393.15 K, J. Chem. Eng. Data 2001, 46, 1181-1187.
2001	gar	mar	0	Garriga, R.; Martinez, S.; Perez, P.; Gracia, M., Thermodynamic excess properties for binary mixtures of 1-chlorobutane with 2-butanol or 2-methyl-1-propanol, Fluid Phase Equilib. 2001, 181, 203-214.
2001	kec	dah	0	Kecira, Z.; Dahmani, A., Excess enthalpies of alkanediamines + benzene or + toluene mixtures Predictions using group contribution models, Thermochim. Acta 2001, 369, 1-7.
2001	kul	des	0	Kul, I.; DesMarteau, D. D.; Beyerlein, A. L., Vapor-liquid equilibria for CF3OCF2H/fluorinated ethane and CF3SF5/fluorinated ethane mixtures as potential R22 alternatives, Fluid Phase Equilib. 2001, 185, 241-253.
2001	let	lac	0	Letcher, T. M.; Lachwa, J.; Domanska, U., The excess molar volumes and enthalpies of (N-methyl-2-pyrrolidinone + an alcohol) at T = 298.15 K and the application of the ERAS theory, J. Chem. Thermodyn. 2001, 33, 1169-1179.
2001	mar	gar	0	Martinez, S.; Garriga, R.; Perez, P.; Gracia, M., Isothermal Vapor-Liquid Equilibrium of 1-Chlorobutane with Ethanol or 1-Hexanol at Ten Temperatures between 278.15 K and 323.15 K, J. Chem. Eng. Data 2001, 46, 535-540.
2001	miy	nak	1	Miyamoto, S.; Nakamura, S.; Iwai, Y.; Arai, Y., Measurement of isothermal vapor-liquid equilibria for binary and ternary systems containing monocarboxylic acid, J. Chem. Eng. Data 2001, 46, 1225-1230.
2001	mun	kra	0	Munoz, L. A. L.; Krahenbuhl, M. A., Isobaric Vapor Liquid Equilibrium (VLE) Data of the Systems n-Butanol + Butyric Acid and n-Butanol + Acetic Acid, J. Chem. Eng. Data 2001, 46, 120-124.
2001	ort	gon	0	Ortega, J.; Gonzales, C.; Galvan, S., Vapor-Liquid Equilibria for Binary Systems Composed of a Propyl Ester (Ethanoate, Propanoate, Butanoate) + an n-Alkane (C7, C9), J. Chem. Eng. Data 2001, 46, 904-912.
2001	rho	gri	0	Rhodes, J. M.; Griffin, T. A.; Lazzaroni, M. J.; Bhethanabotla, V. R.; Campbell, S. W., Total pressure measurements for benzene with 1-propanol, 2-propanol, 1-pentanol, 3-pentanol, and 2-methyl-2-butanol at 313.15 K, Fluid Phase Equilib. 2001, 179, 217-229.
2001	rol	kra	0	Rolemberg, M. P.; Krahenbuhl, M. A., Vapor-Liquid Equilibria of Binary and Ternary Mixtures of Benzene, Cyclohexane, and Chlorebenzene at 40 kPa and 101.3 kPa, J. Chem. Eng. Data 2001, 46, 256-260.
2001	uus	pok	0	Uusi-Kyyny, P.; Pokki, J. -P.; Liukkonen, S., Vapor Liquid Equilibrium for the Binary Systems of 2-Methyl-2-Propanol + 2,4,4,-Trimethyl-1-Pentene at 333 K and 348 K and 2-Butanol + 2,4,4-Trimethyl-1-Pentene at 360 K, J. Chem. Eng. Data 2001, 46, 686-691.
2001	wis	aha	0	Wisniak, J.; Aharon, L.; Nagar, Y.; Segura, H.; Reich, R., Effect of pressure on the vapor-liquid equilibria of the system methanol + ethyl 1,1-dimethylethyl ether, Phys. Chem. Liq. 2001, 39, 723-737.
2001	yok	zhe	0	Yokozeki, A.; Zhelezny, V. P.; Kornilov, D. V., Phase behaviors of ammonia/R-125 mixtures, Fluid Phase Equilib. 2001, 185, 177-188.
2002	bjo	sid	1	Bjola, B. S.; Siddiqi, M. A.; Svejda, P., Molar Excess Enthalpies of Binary Liquid Mixtures of -Valerolactone or -Valerolactone + Benzene, + Toluene, or + Ethylbenzene at 293.15 K and Atmospheric Pressure, J. Chem. Eng. Data 2002, 47, 254-257.
2002	cha	seg	0	Chamorro, C. R.; Segovia, J. J.; Martin, M. C.; Villamanan, M. A., Isothermal v.l.e. and excess molar Gibbs energy of binary and ternary mixtures containing diisopropyl ether, n-heptane and isopropanol at T = 313.15 K, J. Chem. Thermodyn. 2002, 34, 13-28.
2002	cha	seg	1	Chamorro, C. R.; Segovia, J. J.; Martin, M. C.; Villamanan, M. A., Vapor-liquid

