Cycloheptane

Inchi: InChI=1S/C7H14/c1-2-4-6-7-5-3-1/h1-7H2
InchiKey: DMEGYFMYUHOHGS-UHFFFAOYSA-N
Formula: C7H14
SMILES: C1CCCCCC1
Mol. weight [g/mol]: 98.19
CAS: 291-64-5

Physical Properties

Property code	Value	Unit	Source
af	0.2370		KDB
chl	-4597.60 ± 0.60	kJ/mol	NIST Webbook
chl	-4598.90 ± 1.70	kJ/mol	NIST Webbook
chl	-4586.50	kJ/mol	NIST Webbook
chl	-4597.00 ± 0.80	kJ/mol	NIST Webbook
gf	63.05	kJ/mol	KDB
hcg	4597.80	kJ/mol	KDB
hcn	4289.856	kJ/mol	KDB
hf	-119.40	kJ/mol	KDB
hfl	-156.40 ± 1.70	kJ/mol	NIST Webbook
hfus	2.55	kJ/mol	Joback Method
hvap	38.50 ± 0.20	kJ/mol	NIST Webbook
hvap	39.40	kJ/mol	NIST Webbook
hvap	38.50	kJ/mol	NIST Webbook
hvap	38.50 ± 2.10	kJ/mol	NIST Webbook
hvap	37.00	kJ/mol	NIST Webbook
ie	9.97	eV	NIST Webbook
ie	9.96	eV	NIST Webbook
ie	9.82 ± 0.05	eV	NIST Webbook
ie	9.90 ± 0.10	eV	NIST Webbook
ie	9.88 ± 0.05	eV	NIST Webbook
log10ws	-3.51		Estimated Solubility Method
log10ws	-3.52		Aqueous Solubility Prediction Method
logp	2.731		Crippen Method
mcvol	98.630	ml/mol	McGowan Method
pc	3820.00	kPa	KDB
pc	3820.00 ± 40.00	kPa	NIST Webbook

pc	3813.00 ± 50.00	kPa	NIST Webbook
pc	3826.00 ± 40.53	kPa	NIST Webbook
rhoc	277.87 ± 3.93	kg/m3	NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	815.00		NIST Webbook
rinpol	811.60		NIST Webbook
rinpol	791.00		NIST Webbook
rinpol	804.00		NIST Webbook
rinpol	811.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	807.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	784.00		NIST Webbook
rinpol	812.00		NIST Webbook
rinpol	789.00		NIST Webbook
rinpol	795.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	806.00		NIST Webbook
rinpol	816.00		NIST Webbook
rinpol	804.00		NIST Webbook
rinpol	824.00		NIST Webbook
rinpol	819.00		NIST Webbook
rinpol	787.00		NIST Webbook
rinpol	794.00		NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	796.00		NIST Webbook
rinpol	796.00		NIST Webbook
rinpol	796.00		NIST Webbook
rinpol	790.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	846.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	797.00		NIST Webbook
rinpol	807.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	787.00		NIST Webbook
rinpol	837.50		NIST Webbook
rinpol	806.90		NIST Webbook
rinpol	789.00		NIST Webbook
rinpol	811.00		NIST Webbook
rinpol	812.00		NIST Webbook
rinpol	816.00		NIST Webbook
rinpol	800.00		NIST Webbook

