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	-4586.50	kJ/mol	NIST Webbook
chl	-4597.00 ± 0.80	kJ/mol	NIST Webbook
chl	-4597.60 ± 0.60	kJ/mol	NIST Webbook
chl	-4598.90 ± 1.70	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	37.00	kJ/mol	NIST Webbook
hvap	39.40	kJ/mol	NIST Webbook
hvap	38.50 ± 0.20	kJ/mol	NIST Webbook
hvap	38.50	kJ/mol	NIST Webbook
hvap	38.50 ± 2.10	kJ/mol	NIST Webbook
ie	9.96	eV	NIST Webbook
ie	9.90 ± 0.10	eV	NIST Webbook
ie	9.88 ± 0.05	eV	NIST Webbook
ie	9.97	eV	NIST Webbook
ie	9.82 ± 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 ± 40.00	kPa	NIST Webbook
pc	3813.00 ± 50.00	kPa	NIST Webbook

pc	3826.00 ± 40.53	kPa	NIST Webbook
pc	3820.00	kPa	KDB
rhoc	277.87 ± 3.93	kg/m3	NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	796.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	816.00		NIST Webbook
rinpol	812.00		NIST Webbook
rinpol	811.00		NIST Webbook
rinpol	789.00		NIST Webbook
rinpol	806.90		NIST Webbook
rinpol	837.50		NIST Webbook
rinpol	836.00		NIST Webbook
rinpol	837.00		NIST Webbook
rinpol	794.20		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	806.90		NIST Webbook
rinpol	819.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	789.00		NIST Webbook
rinpol	788.00		NIST Webbook
rinpol	837.50		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	787.00		NIST Webbook
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rinpol	803.00		NIST Webbook
rinpol	784.00		NIST Webbook
rinpol	812.00		NIST Webbook
rinpol	786.00		NIST Webbook
rinpol	795.00		NIST Webbook
rinpol	800.00		NIST Webbook
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rinpol	816.00		NIST Webbook
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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	789.00		NIST Webbook
rinpol	819.00		NIST Webbook
ripol	883.00		NIST Webbook
ripol	899.00		NIST Webbook
ripol	899.00		NIST Webbook
ripol	883.00		NIST Webbook
ripol	878.00		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	391.99 ± 0.30	K	NIST Webbook
tb	391.99 ± 0.20	K	NIST Webbook
tb	393.00 ± 2.00	K	NIST Webbook
tb	391.99 ± 0.30	K	NIST Webbook
tb	391.63	K	KDB
tb	391.70	K	NIST Webbook
tb	391.63 ± 0.30	K	NIST Webbook
tc	604.20 ± 0.50	K	NIST Webbook
tc	604.20 ± 0.50	K	NIST Webbook
tc	604.20	K	KDB
tf	265.12	K	KDB
tt	265.12 ± 0.05	K	NIST Webbook
tt	265.10 ± 3.00	K	NIST Webbook
tt	265.00 ± 0.07	K	NIST Webbook
vc	0.353	m3/kmol	NIST Webbook
vc	0.354 ± 0.007	m3/kmol	NIST Webbook
vc	0.353	m3/kmol	KDB
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	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
cpg	170.69	J/mol×K	388.05	Joback Method
cpg	260.93	J/mol×K	600.09	Joback Method
cpl	180.47	J/mol×K	298.15	NIST Webbook
cpl	180.75	J/mol×K	298.15	NIST Webbook
cpl	180.61	J/mol×K	298.15	NIST Webbook
dvisc	0.0006718	Pa×s	317.62	Joback Method
dvisc	0.0002763	Pa×s	388.05	Joback Method
dvisc	0.0027104	Pa×s	247.18	Joback Method
dvisc	0.0077075	Pa×s	211.97	Joback Method
dvisc	0.0332403	Pa×s	176.75	Joback Method
dvisc	0.0012369	Pa×s	282.40	Joback Method
dvisc	0.0004121	Pa×s	352.83	Joback Method
hfust	1.88	kJ/mol	265.10	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	0.29	kJ/mol	198.20	NIST Webbook
hsubt	53.50	kJ/mol	134.00	NIST Webbook
hvapt	36.40	kJ/mol	365.50	NIST Webbook
hvapt	36.10	kJ/mol	387.00	NIST Webbook
hvapt	31.70	kJ/mol	540.00	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	36.94	J/mol×K	134.80	NIST Webbook
sfust	2.11	J/mol×K	212.40	NIST Webbook
sfust	1.46	J/mol×K	198.20	NIST Webbook
srf	0.03	N/m	298.20	KDB

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	320.36	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	320.05	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	297.20	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.12	W/m×K	297.01	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	280.35	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