				equilibrium of octane-enhancing additives in gasolines 4. Total pressure data and excess gibbs energy for ternary mixtures containing isopropyl ether or benzene and n-heptane + 1-hexene at 313.15 K, Fluid Phase Equilib. 2002, 193, 289-301.
2002	cha	seg	2	Chamorro, C. R.; Segovia, J. J.; Martin, M. C.; Villamanan, M. A., Isothermal v.l.e. and excess molar Gibbs energy of binary and ternary mixtures containing diisopropyl ether, n-heptane and isopropanol at T = 313.15 K, J. Chem. Thermodyn. 2002, 34, 13-28.
2002	deb	bhe	0	DeBord, A. M.; Bhethanabotla, V. R.; Campbell, S. W., Total Vapor Pressure Measurements for 2-Ethoxyethanol with Methanol, Ethanol, 1-Propanol, and 2-Propanol at 313.15 K, J. Chem. Eng. Data 2002, 47, 1355-8.
2002	fen	vrb	0	Fenclova, D.; Vrbka, P.; Dohnal, V.; Rehak, K.; Garcia-Miaja, G., (Vapour + liquid) equilibria and excess molar enthalpies for mixtures with strong complex formation. Trichloromethane or 1-bromo-1-chloro-2,2,2-trifluoroethane (halothane) with tetrahydropyran or piperidine, J. Chem. Thermodyn. 2002, 34, 361-376.
2002	gar	mar	0	Garriga, R.; Martinez, S.; Perez, P.; Gracia, M., Vapor Pressures at Several Temperatures between 278.15 and 323.15 K and Excess Functions at T = 298.15 K for 1-Bromobutane with 1-Butanol or 2-Methyl-2-propanol, J. Chem. Eng. Data 2002, 47, 322-328.
2002	hak	ait	0	Hakem, H.; Ait-Kaci, A., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 2002, 30(4), 277-285.
2002	hor	mou	0	Horstmann, S.; Mougin, P.; Lecomte, F.; Fischer, K.; Gmehling, J., Phase Equilibrium and Excess Enthalpy Data for the System Methanol + 2,2?-Diethanolamine + Water, J. Chem. Eng. Data 2002, 47, 1496-1501.
2002	hov	rou	0	Hovorka, S.; Roux, A. H.; Roux-Desgranges, G.; Dohnal, V., Limiting Partial Molar Excess Enthalpies of Selected Organic Compounds in Water at 298.15 K, J. Chem. Eng. Data 2002, 47, 954-959.
2002	lub	ban	0	Lubomska, M.; Banas, A.; Malanowski, S. K., Vapor-Liquid Equilibrium in Binary Systems Formed by Allyl Alcohol with Benzene and with Cyclohexane, J. Chem. Eng. Data 2002, 47, 1466-1471.
2002	ort		0	Ortega, J., Int. DATA Ser., Sel. Data Mixtures, Ser. A, 2002, 30(4), 241-252.
2002	rod	can	1	Rodriguez, A.; Canosa, J.; Dominguez, A.; Tojo, J., Isobaric vapour-liquid equilibria of dimethyl carbonate with alkanes and cyclohexane at 101.3 kPa, Fluid Phase Equilib. 2002, 198, 95-109.
2002	seg	mej	0	Segura, H.; Mejia, A.; Reich, R.; Wisniak, J.; Loras, S., ISOBARIC VAPOR-LIQUID EQUILIBRIA AND DENSITIES FOR THE SYSTEM ETHYL 1,1-DIMETHYLETHYL ETHER + 2-PROPANOL, Phys. Chem. Liq. 2002, 40, 685-702.
2002	swi	mal	0	Swiatek, B.; Malanowski, S., Vapor-Liquid Equilibrium in m-Xylene + Cyclohexanol at 19.99 and 94.93 kPa, J. Chem. Eng. Data 2002, 47, 478-481.
2002	wan	yan	0	Wang, H.; Yang, B., Measurement of Isobaric Vapor-Liquid Equilibrium Data for the System of Ether-Alcohol-Water, Huaxue Gongcheng 2002, 30, 8;57.
2002	yan	wan	0	Yang, B.; Wang, H., Vapor-Liquid Equilibrium for Mixtures of Water, Alcohols, and Ethers, J. Chem. Eng. Data 2002, 47, 1324-1329.
2003	arc	arc	0	Arce, A.; Arce, A.; Martinez-Ageitos, J.; Rodil, E.; Soto, A., (Vapour + liquid) equilibrium of (DIPE + IPA + water) at 101.32 kPa, J. Chem. Thermodyn. 2003, 35, 871-884.
2003	fel	gri	0	Fele, L.; Grilc, V., Separation of Furfural from Ternary Mixtures, J. Chem. Eng. Data 2003, 48, 564-570.
2003	gar	mar	0	Garriga, R.; Martinez, S.; Perez, P.; Gracia, M., Vapour pressures at 10 different temperatures between 278.15 and 323.15 K for binary mixtures of 1-bromobutane with ethanol or 1-hexanol, Fluid Phase Equilib. 2003, 207, 97-109.
2003	har	wit	0	Harris, R. A.; Wittig, R.; Gmehling, J.; Letcher, T. M.; Ramjugernath, D.; Raal, J. D., Vapor-Liquid Equilibria for Four Binary Systems at 363.15 K: N-Methylformamide + Hexane, + Benzene, + Chlorobenzene, and + Acetonitrile, J. Chem. Eng. Data 2003, 48, 341-343.
2003	jim	seg	0	Jimenez, J.; Segade, Luisa; Jimenez, E. (also see Jimene E.); del Rio, A.; Renuncio, J. A. R.; Pando, C., Vapor-liquid equilibria for the binary system hexan-1-ol + tert-butyl methyl ether (MTBE) at 298.15, 318.15, and 338.15 K, Fluid Phase Equilib. 2003, 208,

115-121.
2003 kim mat 0 Kimura, T.; Matsushita, T.; Kamiyama, T., Excess enthalpies of alkane-1-amines {CnH2n+1NH2, n = 3 8} + methyl methylthiomethyl sulfoxide and +dimethyl sulfoxide at 298.15 K, Thermochim. Acta 2003, 405, 129-136.
2003 lie lin 0 Lien, P.-J.; Lin, H. M.; Lee, M. J., Excess Molar Enthalpies for Binary Mixtures of Ethanol + Acetone, + Octane, + Cyclohexane and 1-Propanol + Acetone, + Octane, + Heptane at 323.15, J. Chem. Eng. Data 2003, 48, 359-361.
2003 mar gar 0 Martinez, S.; Garriga, R.; Perez, P.; Gracia, M., Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol, J. Chem. Eng. Data 2003, 48, 294-301.
2003 per mai 0 Perez, E.; Mainar, A. M.; Santafe, J.; Urieta, J. S., Excess Enthalpy, Excess Volume, Viscosity Deviation, and Speed of Sound Deviation for the Mixture Tetrahydropyran + 2,2,2-Trifluoroethanol at (283.15, 298.15, and 313.15) K, J. Chem. Eng. Data 2003, 48, 723-726.
2003 pok reh 0 Pokki, J. -P.; Rehak, K.; Kim, Y.; Matous, J.; Aittamaa, J., Vapor-Liquid Equilibrium Data at 343 K and Excess Molar Enthalpy Data at 298 K for the Binary Systems of Ethanol + 2,4,4-Trimethyl-1-pentene and 2-Propanol + 2,4,4-Trimethyl-1-pentene, J. Chem. Eng. Data 2003, 48, 75-80.
2003 rey har 0 Reyes, A.; Haro, I.; Artigas, H.; Lafuente, C., Vapor-Liquid Equilibrium and Volumetric Measurements for Binary Mixtures of 1,4-Dioxane with Isomeric Chlorobutanes, J. Chem. Eng. Data 2003, 48, 887-891.
2003 rod can 2 Rodriguez, A.; Canosa, J.; Dominguez, A.; Tojo, J., Isobaric Phase Equilibria of Diethyl Carbonate with Five Alcohols at 101.3 kPa, J. Chem. Eng. Data 2003, 48, 86-91.
2003 seg mej 0 Segura, H.; Mejia, A.; Reich, R.; Wisniak, J.; Loras, S., ISOBARIC VAPOR LIQUID EQUILIBRIA AND DENSITIES FOR THE BINARY SYSTEMS OXOLANEpETHYL 1,1-DIMETHYLETHYL ETHER, OXOLANEp2-PROPANOL AND PROPAN-2-ONEpTRICHLOROMETHANE, Phys. Chem. Liq. 2003, 41, 283-301.
2003 yu qiu 0 Yu, S.; Qiu, Z.; Li, F.; Yu, Z.; Sun, W., ISOBARIC VAPOR- LIQUID EQUILIBRIUM OF BINARY AND TERNARY SYSTEMS FOR ETHYLTRICHLOROSILANE - METHYLVINYLDICHLOROSILANE - TOLUENE, Huagong Xuebao 2003, 54, 4;846.
2003 zar ilo 0 Zarei, H. A.; Iloukhani, H., Excess molar enthalpies of formamide + some alkan-1-ols (C1 C6) and their correlations at 298.15 K, Thermochim. Acta 2003, 405, 123-128.
2004 chy fra 0 Chylinski, K.; Fras, Z.; Malanowski, S. K., Vapor-Liquid Equilibrium for Phenol + r-Methyl Benzyl Alcohol and 2-Ethoxyethanol + n-Butyl Formate, J. Chem. Eng. Data 2004, 49, 2-6.
2004 gar pas 0 Garriga, R.; Pascual, P.; Gracia, M., Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with cyclohexane at nine temperatures, Fluid Phase Equilib. 2004, 216, 285-292.
2004 hor gar 0 Horstmann, S.; Gardeler, H.; Wilken, M.; Fischer, K.; Gmehling, J., Isothermal Vapor-Liquid Equilibrium and Excess Enthalpy Data for the Binary Systems Water + 1,2-Ethanediol and Propene + Acetophenone, J. Chem. Eng. Data 2004, 49, 1508-1511.
2004 lub mal 0 Lubomska, M.; Malanowski, S. K., Vapor-Liquid Equilibrium for Benzene + 2-Methylpentane and Allyl Alcohol + 1-Propanol, J. Chem. Eng. Data 2004, 49, 1488-1493.
2004 mak bha 0 Maken, S.; Bhardwaj, U.; Deshwal, B. R.; Singh, K. C.; Park, J.-W.; Han, S. D., VAPOR LIQUID EQUILIBRIA OF 2-BUTANOLQAROMATIC HYDROCARBONS AT 308.15K, Phys. Chem. Liq. 2004, 42, 447-456.
2004 miy 0 Miyano, Y., Henry's constants and infinite dilution activity coefficients of propane, propene, butane, isobutene, 1-butene, isobutane, trans-2-butene and 1,3-butadiene in 1-propanol at T=(260 to 340) K, J. Chem. Thermodyn. 2004, 36, 101-106.
2004 ort esp 2 Ortega, J.; Espiau, F.; Postigo, M., Excess Properties and Isobaric Vapor-Liquid Equilibria for Binary Mixtures of Methyl Esters + tert-Butanol, J. Chem. Eng. Data 2004, 49, 1602-1612.
2004 psu wic 0 Psutka, S.; Wichterle, I., Isothermal vapour-liquid equilibria in the binary and ternary systems composed of 2-propanol, diisopropyl ether and 1-methoxy-2-propanol, Fluid

