Acetonitrile

Other names:	Acetonitril
	CH3CN
	Cyanomethane
	Cyanure de methyl
	ETHANENITIRILE
	Ethanenitrile
	Ethanonitrile
	Ethyl nitrile
	Methane, cyano-
	Methanecarbonitrile
	Methyl cyanide
	Methylkyanid
	NA 1648
	NCI-C60822
	Rcra waste number U003
	UN 1648
	USAF EK-488
Inchi:	InChI=1S/C2H3N/c1-2-3/h1H3
InchiKey:	WEVYAHXRMPXWCK-UHFFFAOYSA-N
Formula:	C2H3N
SMILES:	CC#N
Mol. weight [g/mol]:	41.05
CAS:	75-05-8

Physical Properties

Property code	Value	Unit	Source
af	0.3270		KDB
affp	787.40 ± 5.90	kJ/mol	NIST Webbook
affp	779.20	kJ/mol	NIST Webbook
aigt	797.04	K	KDB
basg	748.00	kJ/mol	NIST Webbook
chl	-1256.33 ± 0.30	kJ/mol	NIST Webbook
chl	-1247.20 ± 7.20	kJ/mol	NIST Webbook
chl	-1270.00	kJ/mol	NIST Webbook

cpl	92.36	J/mol×K	Volumes, Heat Capacities, and Compressibilities of the Mixtures of Acetonitrile with N,N-Dimethylacetamide and Propylene Carbonate
cpl	90.93	J/mol×K	Heat capacities of the mixtures of ionic liquids with acetonitrile
dm	3.50	debye	KDB
ea	0.00 ± 0.01	eV	NIST Webbook
ea	0.01	eV	NIST Webbook
ea	0.01	eV	NIST Webbook
fll	4.40	% in Air	KDB
flu	16.00	% in Air	KDB
fpc	278.71	K	KDB
gf	105.70	kJ/mol	KDB
gyrad	1.8210		KDB
hf	87.92	kJ/mol	KDB
hf	65.86	kJ/mol	NIST Webbook
hf	74.04 ± 0.37	kJ/mol	NIST Webbook
hfl	31.40	kJ/mol	NIST Webbook
hfl	40.56 ± 0.40	kJ/mol	NIST Webbook
hfus	2.44	kJ/mol	Joback Method
hvap	33.00	kJ/mol	NIST Webbook
hvap	33.40	kJ/mol	NIST Webbook
hvap	33.45 ± 0.21	kJ/mol	NIST Webbook
hvap	33.00	kJ/mol	NIST Webbook
hvap	32.94 ± 0.06	kJ/mol	NIST Webbook
ie	12.21	eV	NIST Webbook
ie	15.11	eV	NIST Webbook
ie	12.20 ± 0.01	eV	NIST Webbook
ie	12.20 ± 0.00	eV	NIST Webbook
ie	12.12	eV	NIST Webbook
ie	12.46	eV	NIST Webbook
ie	13.11	eV	NIST Webbook
ie	15.12	eV	NIST Webbook
ie	16.98	eV	NIST Webbook
ie	12.19 ± 0.01	eV	NIST Webbook
ie	12.23 ± 0.05	eV	NIST Webbook
ie	12.38 ± 0.04	eV	NIST Webbook
ie	12.22 ± 0.01	eV	NIST Webbook
ie	12.30 ± 0.25	eV	NIST Webbook
ie	12.33 ± 0.08	eV	NIST Webbook
ie	12.19 ± 0.01	eV	NIST Webbook
ie	12.20	eV	NIST Webbook
ie	12.21 ± 0.00	eV	NIST Webbook

ie	13.14	eV	NIST Webbook
ie	12.20 ± 0.01	eV	NIST Webbook
log10ws	0.26		Aqueous Solubility Prediction Method
log10ws	0.26		Estimated Solubility Method
logp	0.530		Crippen Method
mcvol	40.420	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
nfpas	%!d(float64=1)		KDB
pc	4830.00 ± 20.00	kPa	NIST Webbook
pc	4850.00	kPa	KDB
pc	4890.00 ± 10.00	kPa	NIST Webbook
pc	4830.00 ± 81.06	kPa	NIST Webbook
pc	4934.00 ± 3.00	kPa	NIST Webbook
pc	4934.00 ± 3.00	kPa	NIST Webbook
pc	4833.20 ± 81.06	kPa	NIST Webbook
pc	4833.20 ± 81.06	kPa	NIST Webbook
pc	4830.00 ± 20.00	kPa	NIST Webbook
pc	4934.00 ± 20.00	kPa	NIST Webbook
rinpol	457.67		NIST Webbook
rinpol	455.00		NIST Webbook
rinpol	447.00		NIST Webbook
rinpol	455.00		NIST Webbook
rinpol	464.00		NIST Webbook
rinpol	490.00		NIST Webbook
rinpol	455.00		NIST Webbook
rinpol	443.00		NIST Webbook
rinpol	452.00		NIST Webbook
rinpol	443.00		NIST Webbook
rinpol	447.00		NIST Webbook
rinpol	470.00		NIST Webbook
rinpol	456.00		NIST Webbook
rinpol	500.00		NIST Webbook
rinpol	467.00		NIST Webbook
rinpol	446.00		NIST Webbook
rinpol	439.00		NIST Webbook
rinpol	439.00		NIST Webbook
rinpol	447.00		NIST Webbook
rinpol	444.00		NIST Webbook
rinpol	460.00		NIST Webbook
rinpol	440.00		NIST Webbook
rinpol	425.00		NIST Webbook
rinpol	464.00		NIST Webbook

rinpol	460.00		NIST Webbook
rinpol	450.00		NIST Webbook
rinpol	442.00		NIST Webbook
rinpol	432.00		NIST Webbook
rinpol	456.90		NIST Webbook
rinpol	452.35		NIST Webbook
rinpol	452.50		NIST Webbook
rinpol	452.53		NIST Webbook
rinpol	452.92		NIST Webbook
rinpol	453.32		NIST Webbook
rinpol	453.90		NIST Webbook
rinpol	454.52		NIST Webbook
rinpol	455.45		NIST Webbook
rinpol	452.72		NIST Webbook
rinpol	452.90		NIST Webbook
rinpol	452.71		NIST Webbook
rinpol	453.18		NIST Webbook
rinpol	453.70		NIST Webbook
rinpol	455.25		NIST Webbook
rinpol	455.74		NIST Webbook
rinpol	456.69		NIST Webbook
rinpol	439.00		NIST Webbook
rinpol	454.45		NIST Webbook
ripol	1003.00		NIST Webbook
ripol	1002.00		NIST Webbook
ripol	1011.00		NIST Webbook
ripol	1045.00		NIST Webbook
ripol	1010.00		NIST Webbook
ripol	1012.00		NIST Webbook
ripol	1026.00		NIST Webbook
ripol	1045.00		NIST Webbook
ripol	988.00		NIST Webbook
ripol	1030.00		NIST Webbook
ripol	1026.00		NIST Webbook
ripol	1002.00		NIST Webbook
ripol	1026.00		NIST Webbook
ripol	1025.00		NIST Webbook
ripol	1045.00		NIST Webbook
ripol	1013.00		NIST Webbook
ripol	1013.00		NIST Webbook
ripol	1012.00		NIST Webbook
sl	149.62	J/mol×K	NIST Webbook

tb	354.25	K	Vapor Liquid Equilibria Measurement of (Methanol + Ethanenitrile + Bis(trifluoromethylsulfonyl) Imide)-Based Ionic Liquids at 101.3 kPa
tb	354.74	K	Isobaric Vapor-Liquid Equilibrium of the Acetonitrile + 1-Propanol + Ionic Liquids at an Atmospheric Pressure
tb	354.65	K	Vapor-Liquid Equilibria for the Ternary System Acetonitrile + 1-Propanol + Dimethyl Sulfoxide and the Corresponding Binary Systems at 101.3 kPa
tb	354.75	K	Isobaric Vapor Liquid Equilibrium for the Acetonitrile + Water System Containing Different Ionic Liquids at Atmospheric Pressure
tb	354.75 ± 0.20	K	NIST Webbook
tb	354.80	K	NIST Webbook
tb	354.25 ± 0.30	K	NIST Webbook
tb	355.00	K	NIST Webbook
tb	354.60 ± 0.30	K	NIST Webbook
tb	354.25 ± 0.50	K	NIST Webbook
tb	370.55 ± 0.10	K	NIST Webbook
tb	354.70	K	NIST Webbook
tb	354.75 ± 0.50	K	NIST Webbook
tb	354.70	K	NIST Webbook
tb	354.80 ± 0.40	K	NIST Webbook
tb	354.80 ± 0.50	K	NIST Webbook
tb	354.75 ± 0.20	K	NIST Webbook
tb	354.80 ± 0.30	K	NIST Webbook
tb	354.75	K	NIST Webbook
tb	354.45 ± 0.50	K	NIST Webbook
tb	354.65 ± 0.50	K	NIST Webbook
tb	354.80 ± 0.30	K	NIST Webbook
tb	355.00 ± 0.50	K	NIST Webbook
tb	351.00 ± 3.00	K	NIST Webbook
tb	354.71 ± 0.20	K	NIST Webbook
tb	354.35 ± 0.50	K	NIST Webbook
tb	354.70 ± 2.00	K	NIST Webbook
tb	355.00 ± 1.50	K	NIST Webbook
tb	354.72 ± 0.10	K	NIST Webbook
tb	355.00 ± 2.00	K	NIST Webbook
tb	355.00 ± 0.50	K	NIST Webbook
tb	354.90 ± 0.30	K	NIST Webbook