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

Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Butyl-3-methylimidazolium	https://www.doi.org/10.1021/je800658v
Activity coefficients at infinite dilution of organic solvents and water in	https://www.doi.org/10.1016/j.fluid.2016.02.004
Activity coefficients at infinite dilution of organic solutes in the ionic liquid	https://www.doi.org/10.1016/j.jct.2009.07.010
Activity coefficients at infinite dilution of organic solutes in the ionic liquid	https://www.doi.org/10.1016/j.jct.2013.05.030
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2012.01.019
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2015.05.022
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2017.03.004
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2013.07.004
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2005.03.014
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.jct.2013.02.004
Evaluation of the Performance of	https://www.doi.org/10.1021/je201129y
Activity coefficients at infinite dilution	https://www.doi.org/10.1016/j.fluid.2018.06.003
Activity coefficients at infinite dilution of organic solutes in deep eutectic solvents:	https://www.doi.org/10.1016/j.jct.2018.02.014
NIST Webbook	http://webbook.nist.gov/cgi/cbook.cgi?ID=C291645&Units=SI
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid	https://www.doi.org/10.1016/j.jct.2011.11.025
Activity coefficients at infinite dilution for organic solutes and water in the ionic liquid	https://www.doi.org/10.1016/j.jct.2015.05.014
Activity Coefficients at Infinite Dilution of Organic Compounds in	https://www.doi.org/10.1021/je800754w
Activity coefficients at infinite dilution of organic solutes in the ionic liquid	https://www.doi.org/10.1016/j.jct.2010.12.005
Joback Method	https://en.wikipedia.org/wiki/Joback_method
The study of activity coefficients at infinite dilution for organic solutes and water in 1-butyl-4-methylpyridinium	https://www.doi.org/10.1016/j.jct.2013.09.007
Activity coefficients at infinite dilution of aliphatic and	https://www.doi.org/10.1016/j.jct.2008.12.018
Measurement of activity coefficients at infinite dilution using polar and non-polar solutes in the ionic liquid	http://link.springer.com/article/10.1007/BF02311772
Measurements of activity coefficients at infinite dilution of organic solutes in	https://www.doi.org/10.1016/j.jct.2005.07.003
Activity Coefficients at Infinite Dilution of Organic Solutes in	https://www.doi.org/10.1016/j.jct.2010.05.017
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid	https://www.doi.org/10.1021/je0256481
Activity coefficients at infinite dilution of organic solutes in	https://www.doi.org/10.1016/j.jct.2013.01.007
Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in	https://www.doi.org/10.1021/je300692s
Activity coefficients at infinite dilution of organic solutes in the ionic liquid	https://www.doi.org/10.1016/j.fluid.2008.10.008
Measurements of activity coefficients at infinite dilution for organic solutes in	https://www.doi.org/10.1016/j.jct.2014.12.027
Measurements of activity coefficients at infinite dilution for organic solutes in	https://www.doi.org/10.1016/j.jct.2012.05.017
Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three	https://www.doi.org/10.1021/je4001894
Thermodynamic study of activity coefficients at infinite dilution using	https://www.doi.org/10.1016/j.jct.2003.09.011
Activity coefficients at infinite dilution for organic solutes and water in the ionic liquid	https://www.doi.org/10.1016/j.jct.2008.12.005
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid	https://www.doi.org/10.1021/je900460m
Activity coefficients at infinite dilution of organic solutes in	https://www.doi.org/10.1016/j.fluid.2018.07.028
Measurements of activity coefficients at infinite dilution of aromatic and aliphatic hydrocarbons, alcohols, and	https://www.doi.org/10.1016/j.jct.2008.01.004
Separation of binary mixtures	https://www.doi.org/10.1016/j.jct.2017.11.017
Gas–liquid chromatography	https://www.doi.org/10.1016/j.jct.2010.01.004
Estimated Solution by Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
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 1-methylpyridinium tetracyanoborate:	https://www.doi.org/10.1016/j.jct.2012.08.016
Activity Coefficients at Infinite Dilution of Organic Solutes and Water in Trihexyltetradecyl Phosphonium Dicyanamide:	https://www.doi.org/10.1021/acs.jced.5b00980
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2014.03.020
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2018.07.024
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2006.07.015
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2012.01.004
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2013.02.006
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2013.05.011
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2005.01.015
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	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 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2009.08.012
Measurements of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2010.10.026
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2011.11.021
Measurements for organic solutes and water in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2009.06.011
Thermodynamics and selectivity of separation based on activity coefficients at infinite dilution for solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.jct.2016.06.028
Activity coefficients at infinite dilution for solutes in the ionic liquid 1-butyl-3-methylimidazolium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2017.12.029
Activity Coefficients at Infinite Dilution and Physicochemical Properties for Organic Solutes and Water in the Ionic Liquid 1-Butyl-3-methylimidazolium Methylsulfate:	https://www.doi.org/10.1021/acs.jced.8b00600
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
1,6-Hexanediol Deep Eutectic Solvent: Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Thermodynamics and activity coefficients at infinite dilution for solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2011.06.007
Infinite Dilution Activity Coefficients for Measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1021/je0602925
Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2012.03.005
Activity coefficients at infinite dilution for hydrocarbons in furfural-alcohol at T = (278.16 and 298.15) K, determined by Gas-Liquid Chromatography:	https://www.doi.org/10.1016/j.fluid.2017.06.001
Four-Component Mixtures Simulating the Binary Mixture (Cyclohexane + Hexadecane):	https://www.doi.org/10.1016/j.jct.2004.03.001
Determination of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1021/acs.jced.5b00331
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2018.09.024
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2005.04.021
Measurements of Activity Coefficients at Infinite Dilution for Solutes in the Ionic Liquid 1-Butyl-1-methylpyrrolidinium Methylsulfate:	https://www.doi.org/10.1021/je030187k
Measurements of Activity Coefficients at Infinite Dilution for Solutes in the Ionic Liquid 1-Butyl-1-methylpyrrolidinium Methylsulfate:	https://www.doi.org/10.1016/j.jct.2011.02.012
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-Butyl-1-methylpyrrolidinium Methylsulfate at 15 K:	https://www.doi.org/10.1021/je0500375
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1021/je800105r
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2013.10.026
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.fluid.2009.08.017
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1021/je9003178
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2013.10.017
Measurement of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	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-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2015.02.024
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium methylsulfate:	https://www.doi.org/10.1016/j.jct.2014.04.024
Measurements of Activity Coefficients at Infinite Dilution for Organic Solutes in 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide:	https://www.doi.org/10.1021/je101008y
1-Butyl-1-methylpiperydinium Thiocyanate:	