rinpol	819.00		NIST Webbook
rinpol	788.00		NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	819.00		NIST Webbook
rinpol	806.90		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	794.20		NIST Webbook
rinpol	837.00		NIST Webbook
rinpol	836.00		NIST Webbook
rinpol	837.50		NIST Webbook
rinpol	796.00		NIST Webbook
rinpol	789.00		NIST Webbook
ripol	878.00		NIST Webbook
ripol	899.00		NIST Webbook
ripol	883.00		NIST Webbook
ripol	883.00		NIST Webbook
ripol	899.00		NIST Webbook
ripol	892.00		NIST Webbook
sg	342.30 ± 1.30	J/mol×K	NIST Webbook
sl	242.55	J/mol×K	NIST Webbook
tb	392.15 ± 2.00	K	NIST Webbook
tb	391.25 ± 0.60	K	NIST Webbook
tb	391.63	K	KDB
tb	391.70	K	NIST Webbook
tb	393.00 ± 2.00	K	NIST Webbook
tb	391.63 ± 0.30	K	NIST Webbook
tb	391.99 ± 0.30	K	NIST Webbook
tb	391.99 ± 0.30	K	NIST Webbook
tb	391.99 ± 0.20	K	NIST Webbook
tc	604.20	K	KDB
tc	604.20 ± 0.50	K	NIST Webbook
tc	604.20 ± 0.50	K	NIST Webbook
tf	265.12	K	KDB
tt	265.00 ± 0.07	K	NIST Webbook
tt	265.12 ± 0.05	K	NIST Webbook
tt	265.10 ± 3.00	K	NIST Webbook
vc	0.353	m3/kmol	KDB
vc	0.354 ± 0.007	m3/kmol	NIST Webbook
vc	0.353	m3/kmol	NIST Webbook
zc	0.2684240		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.82	J/mol×K	423.39	Joback Method
cpg	170.69	J/mol×K	388.05	Joback Method
cpg	260.93	J/mol×K	600.09	Joback Method
cpg	247.91	J/mol×K	564.75	Joback Method
cpg	234.11	J/mol×K	529.41	Joback Method
cpg	219.50	J/mol×K	494.07	Joback Method
cpg	204.08	J/mol×K	458.73	Joback Method
cpl	180.75	J/mol×K	298.15	NIST Webbook
cpl	180.47	J/mol×K	298.15	NIST Webbook
cpl	180.61	J/mol×K	298.15	NIST Webbook
dvisc	0.0332403	Pa×s	176.75	Joback Method
dvisc	0.0006718	Pa×s	317.62	Joback Method
dvisc	0.0012369	Pa×s	282.40	Joback Method
dvisc	0.0027104	Pa×s	247.18	Joback Method
dvisc	0.0004121	Pa×s	352.83	Joback Method
dvisc	0.0077075	Pa×s	211.97	Joback Method
dvisc	0.0002763	Pa×s	388.05	Joback Method
hfust	0.29	kJ/mol	198.20	NIST Webbook
hfust	4.98	kJ/mol	134.80	NIST Webbook
hfust	1.88	kJ/mol	265.10	NIST Webbook
hfust	0.45	kJ/mol	212.40	NIST Webbook
hfust	1.88	kJ/mol	265.10	NIST Webbook
hsubt	53.50	kJ/mol	134.00	NIST Webbook
hvapt	36.40	kJ/mol	365.50	NIST Webbook
hvapt	31.70	kJ/mol	540.00	NIST Webbook
hvapt	36.10	kJ/mol	387.00	NIST Webbook
hvapt	38.60	kJ/mol	307.50	NIST Webbook
rfi	1.44240		298.15	KDB
rhol	810.00	kg/m3	293.00	KDB
sfust	7.10	J/mol×K	265.10	NIST Webbook
sfust	2.11	J/mol×K	212.40	NIST Webbook
sfust	1.46	J/mol×K	198.20	NIST Webbook
sfust	36.94	J/mol×K	134.80	NIST Webbook
srf	0.03	N/m	298.20	KDB

tcondl	0.11	W/m×K	320.05	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	297.01	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	280.48	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	280.17	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	262.50	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.13	W/m×K	262.37	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	262.18	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	297.20	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	297.33	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.11	W/m×K	320.23	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.11	W/m×K	320.36	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	280.35	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.41291e+01
Coeff. B	-3.26491e+03
Coeff. C	-4.86550e+01
Temperature range (K), min.	265.12
Temperature range (K), max.	418.93