tb	354.70 ± 2.00	K	NIST Webbook
tb	355.15 ± 1.50	K	NIST Webbook
tb	354.80 ± 0.50	K	NIST Webbook
tb	354.00 ± 2.00	K	NIST Webbook
tb	355.00 ± 2.00	K	NIST Webbook
tb	354.90 ± 0.70	K	NIST Webbook
tb	353.00 ± 2.00	K	NIST Webbook
tb	354.70	K	Acetonitrile Dehydration via Extractive Distillation Using Low Transition Temperature Mixtures as Entrainers
tb	353.90 ± 1.50	K	NIST Webbook
tb	354.80 ± 0.30	K	NIST Webbook
tb	354.80 ± 0.30	K	NIST Webbook
tb	354.90 ± 0.20	K	NIST Webbook
tb	354.80 ± 0.30	K	NIST Webbook
tb	354.80 ± 0.60	K	NIST Webbook
tb	354.80 ± 0.40	K	NIST Webbook
tb	354.75 ± 0.30	K	NIST Webbook
tb	354.95 ± 1.50	K	NIST Webbook
tb	354.75 ± 0.30	K	NIST Webbook
tb	354.70 ± 0.40	K	NIST Webbook
tb	354.75 ± 0.20	K	NIST Webbook
tb	354.68	K	Measurement and correlation of isobaric vapour-liquid equilibrium for the (acetonitrile + water) system containing different ionic liquids at atmospheric pressure
tb	354.69 ± 0.30	K	NIST Webbook
tb	354.90 ± 0.60	K	NIST Webbook
tb	354.69 ± 0.50	K	NIST Webbook
tb	355.00 ± 1.50	K	NIST Webbook
tb	354.65	K	(Vapour + liquid) equilibria in the ternary system (acetonitrile + n-propanol + ethylene glycol) and corresponding binary systems at 101.3 kPa
tb	355.00 ± 2.00	K	NIST Webbook
tb	354.80	K	KDB
tb	354.65	K	The isobaric vapor liquid equilibria of ethyl acetate p acetonitrile p bis(trifluoromethylsulfonyl)imide-based ionic liquids at 101.3 kPa
tc	543.45 ± 1.00	K	NIST Webbook
tc	545.50	K	KDB
tc	544.99 ± 0.20	K	NIST Webbook

tc	544.99 ± 0.20	K	NIST Webbook
tc	544.99 ± 0.20	K	NIST Webbook
tc	543.20 ± 2.00	K	NIST Webbook
tc	543.15 ± 1.00	K	NIST Webbook
tc	545.50 ± 0.20	K	NIST Webbook
tc	545.50 ± 0.30	K	NIST Webbook
tc	545.50 ± 0.30	K	NIST Webbook
tf	227.45	K	Aqueous Solubility Prediction Method
tf	229.32	K	KDB
tf	229.07	K	Efficient determination of crystallisation and melting points at low cooling and heating rates with novel computer controlled equipment
tf	230.42	K	Experimental (Solid + Liquid) and (Liquid + Liquid) Equilibria and Excess Molar Volume of Alkanol + Acetonitrile, Propanenitrile, and Butanenitrile Mixtures
tt	229.32 ± 0.02	K	NIST Webbook
vc	0.173	m3/kmol	KDB
zc	0.1849930		KDB
zra	0.20		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	59.46	J/mol×K	379.59	Joback Method
cpg	62.33	J/mol×K	411.95	Joback Method
cpg	65.11	J/mol×K	444.30	Joback Method
cpg	67.79	J/mol×K	476.66	Joback Method
cpg	70.38	J/mol×K	509.01	Joback Method
cpg	72.87	J/mol×K	541.37	Joback Method
cpg	56.48	J/mol×K	347.24	Joback Method
cpl	92.21	J/mol×K	303.15	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents

cpl	92.40	J/mol×K	308.15	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents
cpl	82.50	J/mol×K	297.00	NIST Webbook
cpl	91.69	J/mol×K	298.15	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents
cpl	91.70	J/mol×K	298.15	NIST Webbook
cpl	91.70	J/mol×K	298.15	NIST Webbook
cpl	91.70	J/mol×K	298.15	NIST Webbook
cpl	81.80	J/mol×K	303.15	NIST Webbook
cpl	77.40	J/mol×K	298.15	NIST Webbook
cpl	92.82	J/mol×K	313.15	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents
cpl	91.69	J/mol×K	298.15	NIST Webbook
cpl	91.46	J/mol×K	298.15	NIST Webbook
dvisc	0.0003270	Pa×s	313.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003900	Pa×s	293.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile

dvisc	0.0003500	Pa×s	303.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003300	Pa×s	313.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003000	Pa×s	323.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0002800	Pa×s	333.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0002600	Pa×s	343.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003443	Pa×s	298.15	Studies on Thermodynamic and Transport Properties of Binary Mixtures of Acetonitrile with Some Cyclic Ethers at Different Temperatures by Volumetric, Viscometric, and Interferometric Techniques

dvisc	0.0003124	Pa×s	308.15	Studies on Thermodynamic and Transport Properties of Binary Mixtures of Acetonitrile with Some Cyclic Ethers at Different Temperatures by Volumetric, Viscometric, and Interferometric Techniques
dvisc	0.0002890	Pa×s	318.15	Studies on Thermodynamic and Transport Properties of Binary Mixtures of Acetonitrile with Some Cyclic Ethers at Different Temperatures by Volumetric, Viscometric, and Interferometric Techniques
dvisc	0.0002891	Pa×s	318.15	Studies on Thermodynamic and Transport Properties of Binary Mixtures of Acetonitrile with Some Cyclic Ethers at Different Temperatures by Volumetric, Viscometric, and Interferometric Techniques
dvisc	0.0003125	Pa×s	308.15	Electrical Conductances of 1-Butyl-3-propylimidazolium Bromide and 1-Butyl-3-propylbenzimidazolium Bromide in Water, Methanol, and Acetonitrile at (308, 313, and 318) K at 0.1 MPa
dvisc	0.0003042	Pa×s	313.15	Electrical Conductances of 1-Butyl-3-propylimidazolium Bromide and 1-Butyl-3-propylbenzimidazolium Bromide in Water, Methanol, and Acetonitrile at (308, 313, and 318) K at 0.1 MPa

dvisc	0.0002903	Pa×s	318.15	Electrical Conductances of 1-Butyl-3-propylimidazolium Bromide and 1-Butyl-3-propylbenzimidazolium Bromide in Water, Methanol, and Acetonitrile at (308, 313, and 318) K at 0.1 MPa
dvisc	0.0003700	Pa×s	298.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003540	Pa×s	303.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003414	Pa×s	308.15	Molecular interaction studies and theoretical estimation of ultrasonic speeds using scaled particle theory in binary mixtures of toluene with homologous nitriles at different temperatures
dvisc	0.0003020	Pa×s	323.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile

dvisc	0.0002810	Pa×s	333.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0002620	Pa×s	343.15	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
dvisc	0.0003440	Pa×s	298.15	Viscosity, Density, and Speed of Sound for the Binary Mixtures of Formamide with 2-Methoxyethanol, Acetophenone, Acetonitrile, 1,2-Dimethoxyethane, and Dimethylsulfoxide at Different Temperatures
dvisc	0.0003554	Pa×s	303.15	Molecular interaction studies and theoretical estimation of ultrasonic speeds using scaled particle theory in binary mixtures of toluene with homologous nitriles at different temperatures
dvisc	0.0002890	Pa×s	318.15	Viscosity, Density, and Speed of Sound for the Binary Mixtures of Formamide with 2-Methoxyethanol, Acetophenone, Acetonitrile, 1,2-Dimethoxyethane, and Dimethylsulfoxide at Different Temperatures