Phase Equilib. 2004, 220, 161-165.

2004 rey laf 0 Reyes, A.; Lafuente, C.; Minones, J.; Kragl, U.; Royo, F. M., (Vapour + liquid) equilibrium of binary mixtures (1,3-dioxolane or 1,4-dioxane + 2-methyl-1-propanol or 2-methyl-2-propanol) at isobaric conditions, J. Chem. Thermodyn. 2004, 36, 87-93.

2004 ste sun 0 Steyer, F.; Sundmacher, K., VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol, J. Chem. Eng. Data 2004, 49, 1675-1681.

2004 wan ben 0 Wang, Z.; Benson, G. C.; Lu, B. C.-Y., Excess enthalpies of binary mixtures of 1-hexene with some branched alkanes at the temperature 298.15 K, J. Chem. Thermodyn. 2004, 36, 45-47.

2005 ben ait 0 Ben-makhlouf-Hakem, H.; Ait-Kaci, A.; Jose, J., Vapour pressures and excess functions of (3,5; 2,6)dimethylpyridine + n-hexane, n-heptane and n-octane measurement and prediction, Fluid Phase Equilib. 2005, 232, 189-206.

2005 gar per 0 Garriga, R.; Perez, P.; Gracia, M., Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachloroethane or tetrachloroethene with tetrachloromethane at nine temperatures, Fluid Phase Equilib. 2005, 227, 71-78.

2005 gar per 1 Garriga, R.; Perez, P.; Gracia, M., Total vapour pressure and excess Gibbs energy for binary mixtures of 1,1,2,2-tetrachlorethane or tetrachloroethene with benzene at nine temperatures, Fluid Phase Equilib. 2005, 227, 79-86.

2005 kim sap 0 Kim, Y.; Sapei, E.; Keskinen, K. I.; Aittamaa, J., Vapor Liquid Equilibrium for Binary System of 2-Propanol + 1,1-Diethoxyethane at 353 K and Ethyl ethanoate + 1,1-Diethoxyethane at 348 K and 2-Propanone + 1,1-Diethoxyethane at 328 K, J. Chem. Eng. Data 2005, 50, 364-368.

2005 mon mun 0 Monton, J. B.; Munoz, R.; Burguet, M. C.; de la Torre, J., Isobaric vapor-liquid equilibria for the binary systems isobutyl alcohol + isobutyl acetate and tert-butyl alcohol + tert-butyl acetate at 20 and 101.3 kPa, Fluid Phase Equilib. 2005, 227, 19-25.

2005 mun mon 0 Munoz, R.; Monton, J. B.; Burguet, M. C.; de la Torre, J., Phase equilibria in the systems isobutyl alcohol +N,N-dimethylformamide, isobutyl acetate +N,N-dimethylformamide and isobutyl alcohol + isobutyl acetate +N,N-dimethylformamide at 101.3 kPa, Fluid Phase Equilib. 2005, 232, 62-69.

2005 ort esp 0 Ortega, J.; Espiau, F.; Postigo, M., Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol, J. Chem. Eng. Data 2005, 50, 444-454.

2005 per rod 1 Pereiro, A. B.; Rodriguez, A.; Canosa, J.; Tojo, J., Measurement of Isobaric Vapor - Liquid Equilibria of Dimethyl Carbonate with Acetone, 2-Butanone and 2-Pentanone at 101.3 kPa and Density and Speed of Sound at 298.15 K, J. Chem. Eng. Data 2005, 50, 481-486.

2005 psu wic 1 Psutka, S.; Wichterle, I., Vapor-Liquid Equilibria in the Binary and Ternary Systems Composed of 2-Methylpentane, 3-Methyl-2-butanone and 3-Methyl-2-butanol, J. Chem. Eng. Data 2005, 50, 1338-1342.

2005 rom vil 0 Romero, C.; Villares, A.; Haro, M.; Giner, B.; Lafuente, C., Experimental and predicted vapour liquid equilibrium of 1,4-dioxane with cycloalkanes and benzene, Fluid Phase Equilib. 2005, 238, 1-6.

2005 san gme 0 Sanz, M. T.; Gmehling, J., Isothermal Vapor-Liquid Equilibrium, Excess Enthalpy Data and Activity Coefficients at Infinite Dilution for the Binary System Water + Methyl Lactate, J. Chem. Eng. Data 2005, 50, 85-88.

2005 vit val 0 Vittal Prasad, T. E.; Vallinatha Sarma, A.; Sudhindra, B. V.; Veerendra, G.; Venugopalachary, K.; Prasad, D.H.L., Bubble temperature measurements on seven binary mixtures formed by ethylbenzene at 94.7 kPa, J. Chem. Thermodyn. 2005, 37, 758-761.

2006 auc lor 0 Aucejo, A.; Loras, S.; Martinez-Soria, V.; Becht, N.; Del Rio, G., Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene, J. Chem. Eng. Data 2006, 51, 1051-1055.

2006 ben ait 0 Ben-makhlouf-Hakem, H.; Ait-Kaci, A.; Jose, J., Isothermal vapour pressures and excess functions of 3,5- and 2,6-dimethylpyridine with toluene measurement and prediction, Fluid Phase Equilib. 2006, 242, 1-9.

