

1-Propanol, 2-methyl-

Other names:	1-Hydroxymethylpropane
	2-METHYL-1-PROPANOL
	2-Methylpropan-1-ol
	2-Methylpropanol
	2-Methylpropanol-1
	2-Methylpropyl alcohol
	2-methyl-1-propanyl alcohol
	2-methylpropanol
	Alcool isobutylique
	Butanol-iso
	Fermentation butyl alcohol
	ISOBUTYL ALCOHOL
	ISOPROPYLCARBINOL
	Isobutanol
	Isobutylalkohol
	Isopropyl carbitol
	Methyl-2 propanol-1
	NSC 5708
	Propanol, 2-methyl-
	Rcra waste number U140
	UN 1212
	i-Butanol
	i-Butyl alcohol
	iso-C4H9OH
Inchi:	InChI=1S/C4H10O/c1-4(2)3-5/h4-5H,3H2,1-2H3
InchiKey:	ZXEKIIBDNHEJCQ-UHFFFAOYSA-N
Formula:	C4H10O
SMILES:	CC(C)CO
Mol. weight [g/mol]:	74.12
CAS:	78-83-1

Physical Properties

Property code	Value	Unit	Source
af	0.5920		KDB
affp	793.70	kJ/mol	NIST Webbook
aigt	699.82	K	KDB

basg	762.20	kJ/mol	NIST Webbook
chl	-2669.60 ± 0.59	kJ/mol	NIST Webbook
chl	-2668.50 ± 0.84	kJ/mol	NIST Webbook
chl	-2665.79	kJ/mol	NIST Webbook
dm	1.70	debye	KDB
dvisc	0.0034040	Paxs	Thermophysical Properties of Binary Mixtures of 2-Methyl-1-propanol with Hexane, Octane, and Decane at 298.15 K
dvisc	0.0033070	Paxs	Thermodynamic properties of binary liquid mixtures of diethylenetriamine with alcohols at different temperatures
fll	1.60	% in Air	KDB
flu	10.90	% in Air	KDB
fpc	305.37	K	KDB
fpo	300.93	K	KDB
gf	-167.40	kJ/mol	KDB
gyrad	3.1400		KDB
hf	-283.80 ± 0.90	kJ/mol	NIST Webbook
hf	-282.90	kJ/mol	NIST Webbook
hf	-284.00 ± 1.50	kJ/mol	NIST Webbook
hf	-283.40	kJ/mol	KDB
hfl	-334.60 ± 0.90	kJ/mol	NIST Webbook
hfl	-334.70 ± 0.84	kJ/mol	NIST Webbook
hfl	-333.60 ± 0.63	kJ/mol	NIST Webbook
hfus	6.68	kJ/mol	Joback Method
hvap	49.80	kJ/mol	NIST Webbook
hvap	42.89 ± 0.01	kJ/mol	NIST Webbook
hvap	50.70	kJ/mol	NIST Webbook
hvap	50.89	kJ/mol	NIST Webbook
hvap	48.80	kJ/mol	NIST Webbook
hvap	50.76 ± 0.03	kJ/mol	NIST Webbook
hvap	50.80 ± 0.10	kJ/mol	NIST Webbook
hvap	50.80	kJ/mol	NIST Webbook
hvap	50.79 ± 0.02	kJ/mol	NIST Webbook
hvap	50.80 ± 0.10	kJ/mol	NIST Webbook
hvap	50.84 ± 0.08	kJ/mol	NIST Webbook
ie	10.02 ± 0.05	eV	NIST Webbook
ie	10.11 ± 0.07	eV	NIST Webbook
ie	10.02 ± 0.02	eV	NIST Webbook
ie	10.12 ± 0.04	eV	NIST Webbook
ie	10.09 ± 0.02	eV	NIST Webbook
ie	10.47 ± 0.03	eV	NIST Webbook

log10ws	0.04		Aqueous Solubility Prediction Method
log10ws	0.10		Estimated Solubility Method
logp	0.635		Crippen Method
mcvol	73.090	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=1)		KDB
pc	4295.00	kPa	KDB
rhoc	271.29 ± 1.48	kg/m3	NIST Webbook
rhoc	269.06	kg/m3	NIST Webbook
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sg	350.00	J/mol×K	NIST Webbook
sl	214.50	J/mol×K	NIST Webbook
ss	140.70	J/mol×K	NIST Webbook
tb	380.62 ± 0.20	K	NIST Webbook
tb	380.15	K	Liquid-liquid equilibrium data for ternary aqueous mixtures containing 1-pentanol and 2-methyl-1-propanol at (298.15, 323.15, and 348.15) K
tb	380.83	K	Isobaric Vapor Liquid Equilibrium for the Binary Systems of sec-Butyl Acetate + n-Butyl Alcohol, Isobutyl Alcohol, or tert-Butyl Alcohol at 101.3 kPa
tb	380.98	K	Isobaric Vapor Liquid Equilibrium for the Binary and Ternary System with Isobutyl Alcohol, Isobutyl Acetate and Dimethyl Sulfoxide at 101.3 kPa
tb	380.93	K	Vapor-Liquid Equilibrium of Binary Mixtures Containing Ethyl Acetate + 2-Methyl-1-propanol and Ethyl Acetate + 2-Methyl-1-butanol at 101.3 kPa

tb	381.00	K	Vapor-Liquid Equilibria at 101.3 kPa for Binary Mixtures Containing 2-Methyl-1-propanol + 2-Methyl-1-butanol, 2-Methyl-1-propanol + 3-Methyl-1-butanol, and 2-Methyl-1-propanol + 1-Pentanol
tb	380.92	K	Vapor-Liquid Equilibrium Behaviors of Vanillin in 1-Butanol, 2-Butanol, and 2-Methyl-1-propanol
tb	380.92	K	Vapor Liquid Equilibrium Behaviors of 5-Methyl-2-(1-methylethyl)phenol in Alcohol
tb	380.98	K	High-Pressure Vapor-Liquid Equilibrium for Ethylene + 2-Methyl-1-propanol
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tb	410.55 ± 0.20	K	NIST Webbook
tb	381.10	K	NIST Webbook
tb	380.85 ± 0.40	K	NIST Webbook
tb	381.04	K	KDB
tb	380.85 ± 0.30	K	NIST Webbook
tb	379.55 ± 1.00	K	NIST Webbook
tb	380.40 ± 0.50	K	NIST Webbook
tb	380.79 ± 0.30	K	NIST Webbook
tb	380.82 ± 0.30	K	NIST Webbook
tb	378.20 ± 0.50	K	NIST Webbook
tb	376.30 ± 0.20	K	NIST Webbook
tb	380.40 ± 0.30	K	NIST Webbook
tb	381.04 ± 0.10	K	NIST Webbook
tb	380.55 ± 0.20	K	NIST Webbook
tb	381.05 ± 0.50	K	NIST Webbook
tb	380.15 ± 0.30	K	NIST Webbook
tb	381.00 ± 0.30	K	NIST Webbook
tb	380.85 ± 0.20	K	NIST Webbook
tb	379.05 ± 1.00	K	NIST Webbook
tb	381.20 ± 0.30	K	NIST Webbook
tb	381.00 ± 0.50	K	NIST Webbook
tb	381.00 ± 1.50	K	NIST Webbook

