Cyclopentane

Other names: PENTAMETHYLENE

UN 1146

Inchi: InChl=1S/C5H10/c1-2-4-5-3-1/h1-5H2
InchiKey: RGSFGYAAUTVSQA-UHFFFAOYSA-N

Formula: C5H10

SMILES: C1CCCC1

Mol. weight [g/mol]: 70.13

CAS: 287-92-3

Physical Properties

Property code	Value	Unit	Source
af	0.1960		KDB
aigt	653.15	K	KDB
ар	289.950	K	KDB
chl	-3291.40 ± 0.60	kJ/mol	NIST Webbook
chl	-3291.20 ± 1.30	kJ/mol	NIST Webbook
chl	-3290.90 ± 0.71	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
fll	1.10	% in Air	KDB
flu	8.70	% in Air	KDB
fpo	266.48	K	KDB
gf	38.60	kJ/mol	KDB
gyrad	3.1200		KDB
hcg	3290.93	kJ/mol	KDB
hcn	3070.889	kJ/mol	KDB
hf	-76.90	kJ/mol	NIST Webbook
hf	-76.40 ± 0.79	kJ/mol	NIST Webbook
hf	-77.29	kJ/mol	KDB
hf	-77.24 ± 0.75	kJ/mol	NIST Webbook
hfl	-105.90 ± 0.75	kJ/mol	NIST Webbook
hfl	-105.60 ± 1.80	kJ/mol	NIST Webbook
hfus	1.57	kJ/mol	Joback Method
hvap	27.29	kJ/mol	Joback Method
ie	10.53 ± 0.05	eV	NIST Webbook
ie	10.35	eV	NIST Webbook
ie	9.83 ± 0.05	eV	NIST Webbook
ie	10.33 ± 0.15	eV	NIST Webbook

ie	10.50	eV	NIST Webbook
ie	10.55 ± 0.03	eV	NIST Webbook
ie	10.70 ± 0.10	eV	NIST Webbook
ie	10.33 ± 0.15	eV	NIST Webbook
ie	10.54 ± 0.05	eV	NIST Webbook
ie	11.01	eV	NIST Webbook
ie	10.48	eV	NIST Webbook
ie	10.40	eV	NIST Webbook
ie	10.49	eV	NIST Webbook
ie	10.91 ± 0.07	eV	NIST Webbook
ie	10.50 ± 0.01	eV	NIST Webbook
ie	10.49	eV	NIST Webbook
ie	10.30 ± 0.10	eV	NIST Webbook
log10ws	-2.64		Aqueous Solubility Prediction Method
log10ws	-2.64		Estimated Solubility Method
logp	1.950		Crippen Method
mcvol	70.450	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=1)		KDB
рс	4514.03 ± 5.06	kPa	NIST Webbook
рс	4430.00 ± 50.66	kPa	NIST Webbook
рс	4510.00 ± 40.00	kPa	NIST Webbook
рс	4510.00	kPa	KDB
рс	4508.00 ± 40.53	kPa	NIST Webbook
rhoc	270.01 ± 2.81	kg/m3	NIST Webbook
rhoc	270.01 ± 4.21	kg/m3	NIST Webbook
rhoc	270.01 ± 2.10	kg/m3	NIST Webbook
rinpol	599.00		NIST Webbook
rinpol	566.00		NIST Webbook
rinpol	565.00		NIST Webbook
rinpol	568.00		NIST Webbook
rinpol	568.80		NIST Webbook
rinpol	565.55		NIST Webbook
rinpol	563.30		NIST Webbook
rinpol	575.90		NIST Webbook
rinpol	573.00		NIST Webbook
rinpol	576.00		NIST Webbook
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rinpol	571.00	NIST Webbook
rinpol	568.00	NIST Webbook
rinpol	572.00	NIST Webbook
rinpol	563.00	NIST Webbook
rinpol	566.00	NIST Webbook
rinpol	569.00	NIST Webbook
rinpol	572.00	NIST Webbook
rinpol	562.00	NIST Webbook
rinpol	563.00	NIST Webbook
rinpol	564.00	NIST Webbook
rinpol	568.00	NIST Webbook
rinpol	570.00	NIST Webbook
rinpol	578.00	NIST Webbook
rinpol	567.00	NIST Webbook
rinpol	562.00	NIST Webbook
rinpol	570.00	NIST Webbook
rinpol	587.00	NIST Webbook
rinpol	571.00	NIST Webbook
rinpol	557.00	NIST Webbook
rinpol	576.00	NIST Webbook
rinpol	566.50	NIST Webbook
rinpol	563.00	NIST Webbook
rinpol	553.70	NIST Webbook
rinpol	580.29	NIST Webbook
rinpol	563.20	NIST Webbook
rinpol	556.60	NIST Webbook
rinpol	554.33	NIST Webbook
rinpol	554.33	NIST Webbook
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rinpol	520.00	NIST Webbook
rinpol	524.00	NIST Webbook
rinpol	560.00	NIST Webbook
rinpol	560.00	NIST Webbook
rinpol	582.00	NIST Webbook
rinpol	562.00	NIST Webbook
rinpol	554.50	NIST Webbook
rinpol	564.00	NIST Webbook
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rinpol	527.00	NIST Webbook
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rinpol	558.00	NIST Webbook
rinpol	533.00	NIST Webbook
rinpol	572.00	NIST Webbook
rinpol	557.00	NIST Webbook
rinpol	570.00	NIST Webbook
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rinpol	559.00	NIST Webbook
rinpol	553.70	NIST Webbook
rinpol	554.33	NIST Webbook
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rinpol	577.00	
rinpol	568.30	NIST Webbook
rinpol	567.80	NIST Webbook
rinpol	572.00	NIST Webbook
rinpol	570.00	NIST Webbook
rinpol	568.00	NIST Webbook
rinpol	566.00	NIST Webbook
rinpol	565.00	NIST Webbook
rinpol	563.00	NIST Webbook
rinpol	574.50	NIST Webbook
rinpol	569.90	NIST Webbook
rinpol	569.40	NIST Webbook
rinpol	566.10	NIST Webbook
rinpol	565.60	NIST Webbook
rinpol	566.50	NIST Webbook
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rinpol	566.20	NIST Webbook
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rinpol	591.00	NIST Webbook
rinpol	582.40	NIST Webbook
rinpol	574.30	NIST Webbook
rinpol	573.00	NIST Webbook
rinpol	572.00	NIST Webbook
rinpol	558.00	NIST Webbook
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ripol	720.00		NIST Webbook
sl	204.47	J/mol×K	NIST Webbook
sl	204.14	J/mol×K	NIST Webbook
sl	206.70	J/mol×K	NIST Webbook
tb	322.40	K	KDB
tc	511.70 ± 0.20	K	NIST Webbook
tc	511.60	K	NIST Webbook
tc	511.70 ± 0.20	K	NIST Webbook
tc	511.70	K	KDB
tc	511.75 ± 0.05	K	NIST Webbook
tc	511.60 ± 0.15	K	NIST Webbook
tf	179.25 ± 0.07	K	NIST Webbook
tf	178.85 ± 0.30	K	NIST Webbook
tf	178.15 ± 0.50	K	NIST Webbook
tf	178.35 ± 0.50	K	NIST Webbook
tf	180.05 ± 0.50	K	NIST Webbook
tf	179.30	K	KDB
tf	179.20	K	Aqueous Solubility Prediction Method
tf	176.64 ± 0.30	K	NIST Webbook
tf	179.60 ± 0.30	K	NIST Webbook
tf	179.55 ± 0.30	K	NIST Webbook
tf	178.85 ± 0.30	K	NIST Webbook
tf	179.25 ± 0.40	K	NIST Webbook
tf	179.26 ± 0.40	K	NIST Webbook
tf	179.69 ± 0.10	K	NIST Webbook
tf	179.26 ± 0.07	K	NIST Webbook
tf	179.38 ± 0.05	K	NIST Webbook
tf	179.25 ± 0.06	K	NIST Webbook
tf	179.26 ± 0.05	K	NIST Webbook
tf	179.28 ± 0.04	K	NIST Webbook
tf	179.35 ± 0.20	K	NIST Webbook
tf	179.35 ± 0.20	K	NIST Webbook
tf	179.23 ± 0.01	K	NIST Webbook
tf	179.23 ± 0.05	K	NIST Webbook
tf	178.85 ± 0.20	K	NIST Webbook
tf	179.38 ± 0.05	K	NIST Webbook
tf	179.23 ± 0.40	K	NIST Webbook
tf	179.68 ± 0.30	K	NIST Webbook
tf	179.31 ± 0.20	K	NIST Webbook

tf	177.06 ± 0.20	K	NIST Webbook
tf	178.85 ± 0.30	K	NIST Webbook
tt	179.71 ± 0.01	K	NIST Webbook
tt	179.71 ± 0.05	K	NIST Webbook
tt	179.69 ± 0.08	K	NIST Webbook
tt	179.00 ± 0.20	K	NIST Webbook
VC	0.259	m3/kmol	NIST Webbook
VC	0.259	m3/kmol	KDB
ZC	0.2745520		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	93.96 ± 0.19	J/mol×K	329.05	NIST Webbook
cpg	150.70 ± 1.70	J/mol×K	503.00	NIST Webbook
cpg	139.47 ± 0.28	J/mol×K	463.10	NIST Webbook
cpg	138.70 ± 1.30	J/mol×K	463.00	NIST Webbook
cpg	126.30 ± 1.30	J/mol×K	424.00	NIST Webbook
cpg	117.09 ± 0.23	J/mol×K	395.05	NIST Webbook
cpg	117.30 ± 1.30	J/mol×K	395.00	NIST Webbook
cpg	108.16 ± 0.84	J/mol×K	372.00	NIST Webbook
cpg	102.01 ± 0.84	J/mol×K	353.00	NIST Webbook
cpg	160.10 ± 1.70	J/mol×K	539.00	NIST Webbook
cpl	126.17	J/mol×K	293.15	NIST Webbook
cpl	126.74	J/mol×K	298.15	NIST Webbook
cpl	127.44	J/mol×K	300.00	NIST Webbook
cpl	126.78	J/mol×K	298.15	NIST Webbook
cpl	128.83	J/mol×K	298.15	NIST Webbook
cpl	125.90	J/mol×K	293.70	NIST Webbook
cpl	126.87	J/mol×K	298.15	NIST Webbook
cpl	127.28	J/mol×K	298.15	NIST Webbook
dvisc	0.0002690	Paxs	343.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane

dvisc	0.0003940	Paxs	303.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures	
dvisc	0.0004150	Paxs	298.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures	
dvisc	0.0004380	Paxs	293.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures	
dvisc	0.0004173	Paxs	298.15	Temperature and Density Dependence of the Viscosity of Cyclopentane	
dvisc	0.0004405	Paxs	293.15	Temperature and Density Dependence of the Viscosity of Cyclopentane	
dvisc	0.0004657	Paxs	288.15	Temperature and Density Dependence of the Viscosity of Cyclopentane	
dvisc	0.0004932	Paxs	283.15	Temperature and Density Dependence of the Viscosity of Cyclopentane	
dvisc	0.0005230	Paxs	278.15	Temperature and Density Dependence of the Viscosity of Cyclopentane	
dvisc	0.0002502	Paxs	353.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	

dvisc	0.0002590	Paxs	348.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003740	Paxs	308.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures	
dvisc	0.0002793	Paxs	338.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0002912	Paxs	333.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003048	Paxs	328.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003190	Paxs	323.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003350	Paxs	318.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003521	Paxs	313.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003714	Paxs	308.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003923	Paxs	303.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0004148	Paxs	298.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0004382	Paxs	293.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0004646	Paxs	288.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	

dvisc	0.0004922	Paxs	283.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0005224	Paxs	278.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0005567	Paxs	273.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003550	Paxs	313.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures	
dvisc	0.0006347	Paxs	263.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0006786	Paxs	258.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0007268	Pa×s	253.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane	
dvisc	0.0003940	Paxs	303.15	Dynamic viscosities of binary mixtures of cycloalkanes with primary alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO interaction parameters	
dvisc	0.0004160	Paxs	298.15	Dynamic viscosities of binary mixtures of cycloalkanes with primary alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO interaction parameters	

dvisc	0.0004390	Paxs	293.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K
dvisc	0.0004160	Paxs	298.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K
dvisc	0.0005930	Paxs	268.15	Saturated Liquid Viscosity of Cyclopentane and Isopentane
dvisc	0.0004380	Paxs	293.15	Viscosities, Densities, and Speed of Sound of the Cycloalkanes with Secondary Alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO Interaction Parameters
dvisc	0.0004390	Paxs	293.15	Viscosities, Densities, and Speed of Sound of the Cycloalkanes with Secondary Alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO Interaction Parameters

dvisc	0.0004160	Paxs	298.15	Viscosities, Densities, and Speed of Sound of the Cycloalkanes with Secondary Alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO Interaction Parameters	
dvisc	0.0003940	Paxs	303.15	Viscosities, Densities, and Speed of Sound of the Cycloalkanes with Secondary Alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO Interaction Parameters	
dvisc	0.0004390	Paxs	293.15	Dynamic viscosities of binary mixtures of cycloalkanes with primary alcohols at T = (293.15, 298.15, and 303.15) K: New UNIFAC-VISCO interaction parameters	
dvisc	0.0003940	Paxs	303.15	Dynamic Viscosities of the Binary Systems Cyclohexane and Cyclopentane with Acetone, Butanone, or 2-Pentanone at Three Temperatures T) (293.15, 298.15, and 303.15) K	
hfust	4.90	kJ/mol	122.00	NIST Webbook	
hfust	0.34	kJ/mol	138.00	NIST Webbook	
hfust	0.60	kJ/mol	179.70	NIST Webbook	
hfust	0.60	kJ/mol	179.70	NIST Webbook	
hsubt	42.60	kJ/mol	122.00	NIST Webbook	
hvapt	27.30 ± 0.10	kJ/mol	322.00	NIST Webbook	
hvapt	27.50	kJ/mol	481.50	NIST Webbook	
hvapt	27.20	kJ/mol	418.00	NIST Webbook	
hvapt	28.00	kJ/mol	353.00	NIST Webbook	
hvapt	29.00	kJ/mol	306.00	NIST Webbook	

hvapt	27.40	kJ/mol	323.00	NIST Webbook	
hvapt	27.30	kJ/mol	322.40	KDB	
hvapt	27.30	kJ/mol	322.40	NIST Webbook	
hvapt	29.21	kJ/mol	298.15	NIST Webbook	
hvapt	29.20	kJ/mol	305.50	NIST Webbook	
hvapt	27.90 ± 0.10	kJ/mol	310.00	NIST Webbook	
rfi	1.40363		298.15	KDB	
rfi	1.40640		293.15	Isobaric Vapor Liquid Equilibrium for Nine Binary Systems of Cracking C5 Fraction at 250 kPa	
rfi	1.40292		298.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K	
rfi	1.39456		313.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K	
rhol	747.70	kg/m3	288.15	Phase equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	
rhol	762.30	kg/m3	273.15	Phase equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	
rhol	745.00	kg/m3	293.00	KDB	

rhol	757.50	kg/m3	278.15	Phase	
		J		equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	
rhol	737.80	kg/m3	298.15	Phase equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	
rhol	740.00	kg/m3	298.15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes and Aromatic Compounds at T = 313.15 K	
rhol	726.57	kg/m3	308.15	Densities and Excess Molar Volumes of Cyclopentane (1) + 1-Alkanol (2) Systems at (298.15 and 308.15) K	
rhol	733.63	kg/m3	298.15	Densities and Excess Molar Volumes of Cyclopentane (1) + 1-Alkanol (2) Systems at (298.15 and 308.15) K	
rhol	745.70	kg/m3	293.15	Correlation of Experimental Liquid Liquid Equilibrium Data for Ternary Systems Using NRTL and GMDH-Type Neural Network	
rhol	752.60	kg/m3	283.15	Phase equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	

Properties	rhol	742.80	kg/m3	293.15	Phase equilibrium relations for binary mixed hydrate systemscomposed of carbon dioxide and cyclopentane derivatives	
sfust 3.35 J/molxK 179.70 NIST Webbook speedsl 40.13 J/molxK 122.00 NIST Webbook speedsl 1129.90 m/s 313.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1206.60 m/s 298.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1283.50 m/s 283.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures srf 0.02 N/m 313.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures srf 0.02 N/m 283.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures	rhol	739.74	kg/m3	298.15	predicted vapour liquid equilibrium of 1,4-dioxane with cycloalkanes	
sfust 40.13 J/molxK 122.00 NIST Webbook speedsl 1129.90 m/s 313.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1206.60 m/s 298.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1283.50 m/s 283.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures srf 0.02 N/m 313.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures srf 0.02 N/m 283.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures	sfust	2.49	J/mol×K	138.00	NIST Webbook	
speedsl 1129.90 m/s 313.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1206.60 m/s 298.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1283.50 m/s 283.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures speedsl 1283.50 m/s 283.15 Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures srf 0.02 N/m 313.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures srf 0.02 N/m 283.15 Thermophysical study of 1,4-dioxane with cycloalkane mixtures	sfust	3.35	J/mol×K	179.70	NIST Webbook	
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study of 1,4-dioxane with cycloalkane mixtures	srf	0.02	N/m	313.15	study of 1,4-dioxane with cycloalkane	
srf 0.02 N/m 293.20 KDB	srf	0.02	N/m	283.15	study of 1,4-dioxane with cycloalkane	
	srf	0.02	N/m	293.20	KDB	

srf	0.02	N/m	298.15	Thermophysical study of 1,4-dioxane with cycloalkane mixtures
svapt	97.98	J/mol×K	298.15	NIST Webbook
tcondl	0.13	W/m×K	293.97	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.27	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	276.13	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	276.33	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

toondl	0.42	W/m×K	276.47	Thormal
tcondl	0.13	VV/III×K	210.41	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	293.63	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	293.83	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.14	W/m×K	257.08	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	300.67	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.13	W/m×K	300.87	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.13	W/m×K	301.01	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	316.21	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	316.40	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
tcondl	0.12	W/m×K	316.54	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	

tcondl	0.14	W/m×K	257.40	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons	
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Correlations

Information Value

Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.42014e+01
Coeff. B	-2.76893e+03
Coeff. C	-3.34600e+01
Temperature range (K), min.	232.47
Temperature range (K), max.	344.93

Information Value

Property code	pvap
Equation	$ln(Pvp) = A + B/T + C*ln(T) + D*T^2$
Coeff. A	6.44024e+01
Coeff. B	-5.38926e+03
Coeff. C	-7.58416e+00
Coeff. D	7.08554e-06
Temperature range (K), min.	179.28
Temperature range (K), max.	511.76

Datasets

Speed of sound, m/s

	258.15	100.00	1419.058
	258.15	5072.00	1446.07
	258.15	10244.00	1473.008
	258.15	15262.00	1498.119
	258.15	20158.00	1521.653
	258.15	25083.00	1544.511
	258.15	30141.00	1567.131
	273.15	100.00	1336.626
	273.15	5169.00	1366.736
	273.15	10059.00	1394.32
	273.15	15219.00	1422.015
	273.15	20251.00	1447.913
	273.15	25184.00	1472.273
	273.15	30227.00	1496.252
	293.15	105.00	1230.093
	293.15	5059.00	1262.962
	293.15	10088.00	1294.375
	293.15	15198.00	1324.591
	293.15	20121.00	1352.283
	293.15	25192.00	1379.573
	293.15	30134.00	1404.98
	313.15	107.00	1126.831
	313.15	5113.00	1164.014
	313.15	10058.00	1198.273
	313.15	15132.00	1231.306
	313.15	20097.00	1261.807
	313.15	25098.00	1290.997
	313.15	30162.00	1319.175
	333.15	149.00	1026.636
	333.15	5035.00	1067.634
	333.15	10139.00	1106.967
	333.15	15108.00	1142.542
	333.15	20130.00	1176.238
	333.15	25152.00	1207.969
	333.15	30170.00	1238.041
	353.15	261.00	929.399
	353.15	5019.00	974.633
	353.15	10069.00	1018.218
	353.15	15107.00	1058.051
	353.15	20063.00	1094.384
	353.15	25009.00	1128.301
	353.15	30157.00	1161.49
Deference			https://www.doi.org/10.1001/joE010161

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
273.15	100.00	0.0005628
273.15	10000.00	0.0006148
273.15	30000.00	0.0007203
273.15	40000.00	0.0007767
293.15	100.00	0.0004413
293.15	10000.00	0.0004827
293.15	30000.00	0.0005708
293.15	40000.00	0.0006167
298.15	100.00	0.0004167
298.15	10000.00	0.0004583
298.15	30000.00	0.0005409
298.15	40000.00	0.0005846
313.15	10000.00	0.0003920
313.15	30000.00	0.0004646
313.15	45000.00	0.0005222
333.15	10000.00	0.0003247
333.15	30000.00	0.0003882
333.15	45000.00	0.0004364
353.15	15000.00	0.0002868
353.15	30000.00	0.0003291
353.15	45000.00	0.0003727
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Reference https://www.doi.org/10.1021/je060416d

Sources

The study of activity coefficients at

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Compound at Three Temperatures:

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Development of a Henry s constant
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      correlation and solubility
   correlation and solubility
Separations of bitarypeixtures based on https://www.doi.org/10.1016/j.fluid.2017.12.029
tigiting activity coefficients detautains https://www.doi.org/10.1016/j.jct.2016.01.017
tigiting tight of the naphthenic ring on the https://www.doi.org/10.1016/j.fluid.2009.08.017
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      Magaman Mathad coefficients:
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      AHRTWARPPROKE ionic liquid
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Activity coefficients at infinite dilution
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bis(trifluoromethylsulfonyl)imide ionic

liquid using gas liquid chromatography:

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Reposties Data Tourism physical onic https://www.doi.org/10.1016/j.jct.2005.07.003 Representable and activity coefficients at infinite dilution using polar and heli-sible accidings to activity coefficients at infinite dilution using polar and heli-sible accidings to activity coefficients at infinite dilution and achysic selections as a construction of a complete selections and activity coefficients at infinite dilution and achysic selections are included as a construction of the sible of the coefficients of the coefficient of t Expelimentaherd perdiated venery liquid caviflation of organic solutes in the ionic liquid, being mice solutes and solutes in the solutes in t https://www.doi.org/10.1016/j.jct.2009.12.004
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https://www.doi.org/10.1016/j.jct.2012.03.015

https://www.doi.org/10.1016/j.fluid.2018.01.019

Legend

Acentric Factor af:

Autoignition Temperature aigt:

ap: **Aniline Point**

chl: Standard liquid enthalpy of combustion

cpg: Ideal gas heat capacity cpl: Liquid phase heat capacity

dm: **Dipole Moment** dvisc: Dynamic viscosity

fII: Lower Flammability Limit flu: Upper Flammability Limit

Flash Point (Open Cup Method) fpo:

gf: Standard Gibbs free energy of formation

gyrad: Radius of Gyration

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 temperaturehvap: Enthalpy of vaporization at standard conditionshvapt: Enthalpy of vaporization at a given temperature

ie: Ionization energy

log10ws: Log10 of Water solubility in mol/llogp: Octanol/Water partition coefficientmcvol: McGowan's characteristic volume

nfpaf:
NFPA Fire Rating
NFPA Health Rating
pc:
Critical Pressure
vapor pressure
rfi:
Refractive Index
rhoc:
Critical density
Liquid Density

rinpol: Non-polar retention indices

ripol: Polar retention indices

sfust: Entropy of fusion at a given temperature

sl: Liquid phase molar entropy at standard conditions

speedsl: Speed of sound in fluid

srf: Surface Tension

svapt: Entropy of vaporization at a given temperature

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tcondl: Liquid thermal conductivitytf: Normal melting (fusion) pointtt: Triple Point Temperature

vc: Critical Volume

zc: Critical Compressibility
zra: Rackett Parameter

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