2-Pyrrolidinone, 1-methyl-

Other names:	1-Methyl-2-Pyrrolidinone
	1-Methyl-2-pyrrolidone
	1-Methyl-5-pyrrolidinone
	1-Methylazacyclopentan-2-one
	1-Methylazacyclopentane-2-one
	1-Methylpyrrolidinone
	1-Methylpyrrolidone
	1-methylpyrrolidin-2-one
	2-Pyrrolidone, 1-methyl-
	Agsolex 1
	M-Pyrol
	Methylpyrrolidone
	Micropure ultra
	N 0131
	N-Methyl-2-pyrrolidinone
	N-Methyl-2-pyrrolidone
	N-Methyl-gamma-butyrolactam
	N-Methyl-«alpha»-pyrrolidinone
	N-Methyl-«alpha»-pyrrolidone
	N-Methyl-«gamma»-butyrolactam
	N-Methyl-Â«alphaÂ»-pyrrolidinone
	N-Methyl-Â«alphaÂ»-pyrrolidone
	N-Methyl-Â«gammaÂ»-butyrolactam
	N-Methylpyrrolid-2-one
	N-Methylpyrrolidinone
	N-Methylpyrrolidone
	N-Methylpyrrolidone-(2)
	N-methyl-.alpha.-pyrrolidinone
	N-methyl-.alpha.-pyrrolidone
	N-methyl-.gamma.-butyrolactam
	N-methylpyrrolidin-2-one
	NMP
	NSC 4594
Inchi:	InChI=1S/C5H9NO/c1-6-4-2-3-5(6)7/h2-4H2,1H3
InchiKey:	SECXISVLQFMRJM-UHFFFAOYSA-N
Formula:	C5H9NO
SMILES:	CN1CCCC1=O
Mol. weight [g/mol]:	99.13
CAS:	872-50-4

Physical Properties

Property code	Value	Unit	Source
affp	923.50	kJ/mol	NIST Webbook
basg	891.60	kJ/mol	NIST Webbook
chl	-2988.05 ± 0.46	kJ/mol	NIST Webbook
chl	-2992.00 ± 0.40	kJ/mol	NIST Webbook
chl	-2994.00	kJ/mol	NIST Webbook
hf	-210.85 ± 0.56	kJ/mol	NIST Webbook
hfl	-265.73 ± 0.54	kJ/mol	NIST Webbook
hfus	11.04	kJ/mol	Thermodynamics of binary mixtures of N-methyl-2-pyrrolidinone and ketone. Experimental results and modelling of the solid-liquid equilibrium and vapou-liquid equilibrium. The Modified UNIFAC (Do) model characterization
hfus	11.04	kJ/mol	(Solid + liquid) phase equilibria of binary mixtures containing N-methyl-2-pyrrolidinone and ethers at atmospheric pressure
hvap	54.88 ± 0.13	kJ/mol	NIST Webbook
hvap	61.90	kJ/mol	NIST Webbook
ie	9.17	eV	NIST Webbook
log10ws	1.00		Aqueous Solubility Prediction Method
logp	0.239		Crippen Method
mcvol	82.000	ml/mol	McGowan Method
pc	4520.00 ± 25.00	kPa	NIST Webbook
rhoc	319.20 ± 5.95	kg/m3	NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1045.00		NIST Webbook
rinpol	1045.50		NIST Webbook
rinpol	1002.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1043.00		NIST Webbook
rinpol	1034.00		NIST Webbook
rinpol	1042.00		NIST Webbook
rinpol	1009.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1034.00		NIST Webbook
rinpol	1045.50		NIST Webbook

rinpol	1002.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1652.00		NIST Webbook
ripol	1679.00		NIST Webbook
ripol	1662.00		NIST Webbook
ripol	1646.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1646.00		NIST Webbook
ripol	1665.00		NIST Webbook
ripol	1660.00		NIST Webbook
tb	476.05	K	Separation of azeotropic mixture (2, 2, 3, 3-Tetrafluoro-1-propanol + water) by extractive distillation: Entrainers selection and vapour-liquid equilibrium measurements
tb	475.29	K	Measurements and correlation of saturated vapor pressures of diethoxy(methyl)(o-tolyl)silane, diethoxy(methyl)(m-tolyl)silane and diethoxy(methyl)(p-tolyl)silane
tb	475.44	K	Separation of azeotrope (allyl alcohol + water): Isobaric vapour-liquid phase equilibrium measurements and extractive distillation
tb	477.01	K	Isobaric vapor liquid equilibria for water + acetic acid + (N-methyl pyrrolidone or N-methyl acetamide)
tb	475.45	K	Vapor-Liquid Equilibria and Excess Molar Enthalpies for N-Methyl-2-pyrrolidone with Chloroethanes and Chloroethenes
tb	475.20	K	NIST Webbook
tc	721.70 ± 0.50	K	NIST Webbook
tc	721.80 ± 0.40	K	NIST Webbook
tf	249.48	K	Aqueous Solubility Prediction Method
tf	249.68	K	(Solid + liquid) phase equilibria and solid-compound formation in (N-methyl-2-pyrrolidinone + phenol, or 3,5-dimethylphenol)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	174.83	J/mol×K	298.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa
cpl	307.80	J/mol×K	298.00	NIST Webbook
cpl	412.40	J/mol×K	298.15	NIST Webbook
cpl	178.00	J/mol×K	353.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	177.00	J/mol×K	348.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	176.00	J/mol×K	343.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K