Study of interaction between organic compounds and mono or dicationic oxygenated ionic liquids using gas chromatography:	https://www.doi.org/10.1016/j.fluid.2014.11.020
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-octyl-3-methylimidazolium hexafluorophosphate using gas liquid chromatography at T = (313.15, 323.15, and 333.15) K:	https://www.doi.org/10.1016/j.jct.2009.12.004
Thermodynamics and activity coefficients at infinite dilution for organic solutes in the ionic liquid 1-butyl-1-methylmorpholinium tricyanomethanide:	https://www.doi.org/10.1016/j.jct.2013.08.030
KDB Vapor Pressure Data on the ionic liquid 1-butyl-1-methylmorpholinium tricyanomethanide:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=478
Measurements of activity coefficients at infinite dilution for organic solutes in two quaternary ammonium-based ionic liquids [DDA][OIO4] and [DDA][BF4]:	https://www.doi.org/10.1016/j.fluid.2018.11.011
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-methyl(trioctyl)ammonium thiosalicylate, [N1888][TS] by gas liquid chromatography at T = (303.15, 313.15, and 323.15) K:	https://www.doi.org/10.1016/j.jct.2010.12.020
Measurements for Organic Solutes and Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate:	https://www.doi.org/10.1021/je1000582
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(2-methoxyethyl)-1-methylpyridinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2012.03.015
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(3-hydroxyphenyl)-1-methylpyridinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2016.01.017
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-(3-hydroxyphenyl)-1-methylpyridinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.jct.2011.04.018
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-(3-hydroxyphenyl)-1-methylpyridinium bis(trifluoromethylsulfonyl)-amide:	https://www.doi.org/10.1016/j.fluid.2006.03.002
Partition Coefficients of Organic Compounds in Four New Trimethylphosphonium Methylsulphate by gas liquid chromatography:	https://www.doi.org/10.1021/je200637v
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1021/je100410k
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1021/je034162x
Diffusivity of Twenty Nine Liquids Using Gas Liquid Chromatography:	https://www.doi.org/10.1016/j.fluid.2009.01.011
Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1016/j.jct.2008.04.002
Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1021/je0498107
Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1021/je900890u
Measurements for Organic Solutes and Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid 1-butyl-1-methylpyridinium tributylmethanesulfonate using GLC:	https://www.doi.org/10.1021/je900838a
Dimethylphosphate Ionic Liquids Using Gas-Liquid Chromatography at T = (313.15, 323.15, and 333.15) K:	https://www.doi.org/10.1016/j.jct.2017.10.003
Activity coefficients at infinite dilution in organic solutes in 1,3-dodecyl-2-methylimidazolium dicyanamide ionic liquid:	https://www.doi.org/10.1016/j.jct.2015.02.023
Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate using gas liquid chromatography at T = (313.15, 323.15, and 333.15) K:	https://www.doi.org/10.1016/j.jct.2010.12.019
Experimental and theoretical study on infinite dilution activity coefficients of thermodynamics and limiting activity coefficients measurements for organic solutes and water in the ionic liquid 1-dodecyl-3-methylimidzolium bis(trifluoromethylsulfonyl) imide:	https://www.doi.org/10.1016/j.jct.2013.01.005
Thermodynamics and limiting activity coefficients measurements for organic solutes and water in the ionic liquid 1-dodecyl-3-methylimidzolium bis(trifluoromethylsulfonyl) imide:	https://www.doi.org/10.1016/j.jct.2016.08.008
Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in the ionic liquid trihexyl-tetradecyl-phosphonium tricyanomethanide:	https://www.doi.org/10.1016/j.jct.2018.01.003

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

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