dvisc	0.0003417	Pa×s	298.15	Density and Viscosity of Anhydrous Mixtures of Dimethylsulfoxide with Acetonitrile in the Range (298.15 to 318.15) K
dvisc	0.0003280	Pa×s	303.15	Density and Viscosity of Anhydrous Mixtures of Dimethylsulfoxide with Acetonitrile in the Range (298.15 to 318.15) K
dvisc	0.0003129	Pa×s	308.15	Density and Viscosity of Anhydrous Mixtures of Dimethylsulfoxide with Acetonitrile in the Range (298.15 to 318.15) K
dvisc	0.0003009	Pa×s	313.15	Density and Viscosity of Anhydrous Mixtures of Dimethylsulfoxide with Acetonitrile in the Range (298.15 to 318.15) K
dvisc	0.0002899	Pa×s	318.15	Density and Viscosity of Anhydrous Mixtures of Dimethylsulfoxide with Acetonitrile in the Range (298.15 to 318.15) K
dvisc	0.0003081	Pa×s	293.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures
dvisc	0.0002857	Pa×s	298.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures

dvisc	0.0002642	Pa×s	303.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures
dvisc	0.0002444	Pa×s	308.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures
dvisc	0.0002374	Pa×s	310.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures
dvisc	0.0002267	Pa×s	313.15	Thermodynamic Study of Phenyl Salicylate Solutions in Aprotic Solvents at Different Temperatures
dvisc	0.0003696	Pa×s	298.15	Molecular interaction studies and theoretical estimation of ultrasonic speeds using scaled particle theory in binary mixtures of toluene with homologous nitriles at different temperatures
dvisc	0.0002620	Pa×s	343.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0002810	Pa×s	333.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents

dvisc	0.0003020	Pa×s	323.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0003270	Pa×s	313.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0003540	Pa×s	303.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0003700	Pa×s	298.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0003860	Pa×s	293.15	Viscosity of binary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid with four organic solvents
dvisc	0.0003009	Pa×s	313.15	The (water + acetonitrile) mixture revisited: A new approach for calculating partial molar volumes
dvisc	0.0003129	Pa×s	308.15	The (water + acetonitrile) mixture revisited: A new approach for calculating partial molar volumes
dvisc	0.0003280	Pa×s	303.15	The (water + acetonitrile) mixture revisited: A new approach for calculating partial molar volumes

dvisc	0.0003417	Pa×s	298.15	The (water + acetonitrile) mixture revisited: A new approach for calculating partial molar volumes
dvisc	0.0002680	Pa×s	328.15	Volumetric properties of ionic liquid 1,3-dimethylimidazolium methyl sulfate + molecular solvents at T = (298.15 - 328.15) K
dvisc	0.0002918	Pa×s	318.15	Volumetric properties of ionic liquid 1,3-dimethylimidazolium methyl sulfate + molecular solvents at T = (298.15 - 328.15) K
dvisc	0.0003171	Pa×s	308.15	Volumetric properties of ionic liquid 1,3-dimethylimidazolium methyl sulfate + molecular solvents at T = (298.15 - 328.15) K
dvisc	0.0003431	Pa×s	298.15	Volumetric properties of ionic liquid 1,3-dimethylimidazolium methyl sulfate + molecular solvents at T = (298.15 - 328.15) K
dvisc	0.0002899	Pa×s	318.15	The (water + acetonitrile) mixture revisited: A new approach for calculating partial molar volumes
dvisc	0.0003130	Pa×s	308.15	Viscosity, Density, and Speed of Sound for the Binary Mixtures of Formamide with 2-Methoxyethanol, Acetophenone, Acetonitrile, 1,2-Dimethoxyethane, and Dimethylsulfoxide at Different Temperatures

dvisc	0.0003700	Pa×s	298.15	Viscosities of 1-Hexyl-3-methylimidazolium Tetrafluoroborate and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile
hfust	8.17	kJ/mol	229.30	NIST Webbook
hvapt	34.20	kJ/mol	298.00	NIST Webbook
hvapt	34.80	kJ/mol	321.00	NIST Webbook
hvapt	33.30	kJ/mol	334.50	NIST Webbook
hvapt	29.75	kJ/mol	354.70	NIST Webbook
hvapt	33.23	kJ/mol	298.15	NIST Webbook
hvapt	31.38	kJ/mol	352.80	KDB
hvapt	33.90	kJ/mol	290.00	NIST Webbook
hvapt	33.80	kJ/mol	325.00	NIST Webbook
pvap	4.54	kPa	278.88	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	55.46	kPa	336.56	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	60.76	kPa	339.20	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile

pvap	64.81	kPa	341.07	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	71.24	kPa	343.86	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	75.40	kPa	345.58	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	80.49	kPa	347.55	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	86.34	kPa	349.69	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile

pvap	92.16	kPa	351.76	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	99.40	kPa	354.12	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	101.30	kPa	354.75	Isobaric Vapor Liquid Equilibrium for the Acetonitrile + Water System Containing Different Ionic Liquids at Atmospheric Pressure
pvap	1096.90	kPa	453.15	Vapor-Liquid Equilibria on Seven Binary Systems: Ethylene Oxide + 2-Methylpropane; Acetophenone + Phenol; cis-1,3-Dichloropropene + 1,2-Dichloropropane; 1,5-Hexadiene + Allyl Chloride; Isopropyl Acetate + Acetonitrile; Vinyl Chloride + Methyl Chloride; and 1,4-Butanediol + c-Butyrolactone

pvap	297.37	kPa	393.15	Vapor-Liquid Equilibria on Seven Binary Systems: Ethylene Oxide + 2-Methylpropane; Acetophenone + Phenol; cis-1,3-Dichloropropene + 1,2-Dichloropropane; 1,5-Hexadiene + Allyl Chloride; Isopropyl Acetate + Acetonitrile; Vinyl Chloride + Methyl Chloride; and 1,4-Butanediol + c-Butyrolactone
pvap	49.16	kPa	333.15	Vapor-Liquid Equilibria on Seven Binary Systems: Ethylene Oxide + 2-Methylpropane; Acetophenone + Phenol; cis-1,3-Dichloropropene + 1,2-Dichloropropane; 1,5-Hexadiene + Allyl Chloride; Isopropyl Acetate + Acetonitrile; Vinyl Chloride + Methyl Chloride; and 1,4-Butanediol + c-Butyrolactone
pvap	4174.61	kPa	535.03	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	4001.46	kPa	532.08	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	3760.37	kPa	527.79	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	3512.89	kPa	523.15	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry

pvap	3254.08	kPa	518.01	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	2999.22	kPa	512.61	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	2747.95	kPa	506.92	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	2523.66	kPa	501.48	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	2303.51	kPa	495.75	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	2110.77	kPa	490.37	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	1923.88	kPa	484.77	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	1749.84	kPa	479.15	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	49.76	kPa	333.51	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile

pvap	43.71	kPa	329.94	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	37.80	kPa	326.03	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	27.19	kPa	317.53	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	18.59	kPa	308.32	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	49.76	kPa	333.57	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile

pvap	71.24	kPa	343.94	Vapor Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile
pvap	33.86	kPa	323.15	Vapor Pressures for the Acetonitrile + Tetrabutylammonium Bromide, Water + Tetrabutylammonium Bromide, and Acetonitrile + Water + Tetrabutylammonium Bromide Systems
pvap	101.30	kPa	354.65	The isobaric vapor liquid equilibria of ethyl acetate p acetonitrile p bis(trifluoromethylsulfonyl)imide-based ionic liquids at 101.3 kPa
pvap	16.47	kPa	305.51	Experimental determination and prediction of gas solubility data for oxygen in acetonitrile
pvap	33.71	kPa	323.12	Experimental determination and prediction of gas solubility data for oxygen in acetonitrile
pvap	96.17	kPa	353.13	Experimental determination and prediction of gas solubility data for oxygen in acetonitrile
pvap	4.44	kPa	278.72	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	1602.63	kPa	474.05	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	4.51	kPa	278.98	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	4.73	kPa	279.81	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	4.86	kPa	280.27	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	5.34	kPa	281.91	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	5.64	kPa	283.17	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	5.84	kPa	283.56	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	5.92	kPa	283.81	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	6.10	kPa	284.56	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	6.47	kPa	285.70	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	6.59	kPa	286.17	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	6.75	kPa	286.61	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	7.50	kPa	288.72	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	7.56	kPa	288.80	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	7.59	kPa	288.83	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	7.80	kPa	289.39	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	8.03	kPa	290.09	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	8.30	kPa	290.60	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	8.60	kPa	291.36	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	9.16	kPa	292.48	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	9.41	kPa	293.21	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	9.82	kPa	293.92	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	10.03	kPa	294.40	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	10.43	kPa	295.33	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	10.77	kPa	295.94	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	11.02	kPa	296.44	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	11.60	kPa	297.48	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	12.05	kPa	298.30	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	12.17	kPa	298.67	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	12.61	kPa	299.42	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	13.61	kPa	301.19	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	14.18	kPa	302.14	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	15.57	kPa	304.16	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	16.10	kPa	305.01	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	16.96	kPa	306.04	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	17.53	kPa	306.90	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	18.22	kPa	307.95	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	19.85	kPa	309.92	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	20.49	kPa	310.71	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	21.38	kPa	311.79	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	21.55	kPa	311.88	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	22.50	kPa	312.81	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	23.42	kPa	313.77	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	24.17	kPa	314.79	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	25.10	kPa	315.71	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	25.15	kPa	315.79	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	26.11	kPa	316.63	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	27.21	kPa	317.72	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	28.27	kPa	318.66	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	29.39	kPa	319.69	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	30.52	kPa	320.67	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	31.73	kPa	321.65	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	32.95	kPa	322.54	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	32.94	kPa	322.56	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran

pvap	33.19	kPa	322.64	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	34.49	kPa	323.64	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	35.65	kPa	324.59	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	37.00	kPa	325.58	Vapor pressures and activity coefficients of binary mixtures of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide with acetonitrile and tetrahydrofuran
pvap	101.32	kPa	354.25	Vapor Liquid Equilibria Measurement of (Methanol + Ethanenitrile + Bis(trifluoromethylsulfonyl) Imide)-Based Ionic Liquids at 101.3 kPa
pvap	10.00	kPa	295.25	Phase Behavior of Binary Mixtures Containing Succinic Acid or Its Esters
pvap	10.00	kPa	295.40	Phase Behavior of Binary Mixtures Containing Succinic Acid or Its Esters

pvap	101.32	kPa	354.70	Acetonitrile Dehydration via Extractive Distillation Using Low Transition Temperature Mixtures as Entrainers
pvap	1450.28	kPa	468.37	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	131.21	kPa	363.15	Vapor-Liquid Equilibria for Four Binary Systems at 363.15 K: N-Methylformamide + Hexane, + Benzene, + Chlorobenzene, and + Acetonitrile
pvap	14.15	kPa	302.25	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	17.52	kPa	307.09	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	21.13	kPa	311.49	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	22.65	kPa	313.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	25.72	kPa	316.27	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol

pvap	27.78	kPa	318.18	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	30.64	kPa	320.65	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	33.80	kPa	323.16	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	37.90	kPa	326.16	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	41.38	kPa	328.50	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	45.62	kPa	331.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	49.06	kPa	333.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	54.01	kPa	335.84	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	58.58	kPa	338.15	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol

pvap	69.62	kPa	343.18	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	82.37	kPa	348.25	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	96.34	kPa	353.10	Vapor-Liquid Equilibrium for Acetonitrile + Propanenitrile and 1-Pentanamine + 1-Methoxy-2-propanol
pvap	4.32	kPa	277.92	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	4.49	kPa	278.62	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	5.25	kPa	281.57	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	6.38	kPa	285.38	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	7.17	kPa	287.67	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	8.30	kPa	290.65	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	9.18	kPa	292.75	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	10.60	kPa	295.78	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry

pvap	13.37	kPa	300.82	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	15.27	kPa	303.81	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	19.64	kPa	309.64	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	24.97	kPa	315.43	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	31.31	kPa	321.12	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	36.39	kPa	325.02	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	45.91	kPa	331.27	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	55.17	kPa	336.41	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	65.07	kPa	341.18	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	75.44	kPa	345.57	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	85.31	kPa	349.33	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	95.59	kPa	352.88	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry

pvap	100.75	kPa	354.55	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	101.12	kPa	354.67	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	110.61	kPa	357.56	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	122.63	kPa	360.94	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	125.13	kPa	361.61	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	155.33	kPa	368.97	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	168.12	kPa	371.74	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	175.04	kPa	373.17	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	204.59	kPa	378.81	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	235.79	kPa	384.11	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	306.28	kPa	394.29	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	399.50	kPa	405.24	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry

pvap	502.67	kPa	415.21	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	605.60	kPa	423.68	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	708.99	kPa	431.12	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	804.86	kPa	437.30	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	910.82	kPa	443.50	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	1025.47	kPa	449.60	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	1151.97	kPa	455.74	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	1290.20	kPa	461.87	Vapor Pressures of Acetonitrile Determined by Comparative Ebulliometry
pvap	101.30	kPa	354.74	Isobaric Vapor-Liquid Equilibrium of the Acetonitrile + 1-Propanol + Ionic Liquids at an Atmospheric Pressure
rfi	1.34390		293.15	A novel static analytical apparatus for phase equilibrium measurements
rfi	1.34139		298.15	Isothermal Vapor-Liquid Equilibrium of Binary Mixtures Containing 1-Chlorobutane, Ethanol, or Acetonitrile

rfi	1.34410	295.10	Ternary Liquid-Liquid Equilibria of Acetonitrile and Water with Heptanoic Acid and Nonanol at 323.15 K and 1 atm
rfi	1.34190	298.15	Viscosity, Density, Speed of Sound, and Refractive Index of Binary Mixtures of Organic Solvent + Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate at 298.15 K
rfi	1.34386	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	1.34160	298.15	Acoustic and Volumetric Properties of Binary Mixtures of Ionic Liquid 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with Acetonitrile and Tetrahydrofuran
rfi	1.34250	293.15	Isobaric Vapor Liquid Equilibrium for the Extractive Distillation of Acetonitrile + Water Mixtures Using Dimethyl Sulfoxide at 101.3 kPa
rfi	1.34300	293.15	Solubilities of Phosphorus-Containing Compounds in Selected Solvents
rfi	1.34300	293.15	Solubilities of Some Phosphaspirocyclic Compounds in Selected Solvents

rfi	1.34180	298.15	Vapor-Liquid Equilibrium Data for the Binary Methyl Esters (Butyrate, Pentanoate, and Hexanoate) (1) + Acetonitrile (2) Systems at 93.32 kPa	
rfi	1.34180	298.15	Physics and Chemistry of Lithium Halides in 1,3-Dioxolane and Its Binary Mixtures with Acetonitrile probed by Conductometric, Volumetric, Viscometric, Refractometric and Acoustic Study	
rfi	1.33710	308.15	Densities, viscosities, excess molar volumes, and refractive indices of acetonitrile and 2-alkanols binary mixtures at different temperatures: Experimental results and application of the Prigogine Flory Patterson theory	
rfi	1.33900	303.15	Densities, viscosities, excess molar volumes, and refractive indices of acetonitrile and 2-alkanols binary mixtures at different temperatures: Experimental results and application of the Prigogine Flory Patterson theory	

rfi	1.34110	298.15	Densities, viscosities, excess molar volumes, and refractive indices of acetonitrile and 2-alkanols binary mixtures at different temperatures: Experimental results and application of the Prigogine Flory Patterson theory	
rfi	1.34360	293.15	Densities, viscosities, excess molar volumes, and refractive indices of acetonitrile and 2-alkanols binary mixtures at different temperatures: Experimental results and application of the Prigogine Flory Patterson theory	
rfi	1.34420	293.15	ERAS modeling of the excess molar enthalpies of binary liquid mixtures of 1-pentanol and 1-hexanol with acetonitrile at atmospheric pressure and 288, 298, 313 and 323K	
rfi	1.34390	293.15	Experimental solubility for betulin and estrone in various solvents within the temperature range T = (293.2 to 328.2) K	
rfi	1.35900	298.15	Volumetric properties, viscosity and refractive index of the protic ionic liquid, pyrrolidinium octanoate, in molecular solvents	

rfi	1.34410		293.15	Experimental study and ERAS modeling of the excess molar enthalpy of (acetonitrile + 1-heptanol or 1-octanol) mixtures at (298.15, 313.15, and 323.15) K and atmospheric pressure
rfi	1.34160		298.15	(Vapor + liquid) equilibrium of the binary mixtures formed by acetonitrile with selected compounds at 95.5 kPa
rfi	1.34160		298.15	Excess Gibbs free energies of the binary mixtures of acetonitrile with butanols at 94.83 kPa
rfi	1.33960		303.15	Liquid liquid equilibria measurements of ternary systems (acetonitrile + a carboxylic acid + dodecane) at 303.15 K
rhol	776.85	kg/m3	298.15	Compressibility Studies of Some Copper(I), Silver(I), and Tetrabutylammonium Salts in Acetonitrile + Adiponitrile Binary Mixtures
rhol	761.45	kg/m3	308.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K

rhol	771.43	kg/m3	303.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	776.65	kg/m3	298.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	754.85	kg/m3	318.15	Density, Viscosity, Speed of Sound, and Refractive Index of a Ternary Solution of Aspirin, 1-Butyl-3-methylimidazolium Bromide, and Acetonitrile at Different Temperatures T = (288.15 to 318.15) K
rhol	765.81	kg/m3	308.15	Density, Viscosity, Speed of Sound, and Refractive Index of a Ternary Solution of Aspirin, 1-Butyl-3-methylimidazolium Bromide, and Acetonitrile at Different Temperatures T = (288.15 to 318.15) K