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	8.37466e+01
Coeff. B	-7.38221e+03
Coeff. C	-1.02752e+01
Coeff. D	6.91167e-06
Temperature range (K), min.	265.12
Temperature range (K), max.	604.30

Sources

Separation of aliphatic from aromatic hydrocarbons and sulphur compounds from fuel based on measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid N,N-diethyl-N-methyl-N-(2-methoxy-ethyl)ammonium bis(trifluoromethylsulfonyl)imide:	https://www.doi.org/10.1016/j.jct.2016.07.017
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(2-methoxyethyl)-1-methylpyrrolidinium trifluorotris(perfluoroethyl)phosphate:	https://www.doi.org/10.1016/j.jct.2013.01.007
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Evaluation of the Performance of Trigeminal Tricationic Ionic Liquids for Separation Problems:	https://www.doi.org/10.1021/je201129y
Activity Coefficients at Infinite Dilution of Various Solutes in Tetrapropylammonium Bromide + 1,6-Hexanediol Deep Eutectic Solvent:	https://www.doi.org/10.1021/acs.jced.8b00600
Activity coefficients at infinite dilution for solutes in the trioctylmethylammonium bis(trifluoromethylsulfonyl)imide ionic liquid using gas liquid chromatography:	https://www.doi.org/10.1016/j.jct.2009.08.012
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=478
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C291645&Units=SI
Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids:	https://www.doi.org/10.1021/je200195q
Thermodynamic study of molecular interaction-selectivity in separation processes based on limiting activity coefficients:	https://www.doi.org/10.1016/j.jct.2018.02.014
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 4-(2-methoxyethyl)-4-methylmorpholinium trifluorotris(perfluoroethyl)phosphate:	https://www.doi.org/10.1016/j.jct.2012.05.017
Thermodynamics and selectivity of separation based on activity coefficients at infinite dilution of various solutes in 1-allyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid:	https://www.doi.org/10.1016/j.jct.2016.06.028
Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Having Six-, Eight-, and Ten-Carbon Alkyl Chains:	https://www.doi.org/10.1021/je300692s
Measurements of activity coefficients at infinite dilution of aromatic and aliphatic hydrocarbons, alcohols, and water in the new ionic liquid [EMIM][SCN] using GLC:	https://www.doi.org/10.1016/j.jct.2008.01.004
Measurements of Activity Coefficients at Infinite Dilution for Organic Solutes and Water in the Ionic Liquid 1-Butyl-1-methylpiperidinium Thiocyanate:	https://www.doi.org/10.1021/je101008y
Experimental and theoretical study on infinite dilution activity coefficients of various solutes in piperidinium ionic liquids:	https://www.doi.org/10.1016/j.jct.2013.01.005
Activity coefficients at infinite dilution of organic solutes in the ionic liquid trihexyltetradecylphosphonium hexafluorophosphate using gas liquid chromatography at T = (313.15, 333.15, 353.15 and 363.15) K:	https://www.doi.org/10.1016/j.jct.2012.01.004
Partition Coefficients of Organic Compounds in Four New Tetraalkylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Using Inverse Gas Chromatography:	https://www.doi.org/10.1021/je200637v
Separation of binary mixtures hexane/hex-1-ene, cyclohexane/cyclohexene and ethylbenzene/styrene based on limiting activity coefficients:	https://www.doi.org/10.1016/j.jct.2017.03.004
Separation of binary mixtures based on limiting activity coefficients data using [illegible]-based ionic liquid and modelling of thermodynamic functions:	https://www.doi.org/10.1016/j.fluid.2017.12.029
Activity coefficients at infinite dilution of organic solvents and water in 1-butyl-3-methylimidazolium dicyanamide. A literature review of hexane/hex-1-ene separation:	https://www.doi.org/10.1016/j.fluid.2016.02.004
Activity coefficients at infinite dilution of organic solutes in the ionic liquid [illegible] bis(trifluoromethylsulfonyl)imide using gas-liquid chromatography at T = (313.15, 333.15, 353.15 and 373.15) K:	https://www.doi.org/10.1016/j.jct.2013.05.030
Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid 1-butyl-3-methylimidazolium 2-(2-methoxyethoxy) ethylsulfate using GLC at T = (298.15, 303.15 and 308.15) K:	https://www.doi.org/10.1016/j.jct.2005.01.015
The study of activity coefficients at infinite dilution for organic solutes and water in 1-butyl-4-methylpyridinium dicyanamide [B4MPy][DCA] using GLC:	https://www.doi.org/10.1016/j.jct.2013.09.007
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-ethyl-3-methylimidazolium methanesulfonate:	https://www.doi.org/10.1016/j.jct.2012.03.005
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(2-hydroxyethyl)-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate:	https://www.doi.org/10.1016/j.jct.2013.05.008
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid [illegible] bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2011.04.018
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-Butyl-3-methylimidazolium Octyl Sulfate Using Gas-Liquid Chromatography at a Temperature of 298.15 K, 313.15 K, or 328.15 K:	https://www.doi.org/10.1021/je0500375
Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons:	https://www.doi.org/10.1021/je4001894
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid [illegible] bis(trifluoromethylsulfonyl)imide using gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2013.10.026
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(2-methoxyethyl)-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2012.03.015
The use of ionic liquids for separation of binary hydrocarbons mixtures based on gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2018.07.024
Experimental and theoretical study of interaction between organic compounds and 1-(4-sulfobutyl)-3-methylimidazolium based ionic liquids:	https://www.doi.org/10.1016/j.fluid.2014.06.021
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Butyl-3-methylimidazolium Tetrafluoroborate Using Inverse Gas Chromatography:	https://www.doi.org/10.1021/je800658v
Activity coefficients at infinite dilution of organic solutes in [illegible] based ionic liquids using gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2015.02.023
Measurements of activity coefficients at infinite dilution of organic solutes and water in 1-propyl-1-methylpiperidinium bis{(trifluoromethyl)sulfonyl}imide ionic liquid using g.l.c.:	https://www.doi.org/10.1016/j.jct.2010.05.017
Activity coefficients at infinite dilution of organic solutes in the ionic liquid [illegible] using gas liquid chromatography at T = (313.15, 323.15, and 333.15) K:	https://www.doi.org/10.1016/j.jct.2009.07.010
New ionic liquid [P4,4,4,4][NTf2] in bio-butanol extraction on investigation of limiting activity coefficients:	https://www.doi.org/10.1016/j.fluid.2018.07.028