tb	381.30 ± 0.20	K	NIST Webbook
tb	381.00 ± 0.50	K	NIST Webbook
tb	381.00 ± 0.50	K	NIST Webbook
tb	381.00 ± 0.50	K	NIST Webbook
tb	381.25 ± 0.15	K	NIST Webbook
tb	381.15 ± 0.30	K	NIST Webbook
tb	381.10 ± 0.30	K	NIST Webbook
tb	380.96 ± 0.20	K	NIST Webbook
tb	380.25 ± 0.50	K	NIST Webbook
tb	380.55 ± 0.50	K	NIST Webbook
tb	379.90 ± 1.50	K	NIST Webbook
tb	380.65 ± 0.50	K	NIST Webbook
tb	381.04 ± 0.10	K	NIST Webbook
tb	381.35 ± 0.50	K	NIST Webbook
tb	380.65 ± 0.50	K	NIST Webbook
tb	380.15 ± 1.00	K	NIST Webbook
tb	374.65 ± 2.00	K	NIST Webbook
tb	378.15 ± 2.00	K	NIST Webbook
tb	380.35 ± 0.50	K	NIST Webbook
tb	384.15 ± 3.00	K	NIST Webbook
tb	380.65 ± 0.50	K	NIST Webbook
tb	375.15 ± 5.00	K	NIST Webbook
tb	381.15 ± 0.25	K	NIST Webbook
tb	380.94 ± 0.40	K	NIST Webbook
tb	380.00 ± 3.00	K	NIST Webbook
tb	379.65 ± 1.00	K	NIST Webbook
tb	380.15 ± 1.00	K	NIST Webbook
tb	381.15 ± 0.50	K	NIST Webbook
tb	381.00 ± 1.50	K	NIST Webbook
tb	380.15 ± 1.00	K	NIST Webbook
tb	381.80 ± 0.50	K	NIST Webbook
tb	381.15 ± 0.50	K	NIST Webbook
tb	381.20 ± 0.40	K	NIST Webbook
tb	381.15 ± 0.50	K	NIST Webbook
tb	381.05 ± 0.50	K	NIST Webbook
tb	381.15 ± 0.50	K	NIST Webbook
tb	379.65 ± 1.00	K	NIST Webbook
tb	380.15 ± 2.00	K	NIST Webbook
tb	378.65 ± 2.00	K	NIST Webbook
tb	381.15 ± 1.00	K	NIST Webbook
tb	381.15 ± 2.00	K	NIST Webbook
tb	381.15 ± 1.00	K	NIST Webbook
tb	379.90 ± 0.70	K	NIST Webbook
tb	381.20 ± 0.38	K	NIST Webbook

tb	381.15 ± 1.00	K	NIST Webbook
tb	380.15 ± 1.00	K	NIST Webbook
tb	379.15 ± 2.00	K	NIST Webbook
tb	380.65 ± 1.00	K	NIST Webbook
tb	381.45	K	NIST Webbook
tb	379.15 ± 2.00	K	NIST Webbook
tb	380.90 ± 0.10	K	NIST Webbook
tb	381.03 ± 1.00	K	NIST Webbook
tb	381.15 ± 0.40	K	NIST Webbook
tb	381.05	K	NIST Webbook
tb	381.95 ± 0.30	K	NIST Webbook
tb	380.90 ± 0.10	K	NIST Webbook
tb	381.05 ± 0.20	K	NIST Webbook
tb	380.90 ± 0.30	K	NIST Webbook
tb	380.90 ± 0.30	K	NIST Webbook
tb	380.90 ± 0.40	K	NIST Webbook
tb	381.10 ± 0.40	K	NIST Webbook
tb	378.15 ± 5.00	K	NIST Webbook
tb	381.25 ± 0.30	K	NIST Webbook
tb	380.75 ± 0.50	K	NIST Webbook
tc	547.80 ± 0.30	K	NIST Webbook
tc	550.80	K	NIST Webbook
tc	549.85 ± 0.30	K	NIST Webbook
tc	547.77	K	NIST Webbook
tc	556.70	K	NIST Webbook
tc	547.74	K	NIST Webbook
tc	547.78 ± 1.00	K	NIST Webbook
tc	547.70	K	NIST Webbook
tc	548.60	K	NIST Webbook
tc	547.80	K	KDB
tc	538.20	K	NIST Webbook
tf	165.15	K	NIST Webbook
tf	165.15 ± 2.00	K	NIST Webbook
tf	165.00	K	KDB
tf	169.00 ± 2.00	K	NIST Webbook
tt	171.18 ± 0.02	K	NIST Webbook
tt	171.20 ± 0.01	K	NIST Webbook
tt	171.18	K	KDB
vc	0.274	m3/kmol	NIST Webbook
vc	0.274	m3/kmol	KDB
zc	0.2583780		KDB
zra	0.26		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	146.35	J/mol×K	425.01	NIST Webbook
cpg	184.92 ± 0.71	J/mol×K	582.95	NIST Webbook
cpg	176.39 ± 0.71	J/mol×K	546.35	NIST Webbook
cpg	171.62 ± 0.71	J/mol×K	525.85	NIST Webbook
cpg	165.96 ± 0.71	J/mol×K	501.55	NIST Webbook
cpg	160.41 ± 0.71	J/mol×K	477.75	NIST Webbook
cpg	158.94	J/mol×K	475.09	NIST Webbook
cpg	159.62 ± 0.71	J/mol×K	474.35	NIST Webbook
cpg	154.24 ± 0.71	J/mol×K	451.25	NIST Webbook
cpg	147.91 ± 0.71	J/mol×K	424.05	NIST Webbook
cpg	133.74	J/mol×K	379.99	NIST Webbook
cpg	134.34	J/mol×K	381.23	NIST Webbook
cpg	140.10 ± 0.71	J/mol×K	390.55	NIST Webbook
cpg	141.76 ± 0.71	J/mol×K	397.65	NIST Webbook
cpg	139.55	J/mol×K	400.03	NIST Webbook
cpg	143.92 ± 0.71	J/mol×K	406.95	NIST Webbook
cpg	146.25 ± 0.71	J/mol×K	416.95	NIST Webbook
cpg	152.05 ± 0.71	J/mol×K	441.85	NIST Webbook
cpg	152.97	J/mol×K	450.06	NIST Webbook
cpg	189.48 ± 0.71	J/mol×K	602.55	NIST Webbook
cpl	187.00	J/mol×K	303.00	NIST Webbook
cpl	184.10	J/mol×K	298.10	NIST Webbook
cpl	215.10	J/mol×K	333.00	NIST Webbook
cpl	201.30	J/mol×K	323.00	NIST Webbook
cpl	181.00	J/mol×K	298.15	NIST Webbook
cpl	185.40	J/mol×K	301.20	NIST Webbook
cpl	185.60	J/mol×K	303.15	NIST Webbook
cpl	182.01	J/mol×K	298.15	NIST Webbook
cpl	181.05	J/mol×K	298.15	NIST Webbook
cps	129.20	J/mol×K	180.00	NIST Webbook

dvisc	0.0021880	Pa×s	308.15	Volumetric, transport, and acoustic properties of binary mixtures of 2-methyl-1-propanol with hexadecane and squalane at T = (298.15, 303.15, and 308.15) K: Experimental results, correlation, and prediction by the ERAS model
dvisc	0.0011163	Pa×s	333.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0012675	Pa×s	328.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0024207	Pa×s	308.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K
dvisc	0.0014825	Pa×s	323.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K

dvisc	0.0033340	Pa×s	298.15	Viscosities and densities for binary mixtures of N-methylpiperazine with methanol, ethanol, n-propanol, iso-propanol, n-butanol and iso-butanol at 293.15, 298.15 and 303.15K
dvisc	0.0027940	Pa×s	303.15	Viscosities and densities for binary mixtures of N-methylpiperazine with methanol, ethanol, n-propanol, iso-propanol, n-butanol and iso-butanol at 293.15, 298.15 and 303.15K
dvisc	0.0034040	Pa×s	298.15	Volumetric, transport, and acoustic properties of binary mixtures of 2-methyl-1-propanol with hexadecane and squalane at T = (298.15, 303.15, and 308.15) K: Experimental results, correlation, and prediction by the ERAS model
dvisc	0.0026950	Pa×s	303.15	Volumetric, transport, and acoustic properties of binary mixtures of 2-methyl-1-propanol with hexadecane and squalane at T = (298.15, 303.15, and 308.15) K: Experimental results, correlation, and prediction by the ERAS model

dvisc	0.0008767	Pa×s	343.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0040855	Pa×s	293.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0034500	Pa×s	298.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0028767	Pa×s	303.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0023845	Pa×s	308.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory

dvisc	0.0020909	Pa×s	313.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0018503	Pa×s	318.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0015759	Pa×s	323.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0012967	Pa×s	328.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory

dvisc	0.0011243	Pa×s	333.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0009876	Pa×s	338.15	Measurement and modeling the excess molar properties of binary mixtures of {[C6mim][BF4] + 3-amino-1-propanol} and {[C6mim][BF4] + isobutanol}: Application of Prigogine-Flory-Patterson theory
dvisc	0.0040850	Pa×s	293.15	Experimental excess molar properties of binary mixtures of (3-amino-1-propanol + isobutanol, 2-propanol) at T = (293.15 to 333.15) K and modelling the excess molar volume by Prigogine-Flory-Patterson theory
dvisc	0.0028770	Pa×s	303.15	Experimental excess molar properties of binary mixtures of (3-amino-1-propanol + isobutanol, 2-propanol) at T = (293.15 to 333.15) K and modelling the excess molar volume by Prigogine-Flory-Patterson theory

dvisc	0.0020910	Pa×s	313.15	Experimental excess molar properties of binary mixtures of (3-amino-1-propanol + isobutanol, 2-propanol) at T = (293.15 to 333.15) K and modelling the excess molar volume by Prigogine-Flory-Patterson theory
dvisc	0.0015760	Pa×s	323.15	Experimental excess molar properties of binary mixtures of (3-amino-1-propanol + isobutanol, 2-propanol) at T = (293.15 to 333.15) K and modelling the excess molar volume by Prigogine-Flory-Patterson theory
dvisc	0.0011240	Pa×s	333.15	Experimental excess molar properties of binary mixtures of (3-amino-1-propanol + isobutanol, 2-propanol) at T = (293.15 to 333.15) K and modelling the excess molar volume by Prigogine-Flory-Patterson theory
dvisc	0.0048050	Pa×s	288.15	Densities and Viscosities of Binary Mixtures of 1-Chlorobutane with Butanol Isomers at Several Temperatures
dvisc	0.0034350	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of 1-Chlorobutane with Butanol Isomers at Several Temperatures

dvisc	0.0025080	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of 1-Chlorobutane with Butanol Isomers at Several Temperatures
dvisc	0.0018700	Pa×s	318.15	Densities and Viscosities of Binary Mixtures of 1-Chlorobutane with Butanol Isomers at Several Temperatures
dvisc	0.0048050	Pa×s	288.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0034350	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0025080	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0018700	Pa×s	318.15	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures
dvisc	0.0040366	Pa×s	293.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K

dvisc	0.0033297	Pa×s	298.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K
dvisc	0.0028752	Pa×s	303.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K
dvisc	0.0039940	Pa×s	293.15	Viscosities and densities for binary mixtures of N-methylpiperazine with methanol, ethanol, n-propanol, iso-propanol, n-butanol and iso-butanol at 293.15, 298.15 and 303.15K
dvisc	0.0019666	Pa×s	313.15	Densities and Viscosities of Binary Liquid Mixtures of 2-Butanone with Branched Alcohols at (293.15 to 313.15) K
dvisc	0.0039430	Pa×s	293.15	Densities, Viscosities, and Excess Molar Enthalpies of 2-Pyrrolidone + Butanol Isomers at T) (293.15, 298.15, and 303.15) K
dvisc	0.0033320	Pa×s	298.15	Densities, Viscosities, and Excess Molar Enthalpies of 2-Pyrrolidone + Butanol Isomers at T) (293.15, 298.15, and 303.15) K

dvisc	0.0028840	Pa×s	303.15	Densities, Viscosities, and Excess Molar Enthalpies of 2-Pyrrolidone + Butanol Isomers at T) (293.15, 298.15, and 303.15) K
dvisc	0.0026490	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0022798	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0019653	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0016921	Pa×s	318.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
dvisc	0.0009851	Pa×s	338.15	Densities and Viscosities of Binary Mixtures of n-Butanol with 2-Butanol, Isobutanol, and tert-Butanol from (303.15 to 343.15) K
hfust	6.32	kJ/mol	171.20	NIST Webbook
hfust	6.32	kJ/mol	171.20	NIST Webbook
hfust	6.32	kJ/mol	171.20	NIST Webbook
hfust	6.32	kJ/mol	171.18	NIST Webbook
hvapt	41.82	kJ/mol	381.10	NIST Webbook
hvapt	45.40	kJ/mol	375.00	NIST Webbook
hvapt	49.50	kJ/mol	362.00	NIST Webbook

hvapt	46.00	kJ/mol	452.50	NIST Webbook
hvapt	55.00	kJ/mol	222.50	NIST Webbook
hvapt	44.20	kJ/mol	379.00	NIST Webbook
hvapt	42.60	kJ/mol	399.50	NIST Webbook
hvapt	41.10	kJ/mol	447.00	NIST Webbook
hvapt	36.20	kJ/mol	515.50	NIST Webbook
hvapt	46.20	kJ/mol	365.50	NIST Webbook
hvapt	49.70 ± 0.10	kJ/mol	313.00	NIST Webbook
hvapt	48.30 ± 0.10	kJ/mol	328.00	NIST Webbook
hvapt	45.00 ± 0.10	kJ/mol	358.00	NIST Webbook
hvapt	48.10	kJ/mol	351.00	NIST Webbook
hvapt	52.60	kJ/mol	340.50	NIST Webbook
hvapt	46.20 ± 0.10	kJ/mol	347.00	NIST Webbook
hvapt	44.20 ± 0.10	kJ/mol	363.00	NIST Webbook
hvapt	41.90 ± 0.10	kJ/mol	381.00	NIST Webbook
hvapt	47.00	kJ/mol	357.00	NIST Webbook
hvapt	40.10	kJ/mol	485.50	NIST Webbook
hvapt	45.20	kJ/mol	370.50	NIST Webbook
hvapt	50.71	kJ/mol	106.90	NIST Webbook
kvisc	0.0000027	m2/s	313.15	Viscosities of Binary Mixtures of Isomeric Butanols or Isomeric Chlorobutanes with 2-Methyltetrahydrofuran
kvisc	0.0000042	m2/s	298.15	Viscosities of Binary Mixtures of Isomeric Butanols or Isomeric Chlorobutanes with 2-Methyltetrahydrofuran
pvap	40.00	kPa	357.45	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems
pvap	79.99	kPa	374.35	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems
pvap	66.66	kPa	369.67	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems

pvap	53.33	kPa	364.17	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems
pvap	93.32	kPa	378.45	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems
pvap	2505.00	kPa	513.15	Vapor-Liquid Equilibria for the n-Pentane + 1-Propanol and n-Pentane + 2-Methyl-1-propanol Systems near the Critical Region
pvap	1933.00	kPa	498.15	Vapor-Liquid Equilibria for the n-Pentane + 1-Propanol and n-Pentane + 2-Methyl-1-propanol Systems near the Critical Region
pvap	1506.00	kPa	483.15	Vapor-Liquid Equilibria for the n-Pentane + 1-Propanol and n-Pentane + 2-Methyl-1-propanol Systems near the Critical Region
pvap	1113.00	kPa	468.15	Vapor-Liquid Equilibria for the n-Pentane + 1-Propanol and n-Pentane + 2-Methyl-1-propanol Systems near the Critical Region
pvap	7.24	kPa	323.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol

pvap	5.44	kPa	318.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	4.03	kPa	313.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	2.96	kPa	308.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	2.13	kPa	303.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	1.50	kPa	298.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol

pvap	0.74	kPa	288.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	0.51	kPa	283.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	0.34	kPa	278.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	150.00	kPa	392.20	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	140.00	kPa	390.20	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	130.00	kPa	388.00	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa

pvap	120.00	kPa	385.80	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	110.00	kPa	383.30	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	100.00	kPa	380.70	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	90.00	kPa	377.80	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	1.06	kPa	293.15	Vapor Liquid Equilibrium between (278.15 and 323.15) K and Excess Functions at T = 298.15 K for 1-Bromobutane with 2-Methyl-1-propanol or 2-Butanol
pvap	70.00	kPa	371.30	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa

pvap	60.00	kPa	367.40	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	50.00	kPa	362.90	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	15.00	kPa	336.90	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	40.00	kPa	357.70	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	30.00	kPa	351.20	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	80.00	kPa	374.70	Complementary vapor pressure data for 2-methyl-1-propanol and 3-methyl-1-butanol at a pressure range of (15 to 177) kPa
pvap	98.66	kPa	379.96	Isobaric Vapor-Liquid Equilibria for Tetrahydropyran and Alcohol Systems

rfi	1.39380	298.15	Study of liquid liquid equilibrium of the systems isobutyl acetate + acetic acid +water and isobutyl alcohol + acetic acid +water at different temperatures
rfi	1.39380	298.15	Liquid liquid equilibria of the systems isobutyl acetate + isobutyl alcohol +water and isobutyl acetate + isobutyl alcohol + glycerol at different temperatures
rfi	1.39370	298.15	Isobaric vapor-liquid equilibria for the binary systems isobutyl alcohol + isobutyl acetate and tert-butyl alcohol + tert-butyl acetate at 20 and 101.3 kPa
rfi	1.39370	298.15	Phase equilibria in the systems isobutyl alcohol +N,N-dimethylformamide, isobutyl acetate +N,N-dimethylformamide and isobutyl alcohol + isobutyl acetate +N,N-dimethylformamide at 101.3 kPa
rfi	1.39370	298.15	Phase equilibria in the ternary system isobutyl alcohol + isobutyl acetate + 1-hexanol and the binary systems isobutyl alcohol + 1-hexanol, isobutyl acetate + 1-hexanol at 101.3 kPa

rfi	1.39380	298.15	Vapor liquid equilibria in the ternary system isobutyl alcohol + isobutyl acetate + butyl propionate and the binary systems isobutyl alcohol + butyl propionate, isobutyl acetate + butyl propionate at 101.3 kPa
rfi	1.39390	298.15	Activity coefficients of the binary mixtures of a-cresol or p-cresol with C 1-C4 aliphatic alcohols near ambient pressure
rfi	1.39390	298.15	Excess Gibbs energies of selected binary mixtures formed by N,N-dimethyl formamide at 95.5 kPa
rfi	1.39390	298.15	Excess volumes and excess enthalpies of N-methyl-2-pyrrolidone with branched alcohols
rfi	1.39563	293.15	Ternary Liquid Liquid Equilibrium Data for the Water + Acetonitrile + {Butan-1-ol or 2-Methylpropan-1-ol} Systems at (303.2, 323.2, 343.2) K and 1 atm
rfi	1.39540	293.15	Vapor Liquid Equilibrium Data for Binary Systems of n-Dodecane + {Propan-1-ol, Butan-1-ol, 2-Methylpropan-1-ol} at 40 kPa
rfi	1.39260	295.15	Isobaric Vapor Liquid Equilibrium Data for Binary Mixtures of 1-Phenylethanone with a Few Alcohols at 95.2 kPa

rfi	1.39290	293.15	Volumetric Properties of Highly Nonideal Binary Mixtures Containing Ethanoic Acid and Propanoic Acid with Butan-2-ol, Methyl-2-propanol, and 2-Methyl-2-butanol at Different Temperatures
rfi	1.39370	298.15	Density, Refractive Index, and Speed of Sound at 298.15 K and Vapor-Liquid Equilibria at 101.3 kPa for Binary Mixtures of Ethyl Acetate + 1-Pentanol and Ethanol + 2-Methyl-1-propanol
rfi	1.39390	298.15	Bubble-Temperature Measurements on Some Binary Mixtures Formed by Tetrahydrofuran or Amyl Alcohol with Hydrocarbons, Chlorohydrocarbons, or Butanols at (94.6 or 95.8) kPa
rfi	1.38390	298.15	Bubble Temperatures of the Binary Mixtures of Dimethylcarbonate with Some Alcohols at 95.8 kPa
rfi	1.39570	293.15	Solid-Liquid Equilibrium Measurements for Posaconazole and Voriconazole in Several Solvents between T = 278.2 and 323.2 K Using Differential Thermal Analysis/Thermal Gravimetric Analysis

rfi	1.39580	293.15	Isothermal Vapor-Liquid Equilibrium Measurements for Alcohol + Water/n-Hexane Azeotropic Systems Using Both Dynamic and Automated Static-Synthetic Methods
rfi	1.39570	293.15	Isothermal Vapor-Liquid Equilibrium Measurements of Butan-2-one + 2-Methyl-propan-1-ol/Pentan-1-ol
rfi	1.39590	293.15	Isothermal Vapor-Liquid Equilibrium for the 2-Pentanone (MPK) + 2-Methyl Propan-1-ol Binary Mixture
rfi	1.39620	293.15	Excess Properties and Phase Equilibria for the Potential Biofuel System of Propan-2-ol and 2-Methyl-propan-1-ol at 333.15, 343.15, and 353.15 K
rfi	1.39390	298.15	Isobaric (vapour + liquid) equilibrium for N-methyl-2-pyrrolidone with branched alcohols
rfi	1.39390	298.15	Excess Gibbs free energies of the binary mixtures of acetonitrile with butanols at 94.83 kPa
rfi	1.39390	298.15	(Vapor + liquid) equilibria of the binary mixtures of m-cresol with C1 C4 aliphatic alcohols at 95.5 kPa

rfi	1.38960	308.15	Physico-chemical and excess properties of the binary mixtures of methylcyclohexane + ethanol, + propan-1-ol, + propan-2-ol, + butan-1-ol, + 2-methyl-1-propanol, or 3-methyl-1-butanol at T = (298.15, 303.15, and 308.15) K
rfi	1.39170	303.15	Physico-chemical and excess properties of the binary mixtures of methylcyclohexane + ethanol, + propan-1-ol, + propan-2-ol, + butan-1-ol, + 2-methyl-1-propanol, or 3-methyl-1-butanol at T = (298.15, 303.15, and 308.15) K
rfi	1.39320	298.15	Physico-chemical and excess properties of the binary mixtures of methylcyclohexane + ethanol, + propan-1-ol, + propan-2-ol, + butan-1-ol, + 2-methyl-1-propanol, or 3-methyl-1-butanol at T = (298.15, 303.15, and 308.15) K
rfi	1.39550	293.15	Liquid-liquid equilibrium for the ternary system water + 2-methyl-1-propanol + butyl acetate and water + 2-methyl-2-propanol + butyl acetate at (298.15 and 323.15) K

rfi	1.39550		293.15	Liquid Liquid Equilibrium for the Ternary System 2-Methyl-1-propanol + 3-Methyl-1-butanol + Water at (298.15, 323.15, and 348.15) K
rfi	1.39580		293.15	Vapour-liquid equilibrium of carboxylic acid alcohol binary systems:2-Propanol + butyric acid, 2-butanol + butyric acid and 2-methyl-1-propanol + butyric acid
rfi	1.39380		298.15	Volumetric behavior of carbon dioxide + 2-methyl-1-propanol and carbondioxide + 2-methyl-2-propanol mixtures at 313.15 K
rhoI	797.84	kg/m3	298.15	Volumetric properties for binary and ternary systems consist of 1-chlorobutane, n-butylamine and isobutanol at 298.15 K with application of the Prigogine-Flory-Patterson theory and ERAS-Model
rhoI	795.35	kg/m3	298.15	Vapor Liquid Equilibrium of Mixtures Containing the Following Higher Alcohols: 2-Propanol, 2-Methyl-1-propanol, and 3-Methyl-1-butanol
rhoI	805.88	kg/m3	288.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols
rhoI	802.03	kg/m3	293.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols

rhoI	798.16	kg/m3	298.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols	
rhoI	794.25	kg/m3	303.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols	
rhoI	790.31	kg/m3	308.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols	
rhoI	786.31	kg/m3	313.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols	
rhoI	782.26	kg/m3	318.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols	
rhoI	802.00	kg/m3	293.00	KDB	
rhoI	801.48	kg/m3	293.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K	
rhoI	797.54	kg/m3	298.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K	

rhoI	793.60	kg/m3	303.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K
rhoI	789.66	kg/m3	308.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K
rhoI	785.72	kg/m3	313.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K
rhoI	781.78	kg/m3	318.15	Densities and Volumetric Properties of Binary Mixtures of Aniline with 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol, and 2-Methyl-2-Propanol at Temperatures from 293.15 to 318.15 K
rhoI	806.12	kg/m3	288.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa

rhoI	798.41	kg/m3	298.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa
rhoI	786.51	kg/m3	313.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa
rhoI	774.11	kg/m3	328.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa
rhoI	765.45	kg/m3	338.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa

rhoI	756.43	kg/m3	348.15	Excess molar enthalpies of diethyl malonate+ (1-butanol, 2-methyl-1-propanol, 1-pentanol, n-heptane, and ethyl acetate) at T= (288.2, 298.2, 313.2, 328.2, 338.2, and 348.2 K) and p = 101.3 kPa
rhoI	801.70	kg/m3	293.15	Measurement and correlation of liquid liquid equilibrium data for 2-methyl-1-propanol + 2-propanol + water at several temperatures
rhoI	797.98	kg/m3	298.15	(Vapour + liquid) equilibrium of binary mixtures (1,3-dioxolane or 1,4-dioxane + 2-methyl-1-propanol or 2-methyl-2-propanol) at isobaric conditions
rhoI	797.80	kg/m3	298.15	Bubble point temperatures of the binary mixtures of nitrobenzene with C1 C4 aliphatic alcohols at 94.95 kPa
rhoI	801.80	kg/m3	293.15	Measurement and correlation of isobaric vapour-liquid equilibria for binary systems of 1-(methoxymethoxy)-2-methyl-propane with 1-butanol and isobutanol at 101.33 kPa
rhoI	801.85	kg/m3	293.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa

rhoI	797.99	kg/m3	298.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	794.03	kg/m3	303.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	790.09	kg/m3	308.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	786.12	kg/m3	313.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	781.97	kg/m3	318.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	777.86	kg/m3	323.15	Volumetric properties of monoethanolamine and alcohol binary mixtures at different temperatures and 0.1 MPa
rhoI	778.14	kg/m3	323.15	Volumetric and Viscometric Study of Binary Systems of Ethyl Butyrate with Alcohols
rhoI	797.82	kg/m3	298.15	Experimental and theoretical excess molar properties of imidazolium based ionic liquids with isomers of butanol

rhoI	790.63	kg/m3	308.15	Experimental and theoretical excess molar properties of imidazolium based ionic liquids with isomers of butanol
rhoI	781.98	kg/m3	318.15	Experimental and theoretical excess molar properties of imidazolium based ionic liquids with isomers of butanol
rhoI	801.98	kg/m3	293.15	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine Flory Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols
rhoI	798.10	kg/m3	298.15	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine Flory Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols
rhoI	794.20	kg/m3	303.15	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine Flory Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols
rhoI	790.25	kg/m3	308.15	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine Flory Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols

rhoI	786.24	kg/m3	313.15	Density, Speed of Sound, Viscosity, Excess Properties, and Prigogine Flory Patterson (PFP) Theory of Binary Mixtures of Amine and Alcohols
rhoI	797.83	kg/m3	298.15	Proposal for a Viscous Test Mixture Densities, Viscosities, and Vapor Liquid Equilibrium Data of the Binary Mixture 2-Methyl-2-butanol + 2-Methyl-1-propanol
rhoI	801.96	kg/m3	293.15	Experimental and Computational Studies of Binary Mixtures of Isobutanol + Cyclohexylamine
rhoI	798.12	kg/m3	298.15	Experimental and Computational Studies of Binary Mixtures of Isobutanol + Cyclohexylamine
rhoI	794.22	kg/m3	303.15	Experimental and Computational Studies of Binary Mixtures of Isobutanol + Cyclohexylamine
rhoI	790.27	kg/m3	308.15	Experimental and Computational Studies of Binary Mixtures of Isobutanol + Cyclohexylamine
rhoI	786.27	kg/m3	313.15	Experimental and Computational Studies of Binary Mixtures of Isobutanol + Cyclohexylamine

rhoI	801.80	kg/m3	293.15	Measurement and Correlation of Isobaric Vapor Liquid Equilibrium for Binary Systems of 1-(Ethoxymethoxy)-2-methyl-propane with Isobutyl Alcohol or 1-Butanol at 101.33 kPa
rhoI	801.98	kg/m3	293.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	798.13	kg/m3	298.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	794.24	kg/m3	303.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	790.29	kg/m3	308.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa

rhoI	786.30	kg/m3	313.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	782.24	kg/m3	318.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	778.12	kg/m3	323.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	773.92	kg/m3	328.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa
rhoI	769.65	kg/m3	333.15	Densities and Viscosities for Binary Liquid Mixtures of Biodiesel + 1-Butanol, + Isobutyl Alcohol, or + 2-Butanol from 293.15 to 333.15 K at 0.1 MPa

rhoI	798.32	kg/m3	298.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	794.43	kg/m3	303.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	790.49	kg/m3	308.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	786.48	kg/m3	313.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa

rhoI	782.42	kg/m3	318.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	778.30	kg/m3	323.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	774.09	kg/m3	328.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa
rhoI	769.81	kg/m3	333.15	Densities and Viscosities for Binary Liquid Mixtures of Butan-1-ol + Propane-1,2-diol, + Butane-1,2-diol and 2-Methylpropan-1-ol + Propane-1,2-diol, + Butane-1,2-diol from 298.15 to 333.15 K at 0.1 MPa

rhoI	801.65	kg/m3	298.15	Liquid-Liquid Equilibrium for Ternary Systems, Water + 5-Hydroxymethylfurfural + (1-Butanol, Isobutanol, Methyl Isobutyl Ketone), at 313.15, 323.15, and 333.15 K
rhoI	797.83	kg/m3	298.15	Excess Molar Volumes and Surface Tensions of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene with 1-Butanol, 2-Methyl-1-propanol, 2-Butanol, and 2-Methyl-2-propanol at 298.15 K
rhoI	805.60	kg/m3	288.15	Excess Molar Volumes of 1,3-Diethyl Propanedioate with Methanol, Ethanol, Propan-1-ol, Propan-2-ol, Butan-2-ol, 2-Methyl-propan-1-ol, and Pentan-1-ol at T = (288.15, 298.15, 313.15, and 328.15) K
rhoI	797.92	kg/m3	298.15	Excess Molar Volumes of 1,3-Diethyl Propanedioate with Methanol, Ethanol, Propan-1-ol, Propan-2-ol, Butan-2-ol, 2-Methyl-propan-1-ol, and Pentan-1-ol at T = (288.15, 298.15, 313.15, and 328.15) K
rhoI	786.07	kg/m3	313.15	Excess Molar Volumes of 1,3-Diethyl Propanedioate with Methanol, Ethanol, Propan-1-ol, Propan-2-ol, Butan-2-ol, 2-Methyl-propan-1-ol, and Pentan-1-ol at T = (288.15, 298.15, 313.15, and 328.15) K

rhoI	773.69	kg/m3	328.15	Excess Molar Volumes of 1,3-Diethyl Propanedioate with Methanol, Ethanol, Propan-1-ol, Propan-2-ol, Butan-2-ol, 2-Methyl-propan-1-ol, and Pentan-1-ol at T = (288.15, 298.15, 313.15, and 328.15) K
rhoI	797.77	kg/m3	298.15	Surface Tensions of the Ternary Mixtures Containing an Isomeric Butanol + n-Hexane + 1-Chlorobutane at 298.15 K
rhoI	798.10	kg/m3	298.15	Densities, Viscosities, and Speeds of Sound of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K
rhoI	801.82	kg/m3	293.15	Density and Viscosity Measurements of Binary Alkanol Mixtures from (293.15 to 333.15) K at Atmospheric Pressure
rhoI	794.06	kg/m3	303.15	Density and Viscosity Measurements of Binary Alkanol Mixtures from (293.15 to 333.15) K at Atmospheric Pressure
rhoI	786.12	kg/m3	313.15	Density and Viscosity Measurements of Binary Alkanol Mixtures from (293.15 to 333.15) K at Atmospheric Pressure

rhoI	777.94	kg/m3	323.15	Density and Viscosity Measurements of Binary Alkanol Mixtures from (293.15 to 333.15) K at Atmospheric Pressure
rhoI	769.46	kg/m3	333.15	Density and Viscosity Measurements of Binary Alkanol Mixtures from (293.15 to 333.15) K at Atmospheric Pressure
rhoI	790.12	kg/m3	308.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	786.12	kg/m3	313.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	782.06	kg/m3	318.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	777.93	kg/m3	323.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K

rhoI	773.73	kg/m3	328.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	769.44	kg/m3	333.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	765.07	kg/m3	338.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	760.61	kg/m3	343.15	Densities and Viscosities of Binary Mixtures of 2-Butanol + Isobutanol, 2-Butanol + tert-Butanol, and Isobutanol + tert-Butanol from (308.15 to 343.15) K
rhoI	797.77	kg/m3	298.15	Densities and Viscosities of the Ternary Mixtures 2-Methyl-1-propanol (or 2-Methyl-2-propanol) + N-Hexane + 1-Chlorobutane at 298.15 K
sfust	36.93	J/mol×K	171.18	NIST Webbook
speedsl	1204.10	m/s	293.15	Acoustic and Thermophysical Properties of Binary Liquid Mixtures of Primary Butanols with Hexane and Cyclohexane at 293.15 K

speedsl	1108.20	m/s	323.15	Excess Enthalpy, Density, and Speed of Sound for the Mixtures α -Pinene + 2-Methyl-1-propanol or 2-Methyl-2-propanol at Several Temperatures
speedsl	1138.00	m/s	313.15	Excess Enthalpy, Density, and Speed of Sound for the Mixtures α -Pinene + 2-Methyl-1-propanol or 2-Methyl-2-propanol at Several Temperatures
speedsl	1174.30	m/s	303.15	Excess Enthalpy, Density, and Speed of Sound for the Mixtures α -Pinene + 2-Methyl-1-propanol or 2-Methyl-2-propanol at Several Temperatures
speedsl	1188.00	m/s	298.15	Excess Enthalpy, Density, and Speed of Sound for the Mixtures α -Pinene + 2-Methyl-1-propanol or 2-Methyl-2-propanol at Several Temperatures
speedsl	1238.70	m/s	283.15	Excess Enthalpy, Density, and Speed of Sound for the Mixtures α -Pinene + 2-Methyl-1-propanol or 2-Methyl-2-propanol at Several Temperatures
speedsl	1138.40	m/s	313.15	Densities and speeds of sound for binary mixtures of (1,3-dioxolane or 1,4-dioxane) with (2-methyl-1-propanol or 2-methyl-2-propanol) at the temperatures 298.15 K and 313.15 K

speeds	1188.50	m/s	298.15	Densities and speeds of sound for binary mixtures of (1,3-dioxolane or 1,4-dioxane) with (2-methyl-1-propanol or 2-methyl-2-propanol) at the temperatures 298.15 K and 313.15 K
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Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.44742e+01
Coeff. B	-2.68120e+03
Coeff. C	-1.08758e+02
Temperature range (K), min.	297.75
Temperature range (K), max.	401.38

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.14566e+02
Coeff. B	-1.41062e+04
Coeff. C	-2.96193e+01
Coeff. D	2.12663e-05
Temperature range (K), min.	165.15
Temperature range (K), max.	547.73

Datasets

Mass density, kg/m³

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.15	89.40	809.726
283.16	289.90	810.056
283.15	478.20	810.123
283.15	489.90	810.142
283.15	930.20	810.437
283.15	1027.30	810.557
283.15	2172.10	811.348
283.15	2992.90	811.865
283.15	4993.80	813.245
283.15	6906.90	814.669
283.15	8995.70	816.167
283.15	10003.00	816.885
283.15	12183.00	818.287
283.15	14910.00	820.439
283.15	17915.00	822.056
283.15	20110.00	823.875
283.15	22168.00	825.177
283.15	24886.00	826.625
283.15	27713.00	828.29
283.15	30148.00	829.717
283.15	32117.00	830.745
283.15	33086.00	831.522
283.15	33288.00	831.507
283.15	34077.00	832.073
283.15	35107.00	832.469
283.15	38030.00	834.322
283.16	39967.00	835.34
283.16	41406.00	835.909
283.15	44591.00	837.752
283.16	48034.00	839.7
283.16	49830.00	840.462
283.16	51952.00	841.796
283.15	54994.00	843.308
283.15	57756.00	844.723
283.15	59886.00	845.575
283.15	61822.00	846.524
283.15	64894.00	848.158
283.16	66072.00	848.566
288.15	85.30	806.159
288.15	351.10	806.381
288.16	549.30	806.494
288.15	718.60	806.519
288.15	928.30	806.632

288.15	1132.30	807.006
288.15	1931.60	807.42
288.15	3433.90	808.429
288.15	5023.90	809.62
288.15	6893.90	810.983
288.15	8406.40	812.175
288.16	9959.10	813.184
288.15	12498.00	814.345
288.15	13061.00	815.035
288.15	15159.00	815.414
288.15	16159.00	816.818
288.15	17078.00	817.715
288.15	19062.00	818.283
288.15	20120.00	819.399
288.15	21983.00	820.3
288.15	22948.00	821.319
288.15	24955.00	821.837
288.16	27092.00	823.174
288.16	29078.00	824.509
288.15	31002.00	825.774
288.16	33729.00	826.936
288.15	36056.00	828.477
288.15	38602.00	829.859
288.15	40698.00	831.363
288.15	42984.00	832.313
288.15	44991.00	833.694
288.15	46862.00	834.848
288.15	49740.00	835.692
288.15	53748.00	837.321
288.15	55203.00	839.369
288.16	57016.00	840.129
288.15	60810.00	841.135
288.16	62338.00	843.086
288.15	65611.00	844.144
293.15	63.40	802.054
293.15	194.50	802.316
293.16	310.40	802.406
293.16	463.50	802.612
293.15	662.60	802.599
293.16	1059.70	802.921
293.16	2037.10	803.747
293.16	2922.00	804.089
293.16	3431.50	804.593
293.16	5298.80	805.894

293.15	5367.80	806.019
293.15	5979.30	806.327
293.16	7111.40	807.238
293.15	8031.40	807.842
293.16	9968.50	809.474
293.15	12279.00	811.587
293.16	14057.00	812.743
293.15	16110.00	814.191
293.15	18001.00	815.385
293.16	20853.00	817.066
293.16	22118.00	818.157
293.16	24057.00	819.188
293.16	25922.00	820.412
293.16	27187.00	821.228
293.15	30253.00	822.999
293.15	32967.00	824.811
293.16	34602.00	825.683
293.16	38051.00	827.567
293.16	40103.00	828.763
293.15	42984.00	830.218
293.15	44913.00	831.278
293.15	47933.00	833.008
293.15	50078.00	834.047
293.16	52135.00	835.387
293.16	55036.00	836.79
293.16	58004.00	838.271
293.16	60107.00	839.502
293.16	62061.00	840.325
293.16	66037.00	842.335
298.15	122.40	798.281
298.15	162.60	798.371
298.15	405.50	798.562
298.15	632.80	798.678
298.15	956.40	798.832
298.16	1152.20	799.011
298.16	2046.30	799.798
298.16	3021.10	800.42
298.16	5107.40	801.927
298.15	6988.80	803.491
298.16	9044.30	804.777
298.16	9996.80	805.681
298.16	11947.00	807.14
298.15	14555.00	809.311
298.15	18284.00	812.068

298.15	20164.00	813.104
298.15	22781.00	814.894
298.15	25076.00	816.275
298.15	27604.00	817.904
298.15	30046.00	819.519
298.15	32326.00	821.055
298.16	33072.00	821.357
298.15	33317.00	821.248
298.16	34997.00	822.338
298.16	37948.00	823.936
298.16	39972.00	825.207
298.16	41983.00	826.345
298.15	44911.00	827.946
298.16	48045.00	829.528
298.16	49997.00	830.783
298.16	52020.00	832.399
298.16	54851.00	833.381
298.16	57898.00	835.245
298.15	60006.00	836.063
298.15	62079.00	837.121
298.15	65330.00	838.566
298.15	66093.00	839.052
303.15	50.60	793.736
303.16	270.10	793.901
303.16	464.40	794.084
303.16	779.60	794.287
303.15	974.40	794.496
303.15	1922.50	795.367
303.16	2945.00	796.031
303.16	4911.20	797.923
303.16	7058.60	799.569
303.15	9012.30	801.25
303.15	10062.00	802.346
303.16	12047.00	803.47
303.15	14908.00	805.823
303.15	18109.00	808.133
303.15	20042.00	809.402
303.16	22055.00	811.092
303.15	25084.00	812.578
303.16	28094.00	815.049
303.15	30167.00	816.191
303.15	32070.00	817.319
303.15	33147.00	817.694
303.16	32939.00	817.604

303.16	34037.00	818.139
303.15	35162.00	818.815
303.15	38019.00	820.574
303.15	39970.00	821.716
303.15	42004.00	823.024
303.15	45033.00	824.95
303.16	48317.00	826.769
303.15	49864.00	827.592
303.15	52115.00	829.036
303.15	55239.00	830.776
303.15	58089.00	832.479
303.15	60079.00	833.282
303.15	62294.00	834.706
303.15	65137.00	835.715
303.16	66124.00	836.43
308.15	96.70	791.579
308.15	250.60	791.714
308.15	562.20	791.995
308.16	770.20	792.158
308.15	991.90	792.349
308.16	2101.20	793.3
308.16	3195.10	794.224
308.15	5219.30	795.881
308.16	7083.00	797.398
308.16	9108.00	799.011
308.15	10282.00	799.926
308.16	12379.00	801.538
308.15	15083.00	803.575
308.16	18161.00	805.827
308.16	20006.00	807.165
308.16	22192.00	808.686
308.16	25100.00	810.705
308.16	27887.00	812.568
308.16	30041.00	813.99
308.16	31933.00	815.242
308.16	33077.00	815.959
308.15	32866.00	815.75
308.16	34026.00	816.482
308.15	35203.00	817.171
308.16	35193.00	817.245
308.16	38088.00	818.995
308.16	40106.00	820.225
308.16	42282.00	821.541
308.16	45145.00	823.251

308.15	48031.00	824.96
308.16	50089.00	826.126
308.16	52047.00	827.233
308.15	55094.00	828.952
308.16	58085.00	830.585
308.15	60161.00	831.729
308.15	62192.00	832.798
308.16	65217.00	834.405
308.15	66004.00	834.804
313.15	82.90	787.4
313.15	316.80	787.607
313.15	491.80	787.767
313.15	890.90	788.108
313.15	981.50	788.182
313.15	1939.60	789.038
313.15	2951.00	789.905
313.15	4889.10	791.537
313.15	6856.50	793.195
313.15	8886.90	794.841
313.15	10029.00	795.77
313.15	11886.00	797.214
313.15	14927.00	799.577
313.15	17845.00	801.775
313.15	20040.00	803.389
313.15	21942.00	804.76
313.15	24894.00	806.85
313.15	28132.00	809.095
313.15	29974.00	810.333
313.15	32058.00	811.716
313.16	33053.00	812.371
313.16	33131.00	812.356
313.16	34040.00	812.94
313.15	35162.00	813.664
313.15	37952.00	815.444
313.15	40011.00	816.732
313.15	41939.00	817.878
313.15	45098.00	819.95
313.15	47966.00	821.512
313.15	49918.00	822.65
313.15	52024.00	823.857
313.15	54951.00	825.557
313.15	58062.00	827.336
313.15	60202.00	828.515
313.16	62187.00	829.599

313.15	65050.00	831.15
313.15	66082.00	831.7
318.16	128.50	783.253
318.15	368.30	783.457
318.15	589.40	783.667
318.16	858.20	783.902
318.16	1069.50	784.105
318.16	1979.10	784.923
318.16	2997.40	785.79
318.16	4942.60	787.513
318.16	6987.20	789.27
318.16	8967.50	790.929
318.15	9887.60	791.657
318.16	11870.00	793.265
318.16	14863.00	795.639
318.16	17735.00	797.848
318.16	19860.00	799.438
318.16	21987.00	801.004
318.16	25193.00	803.357
318.16	27823.00	805.216
318.16	30119.00	806.799
318.16	32145.00	808.205
318.15	33128.00	808.894
318.15	33065.00	808.852
318.16	34164.00	809.488
318.15	35190.00	810.134
318.16	38074.00	812.009
318.16	40048.00	813.265
318.16	41997.00	814.496
318.16	45096.00	816.426
318.15	48088.00	818.249
318.16	50173.00	819.491
318.15	52184.00	820.67
318.16	55235.00	822.46
318.16	58075.00	824.084
318.15	60194.00	825.273
318.15	62260.00	826.409
318.15	65194.00	828.017
318.15	66060.00	828.484
323.15	62.10	778.89
323.15	338.00	779.159
323.15	557.50	779.374
323.15	917.30	779.697
323.16	1117.80	779.897

323.15	2125.40	780.833
323.15	3154.80	781.778
323.15	5126.40	783.557
323.15	7366.80	785.517
323.15	9081.60	787.01
323.15	10156.00	787.907
323.15	12167.00	789.544
323.15	15030.00	791.876
323.15	18076.00	794.274
323.15	19932.00	795.694
323.15	22079.00	797.333
323.15	25085.00	799.541
323.15	28006.00	801.644
323.15	30029.00	803.084
323.15	31969.00	804.431
323.15	32903.00	805.081
323.15	33102.00	805.154
323.15	33950.00	805.707
323.15	34958.00	806.425
323.15	37883.00	808.369
323.15	39891.00	809.68
323.15	42065.00	811.076
323.15	44846.00	812.852
323.16	47886.00	814.721
323.15	49935.00	815.968
323.15	52064.00	817.249
323.15	54897.00	818.944
323.15	57818.00	820.634
323.15	59855.00	821.787
323.15	61856.00	822.928
323.15	64838.00	824.6
323.15	65957.00	825.209
328.15	96.50	774.907
328.15	395.80	775.157
328.16	515.00	775.262
328.15	904.10	775.603
328.15	1030.60	775.74
328.16	2069.70	776.794
328.15	2999.30	777.646
328.15	5042.00	779.515
328.16	6936.70	781.257
328.16	8874.20	782.985
328.15	10121.00	784.077
328.15	11905.00	785.621

328.16	14954.00	788.149
328.16	17891.00	790.513
328.16	20040.00	792.21
328.16	22054.00	793.773
328.15	24953.00	795.929
328.15	27874.00	798.098
328.15	29949.00	799.588
328.15	31948.00	800.996
328.16	33018.00	801.745
328.15	33061.00	801.681
328.15	34111.00	802.415
328.15	34984.00	803.007
328.15	37913.00	805.001
328.16	39966.00	806.346
328.15	41958.00	807.674
328.15	44806.00	809.5
328.16	47820.00	811.414
328.16	49817.00	812.637
328.16	52099.00	814.145
328.15	55150.00	815.995
328.15	58100.00	817.75
328.15	60045.00	818.881
328.15	62082.00	820.048
328.16	64955.00	821.692
328.15	66095.00	822.334
333.15	95.70	770.629
333.16	295.90	770.818
333.16	574.50	771.11
333.15	913.60	771.467
333.16	1069.50	771.621
333.16	2110.60	772.649
333.16	3100.00	773.622
333.16	5034.00	775.464
333.15	6965.60	777.259
333.15	8937.30	779.076
333.15	9995.10	780.005
333.15	11970.00	781.72
333.15	14915.00	784.255
333.16	17954.00	786.777
333.16	19985.00	788.397
333.15	22033.00	790.027
333.16	24923.00	792.261
333.16	27922.00	794.514
333.15	29996.00	796.045

333.15	31986.00	797.49
333.15	32928.00	798.124
333.16	33031.00	798.137
333.16	34001.00	798.837
333.16	35030.00	799.567
333.16	37925.00	801.558
333.16	39862.00	802.861
333.15	41792.00	804.162
333.16	44782.00	806.126
333.15	47830.00	808.087
333.15	49895.00	809.38
333.15	51876.00	810.61
333.15	54830.00	812.44
333.15	58116.00	814.429
333.15	59975.00	815.509
333.15	61974.00	816.676
333.15	65057.00	818.467
333.15	66042.00	819.039
338.15	72.50	765.803
338.15	267.10	766.009
338.15	496.50	766.255
338.15	821.30	766.6
338.15	1007.70	766.796
338.15	2012.40	767.824
338.15	3039.10	768.845
338.16	5091.10	770.879
338.15	7018.50	772.739
338.15	8987.60	774.596
338.15	10054.00	775.578
338.16	12131.00	777.462
338.16	15171.00	780.113
338.15	18105.00	782.627
338.16	20167.00	784.349
338.15	22120.00	785.947
338.16	25290.00	788.465
338.15	28029.00	790.565
338.16	30041.00	792.069
338.15	32010.00	793.527
338.15	32776.00	794.103
338.15	32995.00	794.184
338.15	33922.00	794.869
338.16	35102.00	795.7
338.15	38056.00	797.798
338.16	39987.00	799.156