2006	bou	bel	0	Boukais-Belaribi, G.; Belaribi, B. F.; Ait-Kaci, A.; Jose, J., Thermodynamics of isomeric hexynes +MTBE binary mixtures, Fluid Phase Equilib. 2006, 248, 181-190.
2006	erl	zay	0	Erlin, S.; Zaytseva, A.; Uusi-Kyyny, P.; Younghun, K.; Keskinen, K. I.; Aittamaa, J., Vapor-Liquid Equilibrium for Binary System of 1-Propanethiol, Thiophene, and Diethyl Sulfide with Toluene at 90.03 kPa, J. Chem. Eng. Data 2006, 51, 1372-1376.
2006	fuk	mat	0	Fukano, M.; Matsuda, H.; Kurihara, K.; Ochi, K., Ebulliometric Determination of Vapor-Liquid Equilibria for Methanol + Ethanol + Dimethyl Carbonate, J. Chem. Eng. Data 2006, 51, 1458-1463.
2006	gar	per	0	Garriga, R.; Perez, P.; Gracia, M., Isothermal (vapour + liquid) equilibrium for binary mixtures of (tetrahydrofuran + 1,1,2,2-tetrachloroethane or tetrachloroethene) at nine temperatures, J. Chem. Thermodyn. 2006, 38, 348-358.
2006	gil	wil	2	Giles, N. F.; Wilson, G. M., Vapor-Liquid Equilibria on Four Binary Systems: 2-Phenylpropionaldehyde + Phenol, Propylene Glycol Monomethyl Ether + Nitroethane, Dimethyl Ether + Propylene, and N-Butyric Acid + Propionic Acid, J. Chem. Eng. Data 2006, 51, 1966-1972.
2006	gin	mar	0	Giner, B.; Martin, S.; Artigas, H.; Lopez, M. C.; Lafuente, C., Study of Weak Molecular Interactions through Thermodynamic Mixing Properties, J. Phys. Chem. B 2006, 110, 17291-17695.
2006	hid	dah	0	Hidouche, M.; Dahmani, O., Isobaric vapor liquid equilibria for binary systems of butyl chlorides with heptane, toluene and cyclohexane at 101.3, 80.0 and 53.3 kPa, Fluid Phase Equilib. 2006, 243, 1-8.
2006	kim	kha	0	Kimura, T.; Khan, M. A.; Ishii, M.; Ueda, K.; Matsushita, T.; Kamiyama, T.; Fujisawa, M., Enthalpic changes on mixing two couples of S- and R-enantiomers of benzyl-(1-phenyl-ethyl)-amine, 1-phenylethylamine, 1-phenyl-ethanol, butyric acid oxiranylmethyl ester, 4-methyl-[1,3]dioxolan-2-one, 2-chloro-methyloxirane and 3-hydroxyisobutyric acid methyl ester at T = 298.15 K, J. Chem. Thermodyn. 2006, 38, 1042-1048.
2006	kim	kit	0	Kimura, T.; Kitai, T.; Kamiyama, T.; Fujisawa, M., Excess enthalpies of binary mixtures of some propylamines + some propanols at 298.15K, Thermochim. Acta 2006, 450, 91-95.
2006	lob	fer	0	Lobo, L. Q.; Ferreira, A. G. M.; Fonseca, I. M. A.; Senra, A. M. P., Vapour pressure and excess Gibbs free energy of binary mixtures of hydrogen sulphide with ethane, propane, and n-butane at temperature of 182.33 K, J. Chem. Thermodyn. 2006, 38, 1651-1654.
2006	mis	tsi	0	Missopolinou, D.; Tsivintzelis, I.; Panayiotou, C., Excess enthalpies of binary mixtures of 2-ethoxyethanol with four hydrocarbons at 298.15, 308.15, and 318.15K An experimental and theoretical study, Fluid Phase Equilib. 2006, 245, 89-101.
2006	ort	esp	0	Ortega, J.; Espiau, F.; Sabater, G.; Postigo, M., Correlation and Prediction of Excess Quantities and Vapor-Liquid Equilibria of Alkyl Esters + tert-Butyl Alcohol: Experimental Data for Propyl Esters + tert-Butyl Alcohol, J. Chem. Eng. Data 2006, 51, 730-742.
2006	pap	ana	0	Pappa, G. D.; Anastasi, C.; Voutsas, E. C., Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions, Fluid Phase Equilib. 2006, 243, 193-197.
2006	pra	jai	0	Prasad, T. E. V.; Jaiswal, A.; Prasad, S.; Harish, G.; Krupavaram, N.; Sirisha, N. M.; Ashok, K.; Kumar, Y. N.; Venkanna, N.; Prasad, D.H.L., Activity coefficients of the binary mixtures of a-cresol or p-cresol with C l-C4 aliphatic alcohols near ambient pressure, Fluid Phase Equilib. 2006, 244, 86-98.
2006	pra	sra	0	Prasad, T. E. V.; Sravani, Y.; Ranjita, V. S.; Prasad, D. H. L., Excess Gibbs energies of selected binary mixtures formed by N,N-dimethyl formamide at 95.5 kPa, Fluid Phase Equilib. 2006, 249, 49-54.
2006	res	gon	0	Resa, J. M.; Gonzalez, C.; Goenaga, J. M., Density, Refractive Index, Speed of Sound at 298.15 K, and Vapor-Liquid Equilibria at 101.3 kPa for Binary Mixtures of Propanol + 2-Methyl-1-butanol and Propanol + 3-Methyl-1-butanol, J. Chem. Eng. Data 2006, 51, 73-78.
2006	vil	cha	0	Villamanan, R. M.; Chamorro, C. R.; Martin, M. C.; Segovia, J. J., Phase equilibria properties of binary and ternary systems containing di-isopropyl ether + isobutanol + benzene at 313.15K, Fluid Phase Equilib. 2006, 239, 178-182.

2006	vil	mar	0	Villamanan, R. M.; Martin, M. C.; Chamorro, C. R.; Segovia, J. J., Vapor-Liquid Equilibrium of Binary and Ternary Mixtures Containing Isopropyl Ether, 2-Butanol, and Benzene at T) 313.15 K, J. Chem. Eng. Data 2006, 51, 148-152.
2006	vil	mar	1	Villamanan, R. M.; Martin, M. C.; Chamorro, C. R.; Segovia, J. J., Vapor-Liquid Equilibrium of Binary and Ternary Mixtures Containing Isopropyl Ether, 2-Butanol, and Benzene at T) 313.15 K, J. Chem. Eng. Data 2006, 51, 148-152.
2007	cla	mar	0	Clara, R. A.; Marigliano, A. C. G.; Solimo, H. N., Density, viscosity, isothermal (vapour + liquid) equilibrium, excess molar volume, viscosity deviation, and their correlations for chloroform + methyl isobutyl ketone binary system, J. Chem. Thermodyn. 2007, 39, 261-267.
2007	did	ait	0	Didaoui-Nemouchi, S.; Ait-Kaci, A.; Jose, J., Vapour liquid equilibria, enthalpy of mixing of binary mixtures containing diisopropylether DIPE and monoaromatic hydrocarbons Experimental results and modelling, Fluid Phase Equilib. 2007, 255, 78-85.
2007	gar	emb	0	Garcia-Gimenez, P.; Embid, J. M.; Velasco, I.; Otin, S., (Vapour + liquid) equilibria and excess molar enthalpies for binary mixtures containing N,N-dialkylamides and 1-chloroalkanes, J. Chem. Thermodyn. 2007, 39, 1264-1271.
2007	has	usl	0	Hasdemir, M.; Uslu, H., Isobaric (vapour + liquid) equilibria data for the binary systems {1,2-dichloroethane (1) + toluene (2)} and {1,2-dichloroethane (1) + acetic acid (2)} at atmospheric pressure, J. Chem. Thermodyn. 2007, 39, 1189-1195.
2007	lla	mon	2	Lladosa, E.; Monton, J. B. ; Burguet, M.; Munoz, R., Effect of pressure and the capability of 2-methoxyethanol as a solvent in the behaviour of a diisopropyl ether isopropyl alcohol azeotropic mixture, Fluid Phase Equilib. 2007, 262, 271-279.
2007	mal		0	Malanowski, S. K., Vapor-Liquid Equilibrium for Benzaldehyde with 1-Methylethylbenzene and for 2-Methyl-propan-2-ol with 2,4,4-Trimethyl-1-pentene, J. Chem. Eng. Data 2007, 52, 239-243.
2007	mej	seg	0	Mejia, A.; Segura, H.; Cartes, M.; Bustos, P., Vapor liquid equilibrium, densities, and interfacial tensions for the system ethyl 1,1-dimethylethyl ether (ETBE) + propan-1-ol, Fluid Phase Equilib. 2007, 255, 121-130.
2007	mun	hen	1	Mundhwa, M.; Henni, A., Molar excess enthalpy (HEm) for various {alkanolamine (1) + water (2)} systems at T = (298.15, 313.15, and 323.15) K, J. Chem. Thermodyn. 2007, 39, 1439-1451.
2007	neg	bel	0	Negadi, L.; Belabbaci, A.; Kaci, A. A.; Jose, J., Isothermal Vapor-Liquid Equilibria and Excess Enthalpies of (Propyl Ethanoate + Heptane), (Propyl Ethanoate + Cyclohexane), and (Propyl Ethanoate + 1-Hexene), J. Chem. Eng. Data 2007, 52, 47-55.
2007	orc	mig	0	Orchilles, A. V.; Miguel, P. J.; Vercher, E.; Martinez-Andreu, A., Ionic Liquids as Entrainers in Extractive Distillation: Isobaric Vapor-Liquid Equilibria for Acetone + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate, J. Chem. Eng. Data 2007, 52, 141-147.
2007	ort	mar	0	Ortega, J.; Marrero, E., Thermodynamic study of (alkyl esters + a,x-alkyl dihalides) V. Hex and Vex for 25 binary mixtures {xCu-1H2u-1CO2CH3 + (1-x)a,x-ClCH2(CH2)v-2CH2Cl}, where u = 1 to 5, a = 1 and v = x = 2 to 6, J. Chem. Thermodyn. 2007, 39, 742-757.
2007	ort	sab	0	Ortega, J.; Sabater, G.; de la Nuez, I.; Quintana, J. J., Isobaric Vapor-Liquid Equilibrium Data and Excess Properties of Binary Systems Comprised of Alkyl Methanoates + Hexane, J. Chem. Eng. Data 2007, 52, 215-225.
2007	pra	sud	0	Prasad, T. E. V.; Sudheendra, B. V.; Veerendra, G.; Venugopalachary, K.; Sarma, A. V.; Prasad, D.H.L., Bubble point temperatures of the binary mixtures of cyclohexanone with C1-C4 aliphatic alcohols at 94.8 kPa, Phys. Chem. Liq. 2007, 45, 525-530.
2007	pra	suj	0	Prasad, T. E. V.; Sujana, V.; Manasa, M.; Prasad, D. H. L., Vapor-liquid equilibria of some binary mixtures formed by methylethylketone at 94.7 kPa, Phys. Chem. Liq. 2007, 45, 419-423.
2007	uno	kik	0	Uno, S.; Kikkawa, S.; Matsuda, H.; Kurihara, K.; Tochigi, K.; Ochi, K., Measurement of Vapor-Liquid Equilibria for Binary Systems Using a Hold-Up Compensable Ebulliometer, J. Chem. Eng. Jpn. 2007, 40, 288-294.
2007	uno	kur	0	Uno, S.; Kurihara, K.; Ochi, K.; Kojima, K., Determination and correlation of vapor

liquid equilibrium for binary systems consisting of close-boiling components, Fluid Phase Equilib. 2007, 257, 139-146.
2008 abb gme 0 Abbas, R.; Gmehling, J., Vapour liquid equilibria, azeotropic data, excess enthalpies, activity coefficients at infinite dilution and solid liquid equilibria for binary alcohol ketone systems, Fluid Phase Equilib. 2008, 267, 119 -126.
2008 ami bou 0 Amireche-Ziar, F.; Boukais-Belaribi, G., Isothermal vapour liquid equilibria of binary systems of 1,2-dichloroethane with ethers, Fluid Phase Equilib. 2008, 268, 39-44.
2008 che dag 0 Checoni, R. F.; D'Agostini, L.; Francesconi, Artur Zaghini, Experimental study and ERAS modeling of the excess molar enthalpy of (acetonitrile + 1-heptanol or 1-octanol) mixtures at (298.15, 313.15, and 323.15) K and atmospheric pressure, J. Chem. Thermodyn. 2008, 40, 759-765.
2008 dra bar 0 Dragoescu, D.; Barhala, A.; Teodorescu, M., Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K, Fluid Phase Equilib. 2008, 267, 70-78.
2008 li yan 0 Li, S.; Yan, W.; Dong, H., Excess Enthalpies of 2,4-Pentanedione + (Methanol, + Ethanol, + 1-Propanol, and + 2-Propanol) at T = (298.15, 313.15, and 328.15) K and p = (0.1 and 10.0) MPa, J. Chem. Eng. Data 2008, 53, 194-198.
2008 li yan 1 Li, S.; Yan, W., Determination and correlation of molar excess enthalpies of binary systems 2,4-pentanedione + (1-butanol, + 2-methyl-1-propanol, + 1-pentanol, + 1-heptane, + ethyl acetate, and + water), Fluid Phase Equilib. 2008, 265, 37-45.
2008 mej seg 0 Mejia, A.; Segura, H.; Cartes, M., Vapor-liquid equilibrium, densities, and interfacial tensions for the system benzene + propan-1-ol, Phys. Chem. Liq. 2008, 2008, 185 200.
2008 pra red 0 Prasad, T. E. V.; Reddy, A. A. S.; Kailash, S.; Prasad, D. H. L., Activity coefficients and excess Gibbs energy of binary mixtures of N,N-dimethyl formamide with selected compounds at 95.5 kPa, Fluid Phase Equilib. 2008, 273, 52-58.
2008 psu wic 0 Psutka, S.; Wichterle, I., Isothermal vapour liquid equilibria in the binary and ternary systems composed of 2-propanol, 3-methyl-2-butanone and 2,2,4-trimethylpentane, Fluid Phase Equilib. 2008, 264, 55-61.
2008 ram neu 0 Ramsauer, B.; Neueder, R.; Kunz, W., Isobaric vapour liquid equilibria of binary 1-propoxy-2-propanol mixtures with water and alcohols at reduced pressure, Fluid Phase Equilib. 2008, 272, 84-92.
2008 red rao 0 Reddy, B. S.; Rao, K. V., Measurement and correlation of binary vapor liquid equilibria of isomeric butanols with 1,4-dioxane, Fluid Phase Equilib. 2008, 264, 76-85.
2008 uno mat 0 Uno, S.; Matsuda, H.; Kurihara, K.; Tochigi, K.; Miyano, Y.; Kato, S.; Yasuda, H., Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems, J. Chem. Eng. Data 2008, 53, 2066-2071.
2009 bel raz 0 Belabbaci, A.; Razzouk, A.; Mokbel, I.; Jose, J.; Negadi, L., Isothermal Vapor-Liquid Equilibria of (Monoethanolamine + Water) and (4-Methylmorpholine + Water) Binary Systems at Several Temperatures, J. Chem. Eng. Data 2009, 54, 2312-2316.
2009 com cre 0 Compostizo, A.; Crespo-Coly'n, A.; Rubio, R. G., Isothermal Vapor-Liquid Equilibrium of Binary Mixtures Containing 1-Chlorobutane, Ethanol, or Acetonitrile, J. Chem. Eng. Data 2009, 54, 613-618.
2009 gie kos 0 Gierycz, P.; Kosowski, A.; Swietlik, R., Vapor-Liquid Equilibria in Binary Systems Formed by Cyclohexane with Alcohols, J. Chem. Eng. Data 2009, 54, 2996-3001.
2009 gin mon 0 Giner, I.; Montano, d.; Artigas, H.; Lafuente, C., Study of isobaric vapour liquid equilibrium of some cyclic ethers with 1-chloropropane: Experimental results and SAFT-VR modelling, Fluid Phase Equilib. 2009, 278, 62-67.
2009 kir kuu 0 Kirss, H.; Kuus, M.; Siimer, E., Isobaric Vapor-Liquid Equilibria of the Ternary System Methylbutyl Ketone + 1-Pentanol + Anisole, J. Chem. Eng. Data 2009, 54, 2128-2131.
2009 mar auc 0 Marrufo, B.; Aucejo, A.; Sanchotello, M.; Loras, S., Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa, Fluid Phase Equilib. 2009, 279, 11-16.
2009 mar ort 0 Marrero, E.; Ortega. J.; Palomar, J., Thermodynamic study of (alkyl esters + a,x-alkyl dihalides) VII. HE m and VE m for 20 binary mixtures {xCu 1H2u 1CO2C3H7 + (1 x)a,x-ClCH2(CH2)v 2CH2Cl}, where u = 1 to 4, a = 1 and v = x = 2 to 6. An analysis of

behavior using the COSMO-RS methodology, J. Chem. Thermodyn. 2009, 41, 367-382.

2009 ort nav 0 Ortega, J.; Navas, A.; Bolat, G.; Popa, I. M., Thermodynamic properties of (ethylbenzeneYan alkane orYan alkyl ethanoate): experimental Hm E and Vm E values, Phys. Chem. Liq. 2009, 47, 332-334.

2009 per gin 0 Perez-Gregorio, V.; Giner, D. M. B.; Royo, C. L. F. M., Surface and bulk behaviour of some (n-hexane + chloroalkane) mixtures, J. Chem. Thermodyn. 2009, 41, 553-559.

2009 xie wan 0 Xie, Q.; Wan, H.; Han, M.; Guan, G., Investigation on isobaric vapor liquid equilibrium for acetic acid +water +methyl ethyl ketone + isopropyl acetate, Fluid Phase Equilib. 2009, 280, 120-128.

2009 yue zhu 0 Yue, Q.; Zhu, J.-W.; Wu, Y.-Y.; Yuan, X.-q.; Ma, L., Liquid liquid equilibria and vapor liquid equilibria for the binary system of epichlorohydrin and water, Fluid Phase Equilib. 2009, 283, 12-16.

2010 del uus 1 Dell'Era, C.; Uusi-Kyyny, P.; Rautama, E.-L.; Pakkanen, M.; Alopaeus, V., Thermodynamics of aqueous solutions of methyldiethanolamine and diisopropanolamine., Fluid Phase Equilib. 2010, 299, 51-59.

2010 fer per 0 Fernandez, L.; Perez, E.; Ortega, J.; Canosa, J.; Wisniak, J., Measurements of the Excess Properties and Vapor-Liquid Equilibria at 101.32 kPa for Mixtures of Ethyl Ethanoate + Alkanes (from C5 to C10) , J. Chem. Eng. Data 2010, 55, 5519-5533.

2010 gao zhu 0 Gao, D.; Zhu, D.; Sun, H.; Zhang, L.; Chen, H.; Si, J., Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures of Methanol, Ethanoic Acid, and Propanoic Acid, J. Chem. Eng. Data 2010, 55, 4002-4009.

2010 gie kos 1 Gierycz, P.; Kosowski, A.; Swietlik, R., Vapor-Liquid Equilibria in Binary Systems Formed by n-Hexane with Alcohols, J. Chem. Eng. Data 2010, 55, 937-940.

2010 hai uus 1 Haimi, P.; Uusi-Kyyny, P.; Pokki, J. -P.; Alopaeus, V., Phase equilibrium measurements for systems containing propanenitrile with tert-butyl ethyl ether and C4-hydrocarbons, Fluid Phase Equilib. 2010, 299, 148-160.

2010 jan yad 0 Jangra, S. K.; Yadav, J. S.; Dimple, N.; Sharma, V. K., Thermodynamic Properties of Binary Mixtures of Tetrahydropyran with Anilines at 308.15 K, J. Chem. Eng. Data 2010, 55, 4525-4531.

2010 mar lor 0 Marrufo, B.; Loras, S.; Sanchotello, M., Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and 2-Methoxyethanol at 100 kPa, J. Chem. Eng. Data 2010, 55, 62-68.

2010 mar lor 1 Marrufo, B.; Loras, S.; Sanchotello, M., Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and Methyl Isobutyl Ketone at 100 kPa, J. Chem. Eng. Data 2010, 55, 5812-5817.

2010 mar por 0 Marongiu, B.; Porcedda, S.; Falconieri, D.; Piras, A., Calorimetric Study of Nitrile Group-Solvent Interactions and Comparison with Dispersive Quasi-Chemical (DISQUAC) Predictions , J. Chem. Eng. Data 2010, 55, 5406-5412.

2010 mar san 0 Marrufo, B.; Sanchotello, M.; Loras, S., Isobaric vapor-liquid equilibria for binary and ternary mixtures with cyclohexane, cyclohexene, and morpholine at 100 kPa, Fluid Phase Equilib. 2010, 296, 178-183.

2010 miy ash 0 Miyano, Y.; Ashimori, S.; Otuka, T.; Dairaku, T.; Kitamoto, T.; Kume, Y.; Tateishi, Y.; Nishiguchi, Y.; Miura, R.; Mitani, T., Henry's Law Constants and Infinite Dilution Activity Coefficients of Propane, Propene, Butane, 2-Methylpropane, 1-Butene, 2-Methylpropene, trans-2-Butene, cis-2-Butene, 1,3-Butadiene, Dimethyl Ether, Chloroethane, and 1,1-Difluoroethane in 2-Methylphenol, 3-Methylphenol, and 4-Methylphenol, J. Chem. Eng. Data 2010, 55, 4956-4960.

2010 moh mem 0 Mohsen-Nia, M.; Memarzadeh, M. R., Isobaric Vapor-Liquid Equilibria of Heptane + 1-Butanol and Heptane + 1-Pentanol Systems at (53.3 and 91.3) kPa, J. Chem. Eng. Data 2010, 55, 2140-2144.

2010 neg kac 0 Negadi, L.; Kaci, A. A.; Negadi, A.; Jose, J., Isothermal vapor-liquid equilibria and excess enthalpies of binary mixtures of propyl ethanoate + 1-hexyne, +2-hexyne, +3-hexyne, Fluid Phase Equilib. 2010, 300, 135-144.

2010 red swa 0 Reddy, K. S.; Swamy, A. V. N.; Prasad, T. E. V.; Prasad, D. H. L., Vapor-Liquid Equilibria of Binary Mixtures Formed by Hexan-1-ol with Chloroethanes and Chloroethenes at 95.6 kPa, J. Chem. Eng. Data 2010, 55, 2073-2076.