Measurements of activity coefficients at infinite dilution of aliphatic and	https://www.doi.org/10.1016/j.jct.2008.12.018
Determination of Activity Coefficients at Infinite Dilution of 35 Solutes in the	https://www.doi.org/10.1021/je100410k
Activity Coefficients at Infinite Dilution	https://www.doi.org/10.1021/je900890u
Measurements for Organic Solutes and	https://www.doi.org/10.1016/j.jct.2010.12.020
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2018.01.003
Measurement of activity coefficients at	https://www.doi.org/10.1016/j.jct.2013.10.017
Infinite dilution activity coefficients,	https://www.doi.org/10.1016/j.fluid.2006.07.015
Ethyl Diglycol Activity Coefficients for	https://www.doi.org/10.1021/je0602925
Thermodynamic Properties of Ionic	https://www.doi.org/10.1016/j.jct.2011.02.012
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.fluid.2018.06.003
Thermodynamics and activity	https://www.doi.org/10.1016/j.jct.2011.06.007
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2008.12.005
Measurements for organic solutes and	https://www.doi.org/10.1016/j.jct.2016.08.008
Separation of water/butan-1-ol based	https://www.doi.org/10.1016/j.jct.2017.10.003
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Determination of Activity Coefficients	https://www.doi.org/10.1021/je030187k
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2015.05.014
1-Hexyl-3-methylimidazolium	https://www.doi.org/10.1016/j.jct.2016.01.017
Measurements of activity coefficients	https://www.doi.org/10.1016/j.jct.2011.11.025
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2009.12.004
Ionic liquid mediated extraction	https://www.doi.org/10.1016/j.fluid.2018.09.024
Excess Molar Volumes for Binary and	https://www.doi.org/10.1021/acs.jced.5b00331
Measurements of activity coefficients	https://www.doi.org/10.1016/j.jct.2013.07.004
Study of interaction between organic	https://www.doi.org/10.1016/j.fluid.2014.11.020
Determination of Activity Coefficients	https://www.doi.org/10.1021/je0498107
Activity Coefficients at Infinite Dilution	https://www.doi.org/10.1021/je1000582
Measurements for Organic Solutes and	https://www.doi.org/10.1016/j.jct.2011.11.021
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.fluid.2006.03.002
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2013.05.011
Measurements of activity coefficients	https://www.doi.org/10.1021/je9003178
Measurement of activity coefficients at	https://www.doi.org/10.1016/j.jct.2005.07.003
High selective water/butan-1-ol	https://www.doi.org/10.1016/j.fluid.2017.06.001
Measurements of activity coefficients	https://www.doi.org/10.1016/j.fluid.2018.11.011
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2012.08.016
Thermal Conductivity and Thermal	https://www.doi.org/10.1021/je034162x
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.fluid.2008.10.008
Measurements for organic solutes in	https://www.doi.org/10.1016/j.jct.2010.10.026
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2015.02.024
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2009.06.011
Measurements for organic solutes and	https://www.doi.org/10.1016/j.jct.2010.12.005
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2013.02.006
Thermodynamics and activity	https://www.doi.org/10.1016/j.jct.2013.08.030
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2005.03.014