338.15	42127.00	800.629
338.16	45109.00	802.623
338.15	48090.00	804.572
338.15	50121.00	805.906
338.15	52094.00	807.168
338.15	55116.00	809.055
338.15	58010.00	810.837
338.15	60191.00	812.149
338.15	62244.00	813.373
338.15	65243.00	815.143
338.15	65986.00	815.583
338.15	66355.00	815.805
343.15	55.60	761.239
343.15	101.80	761.279
343.15	277.30	761.484
343.15	487.70	761.699
343.15	881.60	762.13
343.15	1037.00	762.294
343.15	1941.40	763.263
343.15	3000.30	764.362
343.15	4957.00	766.378
343.15	6956.10	768.377
343.15	8969.50	770.304
343.15	10003.00	771.264
343.15	11997.00	773.149
343.15	14895.00	775.758
343.15	17840.00	778.358
343.15	20135.00	780.417
343.15	21925.00	781.908
343.15	24920.00	784.349
343.15	27949.00	786.755
343.15	29863.00	788.238
343.15	31874.00	789.777
343.15	32981.00	790.602
343.15	32927.00	790.544
343.15	34026.00	791.305
343.15	35028.00	792.011
343.15	38080.00	794.257
343.15	39908.00	795.53
343.15	41973.00	796.98
343.15	44972.00	799.034
343.15	47997.00	801.072
343.15	50016.00	802.401
343.15	52079.00	803.724

343.15	54997.00	805.581
343.15	57987.00	807.46
343.16	60015.00	808.691
343.15	62074.00	809.959
343.15	65051.00	811.734
343.15	66170.00	812.401
348.15	94.00	756.672
348.15	293.80	756.914
348.15	481.90	757.128
348.15	763.50	757.435
348.15	1011.00	757.701
348.15	1981.10	758.826
348.15	3073.20	759.88
348.15	5089.90	762.131
348.15	7034.60	764.092
348.15	9052.50	766.106
348.15	9991.30	767.026
348.16	12060.00	769.03
348.15	15042.00	771.822
348.15	17922.00	774.408
348.15	19893.00	776.137
348.15	22033.00	777.985
348.15	22381.00	778.265
348.16	25066.00	780.513
348.15	28023.00	782.927
348.15	29922.00	784.471
348.16	32007.00	786.046
348.16	32760.00	786.619
348.16	32941.00	786.66
348.15	33999.00	787.493
348.15	34980.00	788.228
348.15	37995.00	790.467
348.15	40072.00	791.973
348.15	41992.00	793.388
348.15	45082.00	795.525
348.15	48031.00	797.589
348.16	50014.00	798.878
348.15	52067.00	800.261
348.15	55099.00	802.242
348.16	58146.00	804.186
348.15	60084.00	805.42
348.15	62302.00	806.758
348.15	65219.00	808.569
348.15	66250.00	809.201

353.15	98.10	752.221
353.15	305.80	752.433
353.15	384.00	752.511
353.15	558.50	752.696
353.15	929.40	753.125
353.15	1073.70	753.289
353.15	2082.70	754.432
353.15	3025.90	755.465
353.15	5017.90	757.656
353.15	6957.80	759.69
353.15	8976.60	761.781
353.15	9990.30	762.812
353.15	11934.00	764.803
353.15	14917.00	767.603
353.15	18020.00	770.471
353.15	19983.00	772.259
353.15	22060.00	773.965
353.15	24899.00	776.429
353.15	27951.00	778.961
353.15	29947.00	780.584
353.15	31942.00	782.185
353.15	32982.00	782.978
353.15	33037.00	783.002
353.15	33907.00	783.604
353.15	35053.00	784.493
353.15	37939.00	786.664
353.15	39830.00	788.076
353.15	41863.00	789.556
353.15	44753.00	791.642
353.15	47880.00	793.816
353.15	49780.00	795.14
353.15	51876.00	796.535
353.15	55023.00	798.765
353.15	55678.00	799.178
353.15	57869.00	800.594
353.15	59971.00	801.962
353.15	62015.00	803.245
353.15	64989.00	805.09
353.15	66151.00	805.82
358.15	91.60	747.694
358.15	304.90	747.895
358.15	517.30	748.147
358.15	850.10	748.568
358.15	1095.50	748.835

358.15	2101.60	750.029
358.15	3210.60	751.303
358.15	5324.20	753.465
358.15	7190.10	755.483
358.15	9074.30	757.505
358.15	10165.00	758.644
358.15	12208.00	760.738
358.15	13986.00	762.552
358.15	15000.00	763.577
358.15	17866.00	766.293
358.15	20104.00	768.379
358.16	22005.00	770.073
358.16	25079.00	772.781
358.15	27962.00	775.177
358.15	30131.00	776.699
358.15	32076.00	778.299
358.15	33039.00	779.08
358.15	32938.00	778.904
358.15	33914.00	779.672
358.15	34978.00	780.53
358.15	37986.00	782.876
358.15	39996.00	784.402
358.15	42079.00	785.976
358.15	45119.00	788.207
358.15	48100.00	790.343
358.15	49987.00	791.672
358.15	52101.00	793.112
358.15	54983.00	795.084
358.15	58017.00	797.106
358.15	60055.00	798.438
358.15	62083.00	799.766
358.15	65016.00	801.626
358.15	66339.00	802.467
363.15	53.20	742.307
363.15	125.50	742.405
363.15	320.30	742.647
363.15	562.50	742.935
363.15	892.50	743.339
363.15	1001.30	743.446
363.15	1911.60	744.576
363.15	2977.30	745.832
363.15	4957.50	748.169
363.15	6937.40	750.436
363.15	8892.90	752.564

363.15	10033.00	753.801
363.15	11914.00	755.769
363.15	14908.00	758.826
363.15	17925.00	761.773
363.15	19995.00	763.754
363.15	21953.00	765.578
363.15	24962.00	768.273
363.15	27932.00	770.858
363.15	30163.00	772.879
363.15	32029.00	774.439
363.15	33151.00	775.369
363.15	33315.00	775.421
363.15	34086.00	776.049
363.15	35189.00	776.934
363.15	37932.00	779.076
363.15	40070.00	780.754
363.15	41883.00	782.107
363.15	44755.00	784.308
363.15	48054.00	786.713
363.15	50037.00	788.134
363.15	51977.00	789.492
363.15	55048.00	791.627
363.15	57990.00	793.615
363.15	60071.00	794.972
363.15	62073.00	796.302
363.15	64996.00	798.178
363.15	66050.00	798.847

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Temperature, K	Pressure, kPa	Mass density, kg/m3
298.15	1.53	797.775

Reference

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Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Speed of sound, m/s - Liquid
253.15	102.00	1347.322
253.15	5144.00	1373.695

253.15	10257.00	1399.134
253.15	15122.00	1422.242
253.15	20400.00	1446.625
253.15	25315.00	1467.969
253.15	30039.00	1488.704
273.15	105.00	1274.213
273.15	5154.00	1302.778
273.15	10139.00	1329.437
273.15	15072.00	1354.721
273.15	20215.00	1379.951
273.15	25138.00	1403.158
273.15	30242.00	1426.375
293.15	102.00	1204.925
293.15	5004.00	1234.867
293.15	10097.00	1264.152
293.15	15140.00	1291.722
293.15	20220.00	1318.237
293.15	25063.00	1342.456
293.15	30100.00	1366.71
313.15	104.00	1138.14
313.15	5135.00	1171.059
313.15	10050.00	1201.432
313.15	15190.00	1231.544
313.15	20126.00	1259.038
313.15	25019.00	1285.053
313.15	30259.00	1311.678
333.15	100.00	1071.814
333.15	5187.00	1108.004
333.15	10181.00	1141.267
333.15	15331.00	1173.58
333.15	20135.00	1202.01
333.15	25174.00	1230.377
333.15	30144.00	1257.018
353.15	104.00	1004.081
353.15	5055.00	1042.847
353.15	10093.00	1079.408
353.15	15238.00	1114.154
353.15	20157.00	1145.379
353.15	25111.00	1175.116
353.15	30108.00	1203.555

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Legend

af:	Acentric Factor
affp:	Proton affinity
aigt:	Autoignition Temperature
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
cps:	Solid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fl:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
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
kvisc:	Kinematic viscosity
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
rhoc:	Critical density
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
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

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