rhol	776.62	kg/m3	298.15	Density, Viscosity, Speed of Sound, and Refractive Index of a Ternary Solution of Aspirin, 1-Butyl-3-methylimidazolium Bromide, and Acetonitrile at Different Temperatures T = (288.15 to 318.15) K
rhol	787.39	kg/m3	288.15	Density, Viscosity, Speed of Sound, and Refractive Index of a Ternary Solution of Aspirin, 1-Butyl-3-methylimidazolium Bromide, and Acetonitrile at Different Temperatures T = (288.15 to 318.15) K
rhol	726.43	kg/m3	343.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	737.86	kg/m3	333.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	749.11	kg/m3	323.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	760.18	kg/m3	313.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents

rhol	755.36	kg/m3	313.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	768.14	kg/m3	303.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	760.00	kg/m3	308.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	752.55	kg/m3	313.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	761.40	kg/m3	308.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K

rhol	752.52	kg/m3	313.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	763.20	kg/m3	308.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	755.34	kg/m3	313.15	Densities and Viscosities of Ternary N,N'-Bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff Base + Imidazolium Based Ionic Liquids + Acetonitrile Solutions at T = (298.15 to 313.15) K
rhol	782.30	kg/m3	293.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	776.93	kg/m3	298.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K

rhol	771.44	kg/m3	303.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	765.97	kg/m3	308.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	760.68	kg/m3	313.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	749.73	kg/m3	323.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	738.19	kg/m3	333.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K

rhol	726.94	kg/m3	343.15	Densities of Ionic Liquids, 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Tetrafluoroborate, with Benzene, Acetonitrile, and 1-Propanol at T = (293.15 to 343.15) K
rhol	782.04	kg/m3	293.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures
rhol	776.64	kg/m3	298.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures
rhol	771.21	kg/m3	303.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures
rhol	765.75	kg/m3	308.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures
rhol	760.25	kg/m3	313.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures

rhol	754.73	kg/m3	318.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-methylimidazolium Chloride + Water or Hydrophilic Solvents at Different Temperatures
rhol	771.13	kg/m3	303.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	776.55	kg/m3	298.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	781.95	kg/m3	293.15	Volumetric Properties of Binary Mixtures of Two 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids with Molecular Solvents
rhol	776.62	kg/m3	298.15	Calorimetric Study of Nitrile Group-Solvent Interactions and Comparison with Dispersive Quasi-Chemical (DISQUAC) Predictions
rhol	760.20	kg/m3	313.15	Volumetric Properties of Binary Mixtures Containing Ionic Liquids and Some Aprotic Solvents
rhol	765.68	kg/m3	308.15	Volumetric Properties of Binary Mixtures Containing Ionic Liquids and Some Aprotic Solvents

rhol	771.12	kg/m3	303.13	Volumetric Properties of Binary Mixtures Containing Ionic Liquids and Some Aprotic Solvents
rhol	776.52	kg/m3	298.15	Volumetric Properties of Binary Mixtures Containing Ionic Liquids and Some Aprotic Solvents
rhol	781.89	kg/m3	293.15	Volumetric Properties of Binary Mixtures Containing Ionic Liquids and Some Aprotic Solvents
rhol	749.07	kg/m3	323.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	749.07	kg/m3	323.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	749.11	kg/m3	323.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile

rhol	749.07	kg/m3	323.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	760.16	kg/m3	313.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	760.15	kg/m3	313.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	782.00	kg/m3	293.00	KDB
rhol	776.53	kg/m3	298.15	Volumetric Properties of the Ionic Liquid, 1-Butyl-3-methylimidazolium Tetrafluoroborate, in Organic Solvents at T = 298.15 K
rhol	765.98	kg/m3	308.10	Synthesis of 1,3-Dimethylimidazolium Chloride and Volumetric Property Investigations of Its Aqueous Solution
rhol	786.50	kg/m3	293.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data

rhol	781.10	kg/m3	298.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data	
rhol	773.30	kg/m3	303.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data	
rhol	766.50	kg/m3	308.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data	
rhol	760.50	kg/m3	313.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data	
rhol	776.50	kg/m3	298.15	Bubble point measurements of binary mixtures formed by 1-hexanol with selected nitro-compounds and substituted benzenes at 95.6 kPa	
rhol	783.38	kg/m3	293.15	Isobaric vapor liquid equilibrium for binary system of methanol and acetonitrile	

rhol	776.55	kg/m3	298.15	Liquid-liquid equilibrium data for ternary mixtures composed of n-hexane, benzene and acetonitrile at (298.15, 308.15, and 318.15) K
rhol	776.64	kg/m3	298.15	Liquid liquid equilibria in the ternary systems {hexadecane + BTX aromatics + 2-methoxyethanol or acetonitrile} at 298.15 K
rhol	782.10	kg/m3	293.15	Effect of imidazolium-based ionic liquid on vapor-liquid equilibria of 2-propanol + acetonitrile binary system at 101.3 kPa
rhol	776.69	kg/m3	298.15	Standard partial molar volumes of some electrolytes in ethylene carbonate based mixtures
rhol	776.53	kg/m3	298.15	Volumetric and compressibility behaviour of ionic liquid, 1-n-butyl-3-methylimidazolium hexafluorophosphate and tetrabutylammonium hexafluorophosphate in organic solvents at T = 298.15 K
rhol	782.10	kg/m3	293.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	776.80	kg/m3	298.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K

rhol	771.50	kg/m3	303.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	766.30	kg/m3	308.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	761.00	kg/m3	313.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	755.70	kg/m3	318.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	776.60	kg/m3	298.15	Density and speed of sound of lithium bromide with organic solvents: Measurement and correlation
rhol	787.38	kg/m3	288.15	Volumetric properties of binary mixtures of ethers and acetonitrile: Experimental results and application of the Prigogine Flory Patterson theory
rhol	782.01	kg/m3	293.15	Volumetric properties of binary mixtures of ethers and acetonitrile: Experimental results and application of the Prigogine Flory Patterson theory

rhol	776.62	kg/m3	298.15	Volumetric properties of binary mixtures of ethers and acetonitrile: Experimental results and application of the Prigogine Flory Patterson theory
rhol	771.19	kg/m3	303.15	Volumetric properties of binary mixtures of ethers and acetonitrile: Experimental results and application of the Prigogine Flory Patterson theory
rhol	776.74	kg/m3	298.15	Probing subsistence of ion-pair and triple-ion of an ionic salt in liquid environments by means of conductometric contrivance
rhol	776.47	kg/m3	298.15	Solution thermodynamics of iron(III)-N,N'-ethylene-bis(salicylideneiminato)-chloride in binary mixtures of N,N-dimethylformamide and acetonitrile at T = (298.15, 303.15, 308.15 and 313.15) K
rhol	771.56	kg/m3	303.15	Solution thermodynamics of iron(III)-N,N'-ethylene-bis(salicylideneiminato)-chloride in binary mixtures of N,N-dimethylformamide and acetonitrile at T = (298.15, 303.15, 308.15 and 313.15) K
rhol	765.26	kg/m3	308.15	Solution thermodynamics of iron(III)-N,N'-ethylene-bis(salicylideneiminato)-chloride in binary mixtures of N,N-dimethylformamide and acetonitrile at T = (298.15, 303.15, 308.15 and 313.15) K

rhol	759.55	kg/m3	313.15	Solution thermodynamics of iron(III)-N,N'-ethylene-bis(salicylideneiminato)-chloride in binary mixtures of N,N-dimethylformamide and acetonitrile at T = (298.15, 303.15, 308.15 and 313.15) K
rhol	776.62	kg/m3	298.15	Ionic molar volumes in methanol mixtures with acetonitrile, N,N-dimethylformamide and propylene carbonate at T = 298.15 K
rhol	776.30	kg/m3	298.15	Solubility and solution thermodynamics of sorbic acid in eight pure organic solvents
rhol	782.01	kg/m3	293.15	Volumetric properties of binary mixtures of (acetonitrile + amines) at several temperatures with application of the ERAS model
rhol	776.61	kg/m3	298.15	Volumetric properties of binary mixtures of (acetonitrile + amines) at several temperatures with application of the ERAS model
rhol	771.20	kg/m3	303.15	Volumetric properties of binary mixtures of (acetonitrile + amines) at several temperatures with application of the ERAS model

rhol	765.75	kg/m3	308.15	Volumetric properties of binary mixtures of (acetonitrile + amines) at several temperatures with application of the ERAS model	
rhol	777.10	kg/m3	298.15	Solubility and solution thermodynamics of thymol in six pure organic solvents	
rhol	777.00	kg/m3	298.15	Measurement and correlation of solubility and solution thermodynamics of 1,3-dimethylurea in different solvents from T = (288.15 to 328.15) K	
rhol	782.10	kg/m3	293.15	Measurement and correlation of the vapor-liquid equilibrium for methanol + acetonitrile + imidazolium-based ionic liquids at 101.3 kPa	
rhol	782.12	kg/m3	293.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	
rhol	776.82	kg/m3	298.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	

rhol	771.52	kg/m3	303.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	
rhol	766.21	kg/m3	308.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	
rhol	760.90	kg/m3	313.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	
rhol	755.59	kg/m3	318.15	Densities and volumetric properties of (acetonitrile + alkyl acrylate monomer) binary mixtures at temperatures from 293.15 K to 318.15 K	
rhol	782.00	kg/m3	293.15	Thermodynamic and transport properties of acetonitrile + alkanediols liquid mixtures at different temperatures, experimental measurements and modeling	
rhol	776.00	kg/m3	298.15	Thermodynamic and transport properties of acetonitrile + alkanediols liquid mixtures at different temperatures, experimental measurements and modeling	

rhol	771.00	kg/m3	303.15	Thermodynamic and transport properties of acetonitrile + alkanediols liquid mixtures at different temperatures, experimental measurements and modeling	
rhol	782.00	kg/m3	293.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures	
rhol	760.16	kg/m3	313.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	760.00	kg/m3	313.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures	
rhol	782.12	kg/m3	293.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	

rhol	776.82	kg/m3	298.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	
rhol	771.52	kg/m3	303.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	
rhol	766.21	kg/m3	308.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	
rhol	760.90	kg/m3	313.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	
rhol	755.59	kg/m3	318.15	Densities, ultrasonic speeds, excess and partial molar properties of binary mixtures of acetonitrile with some alkyl methacrylates at temperatures from 293.15 K to 318.15 K	

rhol	798.12	kg/m3	278.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	792.79	kg/m3	283.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	787.44	kg/m3	288.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	782.06	kg/m3	293.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	776.66	kg/m3	298.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	771.23	kg/m3	303.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents
rhol	765.77	kg/m3	308.15	Thermodynamic evidence for nano-heterogeneity in solutions of the macrocycle C-butylresorcin[4]arene in non-aqueous solvents

rhol	776.68	kg/m3	298.15	Exploration of Solvation Consequence of Ionic Liquid [Bu4PCH3SO3] in Various Solvent Systems by Conductance and FTIR Study
rhol	776.51	kg/m3	298.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model
rhol	771.06	kg/m3	303.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model
rhol	765.59	kg/m3	308.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model
rhol	760.10	kg/m3	313.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model
rhol	754.56	kg/m3	318.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model

rhol	748.99	kg/m3	323.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model
rhol	776.71	kg/m3	298.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa
rhol	771.29	kg/m3	303.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa
rhol	765.83	kg/m3	308.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa

rhol	760.34	kg/m3	313.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa
rhol	754.82	kg/m3	318.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa
rhol	749.25	kg/m3	323.15	Excess Molar Volumes, Excess Molar Isentropic Compressibilities, Viscosity Deviations, and Activation Parameters for 1-Ethyl-3-methyl-imidazolium Trifluoro-methanesulfonate + Dimethyl Sulfoxide and/or Acetonitrile at T = 298.15 to 323.15 K and P = 0.1 MPa
rhol	787.33	kg/m3	288.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile

rhol	781.96	kg/m3	293.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	776.61	kg/m3	298.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	771.18	kg/m3	303.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	765.73	kg/m3	308.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile

rhol	760.25	kg/m3	313.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	754.72	kg/m3	318.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	749.16	kg/m3	323.15	Density, Electrical Conductivity, Dynamic Viscosity, Excess Properties, and Molecular Interactions of Ionic Liquid 1-Cyanopropyl-3-methylimidazolium Tetrafluoroborate and Binary System with Acetonitrile
rhol	787.58	kg/m3	288.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	781.89	kg/m3	293.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile

rhol	776.52	kg/m3	298.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	771.12	kg/m3	303.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	765.83	kg/m3	308.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	760.36	kg/m3	313.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	755.14	kg/m3	318.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile

rhol	749.44	kg/m3	323.15	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile
rhol	785.71	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
rhol	776.71	kg/m3	298.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide
rhol	771.29	kg/m3	303.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide
rhol	765.83	kg/m3	308.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide

rhol	760.34	kg/m3	313.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide
rhol	754.82	kg/m3	318.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide
rhol	749.25	kg/m3	323.15	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide
rhol	787.31	kg/m3	288.13	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	787.31	kg/m3	288.13	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile

rhol	787.31	kg/m3	288.13	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	787.31	kg/m3	288.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	781.93	kg/m3	293.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	781.93	kg/m3	293.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	781.93	kg/m3	293.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile

rhol	781.93	kg/m3	293.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	776.53	kg/m3	298.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	776.53	kg/m3	298.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	776.53	kg/m3	298.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile
rhol	776.53	kg/m3	298.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile

rhol	771.10	kg/m3	303.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	771.11	kg/m3	303.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	771.10	kg/m3	303.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	771.11	kg/m3	303.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	765.64	kg/m3	308.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	

rhol	765.66	kg/m3	308.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	765.65	kg/m3	308.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
rhol	771.00	kg/m3	303.15	Thermophysical approach to understand the nature of molecular interactions and structural factor between methyl isobutyl ketone and organic solvents mixtures	
rhol	760.18	kg/m3	313.15	Thermodynamic Properties of Inorganic Salts in Nonaqueous Solvents. II. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Perchlorates in Acetonitrile	
speedsl	1198.32	m/s	318.15	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T) (298.15 to 318.15) K	

speedsl	1258.73	m/s	303.15	Application of Prigogine Flory Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile
speedsl	1218.52	m/s	313.15	Application of Prigogine Flory Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile
speedsl	1319.14	m/s	288.15	Volumetric and Isentropic Compressibility Behavior of Ionic Liquid, 1-Propyl-3-Methylimidazolium Bromide in Acetonitrile, Dimethylformamide, and Dimethylsulfoxide at T = (288.15 to 308.15) K
speedsl	1299.01	m/s	293.15	Volumetric and Isentropic Compressibility Behavior of Ionic Liquid, 1-Propyl-3-Methylimidazolium Bromide in Acetonitrile, Dimethylformamide, and Dimethylsulfoxide at T = (288.15 to 308.15) K

speedsl	1278.77	m/s	298.15	Volumetric and Isentropic Compressibility Behavior of Ionic Liquid, 1-Propyl-3-Methylimidazolium Bromide in Acetonitrile, Dimethylformamide, and Dimethylsulfoxide at T = (288.15 to 308.15) K
speedsl	1258.51	m/s	303.15	Volumetric and Isentropic Compressibility Behavior of Ionic Liquid, 1-Propyl-3-Methylimidazolium Bromide in Acetonitrile, Dimethylformamide, and Dimethylsulfoxide at T = (288.15 to 308.15) K
speedsl	1238.40	m/s	308.15	Volumetric and Isentropic Compressibility Behavior of Ionic Liquid, 1-Propyl-3-Methylimidazolium Bromide in Acetonitrile, Dimethylformamide, and Dimethylsulfoxide at T = (288.15 to 308.15) K
speedsl	1239.00	m/s	308.15	Ultrasonic studies on binary mixtures of some aromatic ketones with acetonitrile at T = 308.15 K
speedsl	1278.62	m/s	298.15	Application of Prigogine Flory Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile

speedsl	1278.28	m/s	298.15	Thermodynamic Properties of Inorganic Salts in Nonaqeous Solvents. IV. Apparent Molar Volumes and Compressibilities of Divalent Transition-Metal Bromides and Chlorides in Acetonitrile
speedsl	1238.66	m/s	308.15	Application of Prigogine Flory Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile
speedsl	1281.30	m/s	298.15	Compressibility Studies of Binary Solutions Involving Water as a Solute in Nonaqueous Solvents at T) 298.15 K
speedsl	1198.32	m/s	318.15	Application of Prigogine Flory Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile
speedsl	1278.62	m/s	298.15	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T) (298.15 to 318.15) K

speedsl	1258.73	m/s	303.15	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T) (298.15 to 318.15) K
speedsl	1238.66	m/s	308.15	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T) (298.15 to 318.15) K
speedsl	1218.52	m/s	313.15	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T) (298.15 to 318.15) K
srf	0.03	N/m	283.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile
srf	0.03	N/m	298.15	Surface Tensions and the Gibbs Excess Surface Concentration of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide with Tetrahydrofuran and Acetonitrile
srf	0.03	N/m	313.15	Surface Tensions and the Gibbs Excess Surface Concentration of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide with Tetrahydrofuran and Acetonitrile

srf	0.03	N/m	293.15	Surface Tensions and the Gibbs Excess Surface Concentration of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide with Tetrahydrofuran and Acetonitrile
srf	0.03	N/m	293.20	KDB
srf	0.03	N/m	278.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile
srf	0.03	N/m	303.13	Surface Tensions and the Gibbs Excess Surface Concentration of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide with Tetrahydrofuran and Acetonitrile
srf	0.03	N/m	288.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile
srf	0.03	N/m	293.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile
srf	0.03	N/m	298.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile
srf	0.03	N/m	303.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile

srf	0.03	N/m	308.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile	
srf	0.03	N/m	313.15	Application of the Extended Langmuir Model for the Determination of Lyophobicity of 1-Propanol in Acetonitrile	
srf	0.03	N/m	283.15	Surface tension of non-ideal binary and ternary liquid mixtures at various temperatures and p = 81.5 kPa	
srf	0.03	N/m	298.15	Surface tension of non-ideal binary and ternary liquid mixtures at various temperatures and p = 81.5 kPa	
srf	0.03	N/m	308.15	Surface tension of non-ideal binary and ternary liquid mixtures at various temperatures and p = 81.5 kPa	
srf	0.03	N/m	293.15	Thermodynamic surface properties of [BMIm][NTf2] or [EMIm][NTf2] binary mixtures with tetrahydrofuran, acetonitrile or dimethylsulfoxide	
srf	0.03	N/m	298.15	Thermodynamic surface properties of [BMIm][NTf2] or [EMIm][NTf2] binary mixtures with tetrahydrofuran, acetonitrile or dimethylsulfoxide	

srf	0.03	N/m	303.15	Thermodynamic surface properties of [BMIm][NTf2] or [EMIm][NTf2] binary mixtures with tetrahydrofuran, acetonitrile or dimethylsulfoxide
srf	0.03	N/m	308.15	Thermodynamic surface properties of [BMIm][NTf2] or [EMIm][NTf2] binary mixtures with tetrahydrofuran, acetonitrile or dimethylsulfoxide
srf	0.03	N/m	313.15	Thermodynamic surface properties of [BMIm][NTf2] or [EMIm][NTf2] binary mixtures with tetrahydrofuran, acetonitrile or dimethylsulfoxide
srf	0.03	N/m	298.15	Physicochemical properties of two 1-alkyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide ionic liquids and of binary mixtures of 1-butyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide with methanol or acetonitrile
srf	0.03	N/m	288.15	Physicochemical properties of two 1-alkyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide ionic liquids and of binary mixtures of 1-butyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide with methanol or acetonitrile
srf	0.03	N/m	308.15	Physicochemical properties of two 1-alkyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide ionic liquids and of binary mixtures of 1-butyl-1-methylpyrrolidinium bis[(trifluoromethyl)sulfonyl]imide with methanol or acetonitrile

srf	0.03	N/m	308.15	Surface Tensions and the Gibbs Excess Surface Concentration of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide with Tetrahydrofuran and Acetonitrile
srf	0.03	N/m	298.15	Experimental Data and Correlation of Surface Tensions of the Binary and Ternary Systems of Water + Acetonitrile + 2-Propanol at 298.15 K and Atmospheric Pressure
srf	0.03	N/m	293.15	Density and Surface Tension of Binary Mixtures of Acetonitrile + 1-Alkanol at 293.15 K
svapt	111.44	J/mol×K	298.15	NIST Webbook
tcondl	0.18	W/m×K	313.15	Liquid Thermal Conductivities of Acetonitrile, Diethyl Sulfide, Hexamethyleneimine, Tetrahydrothiophene, and Tetramethylethylenediamine
tcondl	0.21	W/m×K	273.15	Liquid Thermal Conductivities of Acetonitrile, Diethyl Sulfide, Hexamethyleneimine, Tetrahydrothiophene, and Tetramethylethylenediamine
tcondl	0.20	W/m×K	293.15	Liquid Thermal Conductivities of Acetonitrile, Diethyl Sulfide, Hexamethyleneimine, Tetrahydrothiophene, and Tetramethylethylenediamine

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.53562e+01
Coeff. B	-3.64591e+03
Coeff. C	-1.52630e+01
Temperature range (K), min.	229.32
Temperature range (K), max.	545.50

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	4.10590e+01
Coeff. B	-4.99962e+03
Coeff. C	-3.88171e+00
Coeff. D	3.51596e-06
Temperature range (K), min.	229.32
Temperature range (K), max.	545.50

Datasets

Refractive index (Na D-line)

Pressure, kPa - Liquid	Temperature, K - Liquid	Refractive index (Na D-line) - Liquid
81.50	298.15	1.3417
Reference		*https://www.doi.org/10.1021/je700645p*

Mass density, kg/m3

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m3 - Liquid
200.00	313.15	755.0
200.00	353.15	710.0
600.00	313.15	755.0

600.00	353.15	711.0
600.00	393.15	664.0
1000.00	313.15	756.0
1000.00	353.15	711.0
1000.00	393.15	664.0
1000.00	433.15	611.0
1400.00	313.15	756.0
1400.00	353.15	711.0
1400.00	393.15	665.0
1400.00	433.15	612.0
1800.00	313.15	757.0
1800.00	353.15	712.0
1800.00	393.15	666.0
1800.00	433.15	614.0
1800.00	473.15	550.0
2000.00	313.15	757.0
2000.00	353.15	713.0
2000.00	393.15	666.0
2000.00	433.15	614.0
2000.00	473.15	552.0

Reference *https://www.doi.org/10.1021/je900048r*

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A novel static analytical apparatus for	https://www.doi.org/10.1016/j.fluid.2012.11.008
Equilibrium solubility of dinitolmide in	https://www.doi.org/10.1016/j.jct.2019.01.013
Determination of the thermodynamic	https://www.doi.org/10.1016/j.jct.2018.09.023
Solubility Modeling and Mixing	https://www.doi.org/10.1021/acs.jced.7b00542
Solubility Determination and Modeling	https://www.doi.org/10.1021/acs.jced.6b00421
Mixed Solvents of (Acetone, Ethyl	https://www.doi.org/10.1021/acs.jced.8b00120
Separation of water/butan-1-ol/acetone	https://www.doi.org/10.1016/j.jct.2017.10.003
Diffusion Coefficients of	https://www.doi.org/10.1021/je800817b
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Solubility of Artemisinin in Seven	https://www.doi.org/10.1021/je800515w
Solubility, Model Correlation, and	https://www.doi.org/10.1021/acs.jced.8b01226

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Vapor-Liquid Equilibria on Seven Binary Systems: Ethylene Oxide + 2-Methylpropane; Acetophenone + Phenol; cis-1,3-Dichloropropene + 1,2-Dichloropropane; 1,5-Hexadiene + Allyl Chloride; Isopropyl Acetate + Acetonitrile; Vinyl Chloride + Methyl Chloride; and 1,4-Butanediol + γ-Butyrolactone:	https://www.doi.org/10.1021/je050317k
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Thermodynamics and selectivity of separation based on activity coefficients at infinite dilution of various solutes in 1-allyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	https://www.doi.org/10.1016/j.jct.2016.06.028
Solubility determination and thermodynamic modelling of [illegible] in [illegible] organic solvents from T = (278.15 to 318.15) K	https://www.doi.org/10.1016/j.jct.2016.07.013
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Thermodynamic models for determination of the solubility of [illegible] in methanol plus N,N-dimethylformamide, isopropyl alcohol) binary solvent mixtures:	https://www.doi.org/10.1016/j.jct.2015.02.002
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Solubility Study and Mixing Property of	https://www.doi.org/10.1021/acs.jced.9b00497
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Separation of binary mixtures	https://www.doi.org/10.1016/j.jct.2017.11.017
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Density and speed of sound of lithium	https://www.doi.org/10.1016/j.jct.2007.04.006
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Ultrasonic studies on binary mixtures	https://www.doi.org/10.1016/j.jct.2006.01.009
Phase diagrams of acetonitrile or	https://www.doi.org/10.1016/j.jct.2012.03.026
Phase Separation Conditions for	https://www.doi.org/10.1021/je1003115
Physicochemical properties of two	https://www.doi.org/10.1016/j.jct.2013.12.009
Thermodynamic Models for	https://www.doi.org/10.1021/acs.jced.9b00172
EXCESS MOLAR ENTHALPIES OF	https://www.doi.org/10.1016/j.tca.2010.01.005
Equilibrium for	https://www.doi.org/10.1021/je301204w
Isobaric Vapor–Liquid Equilibrium of	https://www.doi.org/10.1021/acs.jced.9b00015
Measurement and Correlation of the	https://www.doi.org/10.1021/acs.jced.9b00696
Thermodynamics of solubility of	https://www.doi.org/10.1016/j.fluid.2013.05.002
organic solvents: Experimental	https://www.doi.org/10.1016/j.fluid.2011.09.027
Thermodynamic study of solubility for	https://www.doi.org/10.1016/j.jct.2017.04.014
Volumetric Properties of the Ionic	https://www.doi.org/10.1007/s10765-008-0395-z
Bubble point measurements of binary	https://www.doi.org/10.1016/j.fluid.2010.08.010
Thermodynamics and activity	https://www.doi.org/10.1016/j.jct.2014.04.024
Thermodynamic models for	https://www.doi.org/10.1016/j.fluid.2015.08.009
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The study of activity coefficients at	https://www.doi.org/10.1016/j.jct.2013.09.007
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Co-solvency phenomenon and	https://www.doi.org/10.1016/j.jct.2019.06.018
In-situ measurement of liquid–liquid	https://www.doi.org/10.1016/j.fluid.2017.01.027
Thermochemical Data and Correlation of	https://www.doi.org/10.1021/je1001329
Vapor Pressures for the Acetonitrile +	https://www.doi.org/10.1021/je800557h
Viscosity, Density, Speed of Sound,	https://www.doi.org/10.1021/je700338t
Thermodynamic Functions for	https://www.doi.org/10.1021/acs.jced.7b00316
Solubility of 1-Hydroxybenzotriazole in	https://www.doi.org/10.1021/acs.jced.9b00258
Solid–Liquid Equilibrium of	https://www.doi.org/10.1021/acs.jced.8b00780
Solubilities of Some	https://www.doi.org/10.1021/je060138i
Solubility of Tianeptine Hydrogen	https://www.doi.org/10.1021/je800838w
Measurements of activity coefficients	https://www.doi.org/10.1016/j.fluid.2018.11.011
Two Quaternary Ammonium-Based Ionic	https://www.doi.org/10.1021/je0201727
Solid–Liquid Phase Equilibrium of	https://www.doi.org/10.1021/je5010565

Application of trihexyltetradecylphosphonium dicyanamide ionic liquid for various

Solubility Determination and Thermodynamic Modeling of

Activity Coefficients at Infinite Dilution of Organic Solutes and Water in

Joback method

Tributylethylphosphonium Diethylphosphate Using Gas Liquid

Solubility Study and Mixing Property of

Solubilities of

Separation of binary mixtures

Solubility of Candesartan Cilexetil in

Density and speed of sound of lithium

A model for excess volumes of salty

Ultrasonic studies on binary mixtures

Phase diagrams of acetonitrile or

Phase Separation Conditions for

Physicochemical properties of two

Thermodynamic Models for

EXCESS MOLAR ENTHALPIES OF

Equilibrium for

Isobaric Vapor–Liquid Equilibrium of

Measurement and Correlation of the

Thermodynamics of solubility of

organic solvents: Experimental

Thermodynamic study of solubility for

Volumetric Properties of the Ionic

Bubble point measurements of binary

Thermodynamics and activity

Thermodynamic models for

Experimental solubility of diosgenin

The study of activity coefficients at

Crippen Method:

Thermodynamic Properties of

Co-solvency phenomenon and

In-situ measurement of liquid–liquid

Thermochemical Data and Correlation of

Vapor Pressures for the Acetonitrile +

Viscosity, Density, Speed of Sound,

Thermodynamic Functions for

Solubility of 1-Hydroxybenzotriazole in

Solid–Liquid Equilibrium of

Solubilities of Some

Solubility of Tianeptine Hydrogen

Measurements of activity coefficients

Two Quaternary Ammonium-Based Ionic

Solid–Liquid Phase Equilibrium of

Phosphoramidic acid, N,N'-1,2-Ethanediylbis-P,P,P',P'-tetraphenyl Ester in Selected Solvents:

KDB Pure (Korean Thermophysical Properties Databank):	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1386
New ionic liquid [P4,4,4,4][NTf2] in bio-butanol extraction or investigation	https://www.doi.org/10.1016/j.fluid.2018.07.028
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thermodynamic models for solid liquid	https://www.doi.org/10.1016/j.jct.2013.03.018
Probing subsistence of ion pair and triple ion of an ionic salt in liquid	https://www.doi.org/10.1021/acs.jced.9b00458
and mixture organic solvents!	https://www.doi.org/10.1016/j.jct.2019.06.007
Binary equilibrium solubility of	https://www.doi.org/10.1021/acs.jced.7b00585
environments by means of	https://www.doi.org/10.1016/j.fluid.2018.06.013
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The dissolution behavior and	https://www.doi.org/10.1021/je100890f
Experimental Determination, Model	https://www.doi.org/10.1021/je700026d
apparent thermodynamic analysis of	https://www.doi.org/10.1016/j.jct.2018.01.003
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Synthesis and Solubility of	https://www.doi.org/10.1021/acs.jced.6b00816
5,5-Dimethyl-2-(phenyl(phenylamino)methyl)-1,3,2-dioxaphosphinane	https://www.doi.org/10.1021/je060001s
2-oxide in Selected Solvents between	https://www.doi.org/10.1021/je500806u
278.15 K and 347.15 K:	https://www.doi.org/10.1016/j.jct.2013.01.007
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Solubility of the Ionic Liquid	https://www.doi.org/10.1021/je5010033
1-Butyl-1-methylpyrrolidinium	https://www.doi.org/10.1021/acs.jced.7b00489
Solid−Liquid Phase Equilibrium and	https://www.doi.org/10.1021/acs.jced.9b00703
Thermodynamic Analysis of	https://www.doi.org/10.1021/je400625f
Solubilities of	https://www.doi.org/10.1021/je1006289
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for the Binary Mixtures of Formamide	https://www.doi.org/10.1016/j.jct.2011.11.007
Different Pure Solvents and Binary	https://www.doi.org/10.1021/je500107y
Mixtures of Tetrahydrofuran +	https://www.doi.org/10.1016/j.jct.2012.08.007
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Solubility Behavior, Dissolution	https://www.doi.org/10.1021/acs.jced.7b00005
Properties, and Molecular	https://www.doi.org/10.1021/je0602723
Solubility of Diphenoxylate in	https://www.doi.org/10.1016/j.fluid.2013.08.022
Thermodynamic Properties of Olaparib	https://www.doi.org/10.1021/je900177h
in Selected Organic Solvents and	https://www.doi.org/10.1016/j.jct.2017.01.004
Prediction of Its Solubility	https://www.doi.org/10.1016/j.fluid.2017.12.034
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Mixtures of Methanol, 1-Propanol,	https://www.doi.org/10.1016/j.jct.2019.07.006
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Acetone, and Acetonitrile:	https://www.doi.org/10.1021/acs.jced.7b00898
Liquid−liquid equilibrium data for	
ternary mixtures composed of	
Thermodynamic functions for solubility	
of 3-nitrobenzoic acid in nine organic	
solvents from T = (283.15 to 318.15) K	
P,P′-Di-1,4-phenylene	
and Apparent Thermodynamic	
Properties of Solutes in the	
Organic Solvents:	
1-Hexyl-3-methylimidazolium	
Bis(trifluoromethylsulfonyl)imide Ionic	
Measurement and Correlation of Octane,	
Solubility of Tetrabutylammonium Chloride	
Ethyl Acetate) at 279.15 K, 298.15 K,	
and 318.15 K	
Phase Behavior of Binary Mixtures	
Containing Succinic Acid or Its Esters:	
Experimental Study of Thermodynamic	
Properties of Mixtures Containing Ionic	
Electrical Conductivity of Solutions of	
Ionic Liquids with Methanol, Ethanol,	
and Water from 288 K to 348 K.	
Ionic interplay of lithium salts in binary	
mixtures of acetonitrile and diethyl	
carbonate probed by physicochemical	
approach.	
Acetonitrile, Acetone, Ethyl Acetate,	
and Water from 288 K to 348 K.	
Solubilities of six lithium salts in five	
non-aqueous solvents and in a few of	
their binary mixtures.	
Copper(I), Silver(I), and	
Measurement and correlation of	
isobaric vapour-liquid equilibrium for	
Densities, Ultrasonic Speeds, Excess	
and partial molar properties of binary	
mixtures of 1-butyl-3-methylimidazolium	
Solubility Determination and	
Thermodynamic Properties of	
Density, Electrical Conductivity,	
Dynamic Viscosity, Excess Properties,	
and Molecular Interactions of Ionic	
Liquid	
1-Cyanopropyl-3-methylimidazolium	
Tetrafluoroborate and Binary System	
with Acetonitrile:	

Solubility Determination and Modeling of p-Nitrobenzamide Dissolved in Twelve Neat Solvents from 283.15 to 328.15 K:	https://www.doi.org/10.1021/acs.jced.9b00065
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Solubility of 2-Chlorophenylacetic Acid in 12 Pure Solvents from T = (273.15/283.15 to 318.15) K: Determination and Modeling:	https://www.doi.org/10.1021/acs.jced.8b00139
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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
dm:	Dipole Moment
dvisc:	Dynamic viscosity
ea:	Electron affinity
fll:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed 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
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
nfpas:	NFPA Safety Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
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 conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility

zra: Rackett Parameter