Gas liquid chromatography measurements of activity coefficients at infinite dilution of various organic	https://www.doi.org/10.1016/j.jct.2010.01.004
Measurements of activity coefficients at infinite dilution for organic solutes	https://www.doi.org/10.1016/j.jct.2013.02.004
Study of Ethyl Alcohol or	https://www.doi.org/10.1021/je900838a
(Cyano-functionalized) ionic liquids	https://www.doi.org/10.1016/j.fluid.2009.08.017
Using Inverse Gas Chromatography: measurements for organic solutes and	https://www.doi.org/10.1021/je0256481
of Organic Solutes in	https://www.doi.org/10.1016/j.jct.2010.12.019
Activity coefficients at infinite dilution	https://www.cheric.org/files/research/kdb/mol/mol478.mol
Determination of activity coefficients at	https://www.doi.org/10.1016/j.fluid.2005.04.021
infinite dilution of organic solutes in	https://www.doi.org/10.1016/j.jct.2004.03.001
for hydrocarbons in furfuryl alcohol at	https://www.doi.org/10.1016/j.jct.2015.05.022
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2014.12.027
Study of	https://www.doi.org/10.1021/je800105r
Determination of Activity Coefficients	https://www.doi.org/10.1016/j.fluid.2009.01.011
measurments for organic solutes and	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Mesophase behavior of	https://www.doi.org/10.1016/j.fluid.2014.03.020
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Phase Equilibria of	https://www.doi.org/10.1021/je900460m
Activity Coefficients at Infinite Dilution	https://www.doi.org/10.1021/acs.jced.5b00980
The determination of activity	https://www.doi.org/10.1016/j.jct.2003.09.011
separation of binary mixtures	https://www.doi.org/10.1016/j.jct.2017.11.017
Properties and Mixtures Containing Ionic	https://www.doi.org/10.1016/j.jct.2012.01.019
Activity Coefficients at Infinite Dilution	https://www.doi.org/10.1021/je800754w
Thermodynamics and activity	https://www.doi.org/10.1016/j.jct.2014.04.024
measurements for organic solutes in	https://www.doi.org/10.1016/j.jct.2008.04.002
Determination of	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature

hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility