

Cyclohexene

Other names:	1,2,3,4-TETRAHYDROBENZENE 1-Cyclohexene BENZENETETRAHYDRIDE Benzene tetrahydride Benzene, tetrahydro- Cyclohex-1-ene Cykloheksen Hexanaphthylene NSC 24835 TETRAHYDROBENZENE UN 2256
Inchi:	InChI=1S/C6H10/c1-2-4-6-5-3-1/h1-2H,3-6H2
InchiKey:	HGCIXCUEYOPUTN-UHFFFAOYSA-N
Formula:	C6H10
SMILES:	C1=CCCCC1
Mol. weight [g/mol]:	82.14
CAS:	110-83-8

Physical Properties

Property code	Value	Unit	Source
affp	784.50	kJ/mol	NIST Webbook
basg	752.00	kJ/mol	NIST Webbook
chl	-3752.39 ± 0.49	kJ/mol	NIST Webbook
chl	-3751.50 ± 0.50	kJ/mol	NIST Webbook
chl	-3752.00 ± 0.50	kJ/mol	NIST Webbook
chl	-3761.00	kJ/mol	NIST Webbook
gf	61.76	kJ/mol	Joback Method
hf	-4.70	kJ/mol	NIST Webbook
hf	-4.32 ± 0.98	kJ/mol	NIST Webbook
hf	-7.10	kJ/mol	NIST Webbook
hf	-5.30	kJ/mol	NIST Webbook
hfl	-38.80 ± 0.59	kJ/mol	NIST Webbook
hfl	-38.20 ± 0.59	kJ/mol	NIST Webbook
hfl	-37.80 ± 8.20	kJ/mol	NIST Webbook
hfl	-40.60 ± 0.79	kJ/mol	NIST Webbook
hfus	3.28	kJ/mol	Joback Method
hvap	33.57	kJ/mol	NIST Webbook

hvap	33.50 ± 0.53	kJ/mol	NIST Webbook
hvap	33.50	kJ/mol	NIST Webbook
hvap	33.50 ± 0.50	kJ/mol	NIST Webbook
hvap	30.50 ± 0.30	kJ/mol	NIST Webbook
ie	9.12	eV	NIST Webbook
ie	9.12	eV	NIST Webbook
ie	8.95 ± 0.01	eV	NIST Webbook
ie	8.94	eV	NIST Webbook
ie	8.94 ± 0.02	eV	NIST Webbook
ie	8.95	eV	NIST Webbook
ie	8.94 ± 0.01	eV	NIST Webbook
ie	9.57 ± 0.05	eV	NIST Webbook
ie	8.99	eV	NIST Webbook
ie	8.92	eV	NIST Webbook
ie	8.95 ± 0.01	eV	NIST Webbook
ie	8.94	eV	NIST Webbook
ie	8.92 ± 0.02	eV	NIST Webbook
ie	8.95 ± 0.01	eV	NIST Webbook
ie	9.09	eV	NIST Webbook
ie	9.11	eV	NIST Webbook
ie	9.12	eV	NIST Webbook
log10ws	-2.59		Estimated Solubility Method
log10ws	-2.59		Aqueous Solubility Prediction Method
logp	2.117		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=1)		KDB
pc	4328.25	kPa	Joback Method
rinpol	682.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	677.00		NIST Webbook
rinpol	681.00		NIST Webbook
rinpol	683.00		NIST Webbook
rinpol	700.00		NIST Webbook
rinpol	678.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	700.00		NIST Webbook
rinpol	714.00		NIST Webbook
rinpol	687.00		NIST Webbook

rinpol	657.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	665.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	703.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	666.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	683.00	NIST Webbook
rinpol	643.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	705.00	NIST Webbook
rinpol	689.00	NIST Webbook
rinpol	679.00	NIST Webbook
rinpol	689.00	NIST Webbook
rinpol	705.00	NIST Webbook
rinpol	685.00	NIST Webbook
rinpol	689.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	704.40	NIST Webbook
rinpol	688.00	NIST Webbook
rinpol	683.00	NIST Webbook
rinpol	680.50	NIST Webbook
rinpol	676.80	NIST Webbook
rinpol	698.00	NIST Webbook
rinpol	693.00	NIST Webbook
rinpol	688.00	NIST Webbook
rinpol	684.00	NIST Webbook
rinpol	688.00	NIST Webbook
rinpol	683.00	NIST Webbook
rinpol	687.50	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	700.00	NIST Webbook
rinpol	690.00	NIST Webbook
rinpol	694.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	685.10	NIST Webbook
rinpol	675.90	NIST Webbook
rinpol	704.00	NIST Webbook
rinpol	679.00	NIST Webbook

rinpol	671.00	NIST Webbook
rinpol	675.70	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	676.00	NIST Webbook
rinpol	677.00	NIST Webbook
rinpol	683.00	NIST Webbook
rinpol	670.50	NIST Webbook
rinpol	670.40	NIST Webbook
rinpol	672.40	NIST Webbook
rinpol	672.40	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	677.00	NIST Webbook
rinpol	685.00	NIST Webbook
rinpol	687.00	NIST Webbook
rinpol	666.00	NIST Webbook
rinpol	683.00	NIST Webbook
rinpol	702.00	NIST Webbook
rinpol	687.00	NIST Webbook
rinpol	666.00	NIST Webbook
rinpol	685.00	NIST Webbook
rinpol	668.30	NIST Webbook
rinpol	674.40	NIST Webbook
rinpol	679.00	NIST Webbook
rinpol	668.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	679.00	NIST Webbook
rinpol	679.00	NIST Webbook
rinpol	680.00	NIST Webbook
rinpol	707.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	677.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	689.00	NIST Webbook
rinpol	677.00	NIST Webbook
rinpol	681.00	NIST Webbook
rinpol	695.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	673.60	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	687.40	NIST Webbook

rinpol	701.10		NIST Webbook
rinpol	677.10		NIST Webbook
rinpol	676.70		NIST Webbook
rinpol	678.80		NIST Webbook
rinpol	677.10		NIST Webbook
rinpol	676.70		NIST Webbook
rinpol	678.80		NIST Webbook
rinpol	667.76		NIST Webbook
rinpol	667.80		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	675.00		NIST Webbook
ripol	849.70		NIST Webbook
ripol	822.00		NIST Webbook
ripol	832.40		NIST Webbook
ripol	808.00		NIST Webbook
ripol	808.00		NIST Webbook
ripol	811.00		NIST Webbook
ripol	850.00		NIST Webbook
ripol	832.00		NIST Webbook
ripol	808.00		NIST Webbook
ripol	808.00		NIST Webbook
ripol	849.70		NIST Webbook
ripol	840.90		NIST Webbook
ripol	841.00		NIST Webbook
ripol	825.00		NIST Webbook
ripol	850.00		NIST Webbook
ripol	832.40		NIST Webbook
ripol	840.90		NIST Webbook
sg	310.45	J/mol×K	NIST Webbook
sl	216.70	J/mol×K	NIST Webbook
sl	214.60	J/mol×K	NIST Webbook
sl	216.19	J/mol×K	NIST Webbook
tb	355.97	K	Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and 2-Methoxyethanol at 100 kPa
tb	356.13	K	KDB
tb	355.97	K	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

tb	356.15	K	Vapor Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure
tb	355.97	K	Isobaric Vapor-Liquid Equilibria for Binary and Ternary Mixtures with Cyclohexane, Cyclohexene, and Methyl Isobutyl Ketone at 100 kPa
tc	560.40	K	KDB
tc	560.40 ± 0.10	K	NIST Webbook
tc	560.40	K	NIST Webbook
tc	553.50 ± 0.15	K	NIST Webbook
tc	560.40 ± 0.30	K	NIST Webbook
tc	560.42 ± 0.02	K	NIST Webbook
tf	169.80 ± 0.30	K	NIST Webbook
tf	168.00 ± 3.00	K	NIST Webbook
tf	169.49 ± 0.20	K	NIST Webbook
tf	169.10 ± 1.00	K	NIST Webbook
tf	169.45 ± 0.50	K	NIST Webbook
tf	169.00 ± 0.30	K	NIST Webbook
tf	169.60	K	KDB
tf	169.64 ± 0.06	K	NIST Webbook
tf	169.00 ± 1.50	K	NIST Webbook
tf	169.27	K	Aqueous Solubility Prediction Method
tf	169.05 ± 0.20	K	NIST Webbook
tt	169.67 ± 0.05	K	NIST Webbook
tt	169.66 ± 0.02	K	NIST Webbook
tt	169.00 ± 0.20	K	NIST Webbook
vc	0.291	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	133.47	J/mol×K	370.00	NIST Webbook
cpg	148.53	J/mol×K	410.00	NIST Webbook
cpg	141.42	J/mol×K	390.00	NIST Webbook
cpl	152.90	J/mol×K	298.12	NIST Webbook
cpl	148.35	J/mol×K	298.15	NIST Webbook
cpl	149.16	J/mol×K	298.15	NIST Webbook

cpl	145.60	J/mol×K	293.20	NIST Webbook
cpl	148.80	J/mol×K	298.15	NIST Webbook
dvisc	0.0008741	Pa×s	264.91	Joback Method
dvisc	0.0005491	Pa×s	296.63	Joback Method
dvisc	0.0002771	Pa×s	360.06	Joback Method
dvisc	0.0099936	Pa×s	169.76	Joback Method
dvisc	0.0003774	Pa×s	328.34	Joback Method
dvisc	0.0034351	Pa×s	201.48	Joback Method
dvisc	0.0015788	Pa×s	233.19	Joback Method
hfust	4.23	kJ/mol	138.70	NIST Webbook
hfust	3.28	kJ/mol	169.70	NIST Webbook
hfust	3.28	kJ/mol	169.70	NIST Webbook
hvapt	32.20 ± 0.10	kJ/mol	323.00	NIST Webbook
hvapt	33.70	kJ/mol	321.00	NIST Webbook
hvapt	30.70 ± 0.10	kJ/mol	353.00	NIST Webbook
hvapt	31.20 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	32.59	kJ/mol	300.00	NIST Webbook
hvapt	32.60	kJ/mol	260.50	NIST Webbook
hvapt	31.70 ± 0.10	kJ/mol	333.00	NIST Webbook
hvapt	30.46	kJ/mol	356.20	NIST Webbook
hvapt	32.80	kJ/mol	335.50	NIST Webbook
hvapt	32.90	kJ/mol	333.00	NIST Webbook
hvapt	32.60	kJ/mol	334.00	NIST Webbook
hvapt	32.70	kJ/mol	337.00	NIST Webbook
hvapt	33.10	kJ/mol	313.50	NIST Webbook
hvapt	32.70 ± 0.10	kJ/mol	313.00	NIST Webbook
pvap	19.80	kPa	310.15	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	39.70	kPa	328.05	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	59.60	kPa	339.55	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol

pvap	69.70	kPa	344.25	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	79.80	kPa	348.45	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	89.80	kPa	352.20	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	101.80	kPa	356.35	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	29.70	kPa	320.35	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol
pvap	24.94	kPa	315.56	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	27.43	kPa	318.01	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

pvap	29.98	kPa	320.26	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	32.47	kPa	322.34	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	34.95	kPa	324.31	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	37.52	kPa	326.23	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	39.98	kPa	327.96	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	42.45	kPa	329.61	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

pvap	45.01	kPa	331.23	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	47.48	kPa	332.73	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	50.02	kPa	334.22	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	52.51	kPa	335.62	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	55.02	kPa	336.98	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	57.52	kPa	338.27	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

pvap	59.98	kPa	339.52	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	62.46	kPa	340.73	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	65.02	kPa	341.94	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	67.51	kPa	343.07	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	69.97	kPa	344.16	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	72.51	kPa	345.27	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

pvap	74.96	kPa	346.30	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	77.48	kPa	347.33	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	80.02	kPa	348.35	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	82.52	kPa	349.31	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	84.99	kPa	350.26	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	87.45	kPa	351.18	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa

pvap	89.96	kPa	352.09	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	92.46	kPa	352.97	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	95.01	kPa	353.85	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	97.52	kPa	354.71	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	101.33	kPa	355.97	Isobaric vapor liquid equilibrium for binary mixtures of 1-hexene + n-hexane and cyclohexane + cyclohexene at 30, 60 and 101.3 kPa
pvap	101.33	kPa	356.15	Vapor Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure

pvap	49.60	kPa	334.20	VLE and LLE Data for the System Cyclohexane + Cyclohexene + Water + Cyclohexanol	
rfi	1.44378		298.15	Separation of toluene from cyclic hydrocarbons using 1-butyl-3-methylimidazolium methylsulfate ionic liquid at T = 298.15 K and atmospheric pressure	
rfi	1.44378		298.15	Experimental data, correlation and prediction of the extraction of benzene from cyclic hydrocarbons using [Epy][ESO4] ionic liquid	
rhoI	805.69	kg/m3	298.15	Phase behavior of ternary mixtures {aliphatic hydrocarbon + aromatic hydrocarbon + ionic liquid}: Experimental LLE data and their modeling by COSMO-RS	
sfust	19.35	J/mol×K	169.70	NIST Webbook	
sfust	30.50	J/mol×K	138.70	NIST Webbook	
speedsl	1252.10	m/s	303.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.	

speedsl	1224.80	m/s	308.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.
speedsl	1196.60	m/s	313.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.
speedsl	1169.60	m/s	318.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.
tcondl	0.13	W/m×K	275.58	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	296.49	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	296.28	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	295.77	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	328.07	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	295.57	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	275.73	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	296.65	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	275.37	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	328.22	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	295.92	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.57	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.14	W/m×K	257.42	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.22	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	311.67	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	311.89	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	312.04	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	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	8.66975e+01
Coeff. B	-6.84280e+03
Coeff. C	-1.08968e+01
Coeff. D	9.11435e-06
Temperature range (K), min.	169.67
Temperature range (K), max.	560.40

Sources

<https://www.doi.org/10.1016/j.jct.2017.10.003>
<https://www.doi.org/10.1016/j.jct.2013.10.038>
<https://www.doi.org/10.1021/je100776x>
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Experimental data, correlation and prediction of the extraction of benzene from cyclic hydrocarbons using

[illegible]

Activity coefficients at infinite dilution and physicochemical properties for organic solutes and water in ternary limiting activity coefficients data using the thermodynamic basis for nonelectrolyte activity coefficients mixtures based on the virial equation of state for phosphoric acid.

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1) ammonium

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Abstract

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Separation of binary mixtures
hexane/hex-1-ene,
Activity coefficients at infinite dilution
and thermodynamic properties for
organic solvents at low water dilution
and physicochemical properties for
organic solvents and their mixtures on
infinite dilution in water
of hydrogen bonding in organic liquids
dipolar amide-based ionic liquids in the
room liquid phase
of hex-1-ene
between cyclohexane and activity
coefficients at infinite dilution for the
ternary systems of nine liquids:
Alkanes, Cycloalkanes, Alkenes,
Monomers of vinyl and had separated
intercalated in the monolayers,
behavior of ion volume ratio, mod.
ONH₂CO₂H and ONH₂CO₂NH₂:
hydrocarbons in C78H158 branched
alkane solvents (Density, Viscosity,
Surface Tension, Interfacial Tension,
Acid contact angles of the system
and physicochemical properties for
organic solvents and water in the ionic
liquid phase
investigation
of initiating activity coefficients:
trifluorotris(perfluoroethyl)phosphate:

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Legend

affp:	Proton affinity
basg:	Gas basicity
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
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
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
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhof:	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
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume

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