2010	sap	uus	0	Sapei, E.; Uusi-Kyyny, P.; Keskinen, K. I.; Alopaeus, V., Phase equilibria of binary systems of 3-methylthiophene with four different hydrocarbons, Fluid Phase Equilib. 2010, 288, 155-160.
2010	sap	uus	2	Sapei, E.; Uusi-Kyyny, P.; Keskinen, K. I.; Pokki, J. -P.; Alopaeus, V., Phase equilibria for systems containing dimethyl disulfide and diethyl disulfide with hydrocarbons at 368.15 K, Fluid Phase Equilib. 2010, 293, 175-181.
2010	siw	dim	1	Siwach, R.; Dimple; Sharma, V. K., Thermodynamic properties of binary mixtures containing Tetrahydropyran: Excess molar volumes, Excess molar enthalpies and isentropic compressibilities changes of mixing, Thermochim. Acta 2010, 506, 1-7.
2010	wan	gao	2	Wang, Y.; gao, h.; Yan, W., Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa, Fluid Phase Equilib. 2010, 291, 8-12.
2011	ahm	neg	0	Ahmed, N. C.-B.; Negadi, L.; Mokbel, I.; Jose, J., Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures, J. Chem. Thermodyn. 2011, 43, 719-724.
2011	alv	mat	0	Alvarez, V. H.; Mattedi, S.; Iglesias, M.; Gonzalez-Olmos, R.; Resa, J. M., Phase equilibria of binary mixtures containing methyl acetate, water, methanol or ethanol at 101.3 kPa, Phys. Chem. Liq. 2011, 49, 52-71.
2011	bel	mok	0	Belabbaci, A.; Mokbel, I.; Kaci, A. A.; Jose, J.; Negadi, L., Phase equilibrium properties of binary aqueous solutions of benzylamine, 1,2-bis(2-aminoethoxy)ethane, or 2-[2-(dimethylamino)ethoxy]ethanol, J. Chem. Thermodyn. 2011, 43, 17-21.
2011	ber	pav	1	Bernatova, S.; Pavlicek, J.; Wichterle, I., Isothermal vapour-liquid equilibria in the binary and ternary systems composed of 2,2,4-trimethylpentane, 2-methyl-1-propanol, and 4-methyl-2-pentanone, Fluid Phase Equilib. 2011, 307, 66-71.
2011	coe	dos	0	Coelho, R.; dos Santos, P. G.; Mafra, M. R.; Cardozo-Filho, L.; Corazza, M. L., (Vapor + liquid) equilibrium for the binary systems {water + glycerol} and {ethanol + glycerol, ethyl stearate, and ethyl palmitate} at low pressures, J. Chem. Thermodyn. 2011, 43, 1870-1876.
2011	fan	li	0	Fan, D.; Li, J.; Shi, J.; Peng, C.; Liu, H.; Hu, Y.; Paricaud, P., Vapor-Liquid Equilibria in the Propyl Acetate + Ethanoic Acid Binary System from (323.15 to 353.15) K: Measurement with a Static Method and Modeling with the NRTL, Wilson, UNIQUAC, and COSMO-SAC Approaches , J. Chem. Eng. Data 2011, 56, 1323-1329.
2011	jon	maa	0	Jongmans, M. T. G.; Maassen, J. I. W.; Luijks, A. J.; Schuur, B.; de Haan, A. B., Isobaric Low-Pressure Vapor Liquid Equilibrium Data for Ethylbenzene + Styrene + Sulfolane and the Three Constituent Binary Systems , J. Chem. Eng. Data 2011, 56, 3510-3517.
2011	mat	kam	0	Matsuda, H.; Kamihama, N.; Kurihara, K.; Tochigi, K.; Yokoyama, K., Measurement of Isobaric Vapor-Liquid Equilibria for Binary systems containing Tetrahydrofuran Using an Automatic Apparatus, J. Chem. Eng. Jpn. 2011, 44, 131-139.
2011	mat	kim	0	Mathuni, T.; Kim, J.-I.; Park, S.-J., Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL), J. Chem. Eng. Data 2011, 56, 89-96.
2011	mat	yam	0	Matsuda, H.; Yamada, H.; Takahashi, R.; Koda, A.; Kurihara, K.; Tochigi, K.; Ochi, K., Ebulliometric Determination and Prediction of Vapor Liquid Equilibria for Binary Mixtures of Ethanol and Ethyl Hexanoate, J. Chem. Eng. Data 2011, 56, 5045-5051.
2011	pin	pen	0	Ping, L.; Peng, Y.; Mao, J., Vapor-Liquid Equilibria of Acetic Acid-Water-N-Methylpyrrolidone System at 26.67 kPa, Journal of Chemical Engineering of Chinese Universities 2011, 25, 554-558.
2011	teo	bar	0	Teodorescu, M.; Barhala, A.; Dragoescu, D.; Gheorghe, D., Isothermal Vapor Liquid Equilibria for Nitromethane and Nitroethane + 1,3-Dichloropropane Binary Systems at Temperatures between (343.15 and 363.15) K, J. Chem. Eng. Data 2011, 56, 4665-4671.
2011	vou	pam	0	Voutsas, E. C.; Pamouktsis, C.; Argyris, D.; Pappa, G. D., Measurements and thermodynamic modeling of the ethanol-water system with emphasis to the azeotropic region, Fluid Phase Equilib. 2011, 308, 135-141.
2012	bai	guo	0	Bai, J.; Guo, B.; Xia, S.; Li, Y.; Ma, P., Isobaric vapor-liquid equilibrium for four binary systems of thiophene, Fluid Phase Equilib. 2012, 315, 84-90.

2012	che	zho	0	Chen, R.; Zhong, L.; Xu, C., Isobaric Vapor-Liquid Equilibrium for Binary Systems of Toluene + Ethanol, Toluene + Isopropanol at (101.3, 121.3, 161.3 and 201.3) kPa, J. Chem. Eng. Data 2012, 1, 155-165.
2012	doh	reh	0	Dohnal, V.; Rehak, K., Thermal and Volumetric Properties of Four Aqueous Aroma Compounds at Infinite Dilution, J. Chem. Eng. Data 2012, 57, 1822-1828.
2012	fur	coe	0	Furtado, F. A.; Coelho, G. L. V., Determination of infinite dilution activity coefficients using HS-SPME/GC/FID for hydrocarbons in furfural at temperatures of (298.15, 308.15, and 318.15) K, J. Chem. Thermodyn. 2012, 49, 119-127.
2012	guo	bai	0	Guo, B.; Bai, J.; Li, Y.; Xia, S.; Ma, P., Isobaric vapor-liquid equilibrium for four binary systems of 3-methylthiophene, Fluid Phase Equilib. 2012, 320, 26-31.
2012	han	sol	0	Hani, R.; Solimando, R.; Negadi, L.; Jose, J.; Ait Kaci, A., Isothermal (vapor + liquid) equilibria and excess enthalpy data of {1-hexene + methyl butyl ether (MBE)} and {1-hexene + methyl tert-butyl ether (MTBE)} binary systems at several temperatures, J. Chem. Thermodyn. 2012, 54, 83-89.
2012	li	li	0	Li, G.; Li, Z., Determination and Prediction of Vapor Liquid Equilibria for a System Containing Water + Butyl Acetate + Cyclohexane + Ethanol , J. Chem. Eng. Data 2012, 57, 2543-2548.
2012	mat	fuk	0	Matsuda, H.; Fukano, M.; Kikkawa, S.; Constantinescu, D.; Kurihara, K.; Tochigi, K.; Ochi, K.; Gmehling, J., Ebulliometric determination and prediction of (vapor + liquid) equilibria for binary and ternary mixtures containing alcohols (C1 C4) and dimethyl carbonate, J. Chem. Thermodyn. 2012, 44, 84-96.
2012	mej	seg	0	Mejia, A.; Segura, H.; Cartes, M.; Perez-Correa, J. R., Vapor Liquid Equilibrium, Densities, and Interfacial Tensions of the System Ethanol + Tetrahydro-2H-pyran , J. Chem. Eng. Data 2012, 57, 561-567.
2012	mej	seg	1	Mejia, A.; Segura, H.; Cartes, M.; Perez-Correa, J. R., Experimental determination and theoretical modeling of the vapor-liquid equilibrium and surface tensions of hexane + tetrahydro-2H-pyran, Fluid Phase Equilib. 2012, 316, 55-65.
2012	mok	saw	0	Mokbel, I.; Sawaya, T.; zanota, m.-l.; Naccoul, R. A.; Jose, J.; de Bellefon, C., Vapor-Liquid Equilibria of Glycerol, 1,3-Propanediol, Glycerol + Water, and Glycerol + 1,3-Propanediol, J. Chem. Eng. Data 2012, 57, 284-289.
2012	pav	bog	0	Pavlicek, J.; Bogdanic, G.; Wichterle, I., Vapour-liquid and chemical equilibria in the ethyl ethanoate + ethanol + propyl ethanoate + propanol system accompanied with transesterification reaction, Fluid Phase Equilib. 2012, 328, 61-68.
2012	rio	ort	0	Rios, R.; Ortega, J.; Fernandez, L., Measurements and Correlations of the Isobaric Vapor Liquid Equilibria of Binary Mixtures and Excess Properties for Mixtures Containing an Alkyl (Methyl, Ethyl) Butanoate with an Alkane (Heptane, Nonane) at 101.3 kPa, J. Chem. Eng. Data 2012, 57, 3210-3224.
2012	sun	gor	0	Suntsov, Y. K.; Goryunov, V. A., Boiling temperatures and excess thermodynamic functions of 2-propanol-n-alkyl propanoate solutions , Zh. Fiz. Khim. 2012, 86, 1173-1178.
2012	sun	laa	0	Sundberg, A. T.; Laavi, H.; Kim, Y.; Uusi-Kyyny, P.; Pokki, J. -P.; Alopaeus, V., Vapor Liquid Equilibria, Excess Enthalpy, and Excess Volume of Binary Mixtures Containing an Alcohol (1-Butanol, 2-Butanol, or 2-Methyl-2-butanol) and 2-Ethoxy-2-methylbutane, J. Chem. Eng. Data 2012, 57, 3502-3509.
2012	yan	zen	0	Yang, C.; Zeng, H.; Yin, X.; Ma, S.; Sun, F.; Li, Y.; Li, J., Measurement of (vapor + liquid) equilibrium for the systems {methanol + dimethyl carbonate} and {methanol + dimethyl carbonate + tetramethylammonium bicarbonate} at p = (34.43, 67.74) kPa, J. Chem. Thermodyn. 2012, 53, 158-166.
2012	zaw	nge	0	Zawadzki, M.; Ngema, P.; Domanska, U.; Naidoo, P.; Ramjugernath, D., Vapor Liquid Equilibrium Data for Binary Systems of 1H-Pyrrole with Butan-1-ol, Propan-1-ol, or Pentan-1-ol , J. Chem. Eng. Data 2012, 57, 2520-2527.
2013	laa	pok	0	Laavi, H.; Pokki, J. -P.; Uusi-Kyyny, P.; Kim, Y.; Alopaeus, V., Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile, J. Chem. Eng. Data 2013, 58, 943-950.
2013	laa	pok	1	Laavi, H.; Pokki, J. -P.; Uusi-Kyyny, P.; Massimi, A.; Kim, Y.; Sapei, E.; Alopaeus, V.,

				Vapor Liquid Equilibrium at 350 K, Excess Molar Enthalpies at 298 K, and Excess Molar Volumes at 298 K of Binary Mixtures Containing Ethyl Acetate, Butyl Acetate, and 2-Butanol, J. Chem. Eng. Data 2013, 58, 1011-1019.
2013	li	bai	0	Li, Y.; Bai, P.; Zhuang, Q., Isobaric vapor liquid equilibrium for binary system of methanol and acetonitrile, Fluid Phase Equilib. 2013, 340, 42-45.
2013	li	cao	0	Li, Q.; Cao, L.; Sun, X.; Liu, P.; Wang, B., Isobaric Vapor - Liquid Equilibrium for Ethyl Acetate + Acetonitrile + 1 - Butyl-3-methylimidazolium Hexa fl uorophosphate at 101.3 kPa, J. Chem. Eng. Data 2013, 58, 1112-1116.
2013	mam	tas	0	Mamidipelli, P.; Tasleem, S., Isobaric Vapor Liquid Equilibrium Data of Acrylonitrile (1) + Heptan-1-ol (2), Acrylonitrile (1) + Ethanol (2), and Nitrobenzene (1) + Heptan-1-ol (2) at 96.5 kPa, J. Chem. Eng. Data 2013, 58, 2420-2424.
2013	moo	nai	0	Moodley, K.; Naidoo, P.; Raal, J. D.; Ramjugernath, D., Vapor Liquid Equilibrium Data for the Morpholine-4-carbaldehyde + n-Hexane or n-Heptane Binary Systems Using a Static-Synthetic Apparatus, J. Chem. Eng. Data 2013, 58, 2552-2566.
2013	mor	mar	0	Moreau, A.; Martin, M. C.; Aguilar, F.; Segovia, J. J., Vapour liquid equilibria and excess enthalpies of the binary mixtures 1-pentanol with 2,2,4-trimethylpentane or n-heptane, Fluid Phase Equilib. 2013, 338, 95-99.
2013	out	lem	0	Outcalt, S. L.; Lemmon, E. W., Bubble-Point Measurements of Eight Binary Mixtures for Organic Rankine Cycle Applications, J. Chem. Eng. Data 2013, 58, 1853-1860.
2013	pav	and	0	Pavlicek, J.; Andresova, A.; Bogdanic, G.; Wichterle, I., Vapour-liquid equilibria in binary and ternary systems composed of 2,3-dimethylbutane, diisopropyl ether, and 3-methyl-2-butanone at 313.15, 323.15 and 313.15 K, Fluid Phase Equilib. 2013, 344, 59-64.
2013	pou	sha	0	Pourmohammadbagher, A.; Shaw, J. M., Excess Enthalpy and Excess Volume for Pyridine + Methyldiethanolamine and Pyridine + Ethanolamine Mixtures, J. Chem. Eng. Data 2013, 58, 2202-2209.
2013	ven	ben	0	Veneral, J. G.; Benazzi, T.; Mazutti, M. A.; Voll, F. A. P.; Cardozo-Filho, L.; Corazza, M. L.; Guirardello, R.; Oliveira, J. V., Thermophysical properties of biodiesel and related systems. Part I. Vapour liquid equilibrium at low pressures of binary and ternary systems involving methanol, ethanol, glycerol, water and NaCl, J. Chem. Thermodyn. 2013, 58, 398-404.
2013	wan	xia	0	Wang, H.-x.; Xiao, J.-j.; Shen, Y.-y.; Ye, C.-s.; Li, L.; Qiu, T., Experimental Measurements of Vapor Liquid Equilibrium Data for the Binary Systems of Methanol + 2-Butyl Acetate, 2-Butyl Alcohol + 2-Butyl Acetate, and Methyl Acetate + 2-Butyl Acetate at 101.33 kPa, J. Chem. Eng. Data 2013, 58, 1827-1832.
2013	yan	qin	0	Yang, C.; Qin, Z.; Xu, Y.; Zeng, H.; Sun, F.; Zhang, P.; Feng, Y., Isobaric Vapor Liquid Equilibrium for the Binary Systems of Methanol, Diethylamine, and N,N-Diethylethanolamine at p = (60.0 and 101.3) kPa, J. Chem. Eng. Data 2013, 58, 482-487.
2013	zha	wu	0	Zhang, L.; Wu, W.; Sun, Y.; Li, L.; Jiang, B.; Li, X.; Yang, N.; Ding, H., Isobaric Vapor Liquid Equilibria for the Binary Mixtures Composed of Ethylene Glycol, 1,2-Propylene Glycol, 1,2-Butanediol, and 1,3-Butanediol at 10.00 kPa, J. Chem. Eng. Data 2013, 58, 1308-1315.
2013	zhu	yao	0	Zhu, T.-F.; Yao, S.; Wang, Z.-D.; Liu, W.; Song, H., Isobaric Vapor Liquid Equilibria for the Binary and Ternary Systems of 2-Methyl-1-butanol, 2-Methyl-butanol Acetate, and Dimethylformamide (DMF) at 101.3 kPa, J. Chem. Eng. Data 2013, 58, 1156-1160.