cpl	175.00	J/mol×K	338.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	174.00	J/mol×K	333.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	172.00	J/mol×K	328.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	170.00	J/mol×K	323.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	169.00	J/mol×K	318.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K

cpl	168.00	J/mol×K	313.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	167.00	J/mol×K	308.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	166.00	J/mol×K	303.15	Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K
cpl	166.92	J/mol×K	303.15	Excess heat capacities of 1-methyl pyrrolidin-2-one and pyridine orpicolines mixtures
cpl	166.22	J/mol×K	298.15	Excess heat capacities of 1-methyl pyrrolidin-2-one and pyridine orpicolines mixtures
cpl	165.44	J/mol×K	293.15	Excess heat capacities of 1-methyl pyrrolidin-2-one and pyridine orpicolines mixtures
cpl	167.21	J/mol×K	308.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids

cpl	179.94	J/mol×K	318.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa
cpl	166.92	J/mol×K	303.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids
cpl	166.22	J/mol×K	298.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids
cpl	165.44	J/mol×K	293.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids
cpl	189.27	J/mol×K	348.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa
cpl	185.78	J/mol×K	338.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa
cpl	182.77	J/mol×K	328.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa

cpl	177.38	J/mol×K	308.15	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15 K and 343.15 K and pressures up to 60 MPa
dvisc	0.0008080	Pa×s	353.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K
dvisc	0.0011600	Pa×s	323.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0013320	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0015540	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure

dvisc	0.0009860	Pa×s	338.15	Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures
dvisc	0.0011170	Pa×s	328.15	Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures
dvisc	0.0012100	Pa×s	318.15	Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures
dvisc	0.0016950	Pa×s	298.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.0010220	Pa×s	333.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0009080	Pa×s	343.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0021620	Pa×s	283.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0008130	Pa×s	353.15	Densities and Viscosities of Binary Mixtures of Ethylbenzene + N-Methyl-2-pyrrolidone, Ethylbenzene + Sulfolane, and Styrene + Octane from (303.15 to 353.15) K and Atmospheric Pressure
dvisc	0.0015544	Pa×s	303.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures

dvisc	0.0013321	Pa×s	313.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0011602	Pa×s	323.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0010222	Pa×s	333.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0009084	Pa×s	343.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0016830	Pa×s	298.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures
dvisc	0.0015580	Pa×s	303.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures

dvisc	0.0014700	Pa×s	308.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures
dvisc	0.0013370	Pa×s	313.10	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures
dvisc	0.0012480	Pa×s	318.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures
dvisc	0.0018110	Pa×s	293.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0016670	Pa×s	298.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0015430	Pa×s	303.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K

dvisc	0.0014370	Pa×s	308.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0013430	Pa×s	313.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0012580	Pa×s	318.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0011840	Pa×s	323.15	Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K
dvisc	0.0015210	Pa×s	303.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K
dvisc	0.0013190	Pa×s	313.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K

dvisc	0.0011740	Pa×s	323.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K
dvisc	0.0010330	Pa×s	333.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K
dvisc	0.0009140	Pa×s	343.15	Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K
dvisc	0.0013650	Pa×s	308.15	Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures
dvisc	0.0016630	Pa×s	298.15	Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures

dvisc	0.0009210	Pa×s	343.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0010350	Pa×s	333.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0011750	Pa×s	323.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0013220	Pa×s	313.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0016560	Pa×s	298.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0013100	Pa×s	313.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0013900	Pa×s	308.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone

dvisc	0.0014900	Pa×s	303.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0016600	Pa×s	298.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0008127	Pa×s	353.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0009080	Pa×s	343.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0010220	Pa×s	333.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0011600	Pa×s	323.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure

dvisc	0.0013320	Pa×s	313.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0015540	Pa×s	303.15	Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure
dvisc	0.0005320	Pa×s	423.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0005670	Pa×s	413.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0016080	Pa×s	303.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.0013830	Pa×s	313.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0012170	Pa×s	323.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0010810	Pa×s	333.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0010260	Pa×s	343.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0009360	Pa×s	353.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.0008310	Pa×s	363.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0007570	Pa×s	373.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0007110	Pa×s	383.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0006520	Pa×s	393.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0006060	Pa×s	403.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.0018220	Pa×s	293.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0008127	Pa×s	353.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
hfust	18.10	kJ/mol	248.50	NIST Webbook
hvapt	55.30	kJ/mol	295.00	NIST Webbook
hvapt	53.10	kJ/mol	351.50	NIST Webbook
hvapt	49.30	kJ/mol	403.00	NIST Webbook
hvapt	49.20	kJ/mol	419.00	NIST Webbook
hvapt	47.70	kJ/mol	408.00	NIST Webbook
hvapt	53.40	kJ/mol	408.00	NIST Webbook
hvapt	49.50	kJ/mol	427.50	NIST Webbook
pvap	25.96	kPa	427.56	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	3.44	kPa	373.09	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	3.46	kPa	373.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol

pvap	4.23	kPa	377.86	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	95.30	kPa	474.01	Activity Coefficients and Excess Gibbs Energies for Binary Mixtures of N-Methyl-2-pyrrolidone with Some Substituted Ethanols
pvap	40.00	kPa	441.80	Isobaric Vapor Liquid Equilibria for Binary Systems Comprising 1-Chloro-2-ethylhexane, 2-Ethyl-1-hexanol, p-Xylene, and N-Methylpyrrolidone (NMP) at 40.0 kPa
pvap	4.74	kPa	380.73	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	5.24	kPa	383.12	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	5.98	kPa	386.38	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	6.36	kPa	387.92	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	6.86	kPa	389.88	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane

pvap	7.78	kPa	393.04	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	10.29	kPa	400.46	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	11.62	kPa	403.85	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	12.87	kPa	406.68	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	13.96	kPa	408.96	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	15.22	kPa	411.42	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	16.50	kPa	413.77	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	18.28	kPa	416.81	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	20.97	kPa	420.94	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	23.65	kPa	424.65	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane

pvap	2.78	kPa	368.27	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	30.08	kPa	432.29	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	33.54	kPa	435.85	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	36.99	kPa	439.12	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	39.96	kPa	441.74	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	42.73	kPa	444.04	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	46.02	kPa	446.64	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	52.18	kPa	451.08	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	62.11	kPa	457.46	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane

pvap	99.40	kPa	475.72	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
pvap	88.70	kPa	471.15	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	81.20	kPa	467.66	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	2.19	kPa	363.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	1.82	kPa	359.26	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	1.34	kPa	353.15	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	41.30	kPa	442.88	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	1.30	kPa	352.48	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol

pvap	76.40	kPa	465.29	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	68.60	kPa	461.17	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	60.50	kPa	456.48	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	53.70	kPa	452.13	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	47.90	kPa	448.05	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	1.29	kPa	352.27	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
pvap	34.20	kPa	436.50	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	28.10	kPa	430.09	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols

pvap	3.60	kPa	373.15	Thermodynamics of binary mixtures containing N-methyl-2-pyrrolidinone VLE measurements for systems with ethers Comparison with the Mod. UNIFAC (Do) and DISQUAC models Predictions for VLE, GE m, HEm and SLE?
pvap	1.30	kPa	353.15	Thermodynamics of binary mixtures containing N-methyl-2-pyrrolidinone VLE measurements for systems with ethers Comparison with the Mod. UNIFAC (Do) and DISQUAC models Predictions for VLE, GE m, HEm and SLE?
pvap	0.50	kPa	333.15	Thermodynamics of binary mixtures containing N-methyl-2-pyrrolidinone VLE measurements for systems with ethers Comparison with the Mod. UNIFAC (Do) and DISQUAC models Predictions for VLE, GE m, HEm and SLE?
pvap	101.30	kPa	476.05	Separation of azeotropic mixture (2, 2, 3, 3-Tetrafluoro-1-propanol + water) by extractive distillation: Entrainers selection and vapour-liquid equilibrium measurements

pvap	95.30	kPa	474.01	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	2.22	kPa	363.36	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
rfi	1.46800		298.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone (NMP) + Water + Ethanol from T = (293.15 to 323.15) K
rfi	1.46960		293.10	Liquid liquid equilibria for n-alkanes (C12, C14, C17) + propylbenzene +NMP mixtures at temperatures between 298 and 328K
rfi	1.45590		323.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.45760		323.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K

rfi	1.46030	313.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.46210	313.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.46470	303.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.46640	303.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.46910	293.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K

rfi	1.47030	293.15	Vapor Liquid Equilibrium Data for 1-Methyl-2-Pyrrolidone + (1-Butanol or 1-Hexene or Water) Binary Mixtures
rfi	1.47060	293.15	Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethanolamine) from T = (293.15 to 323.15) K
rfi	1.46860	293.10	Liquid-Liquid Equilibria Measurements for Ternary System of Hexadecane + 1,3,5-Trimethylbenzene + N-Methyl-2-pyrrolidone
rfi	1.46860	293.10	Solubilities of 4-Carboxybenzaldehyde and 1,4-Benzenedicarboxylic Acid in N-Methyl-2-pyrrolidone in the Temperature Range from (343.2 to 468.2) K
rfi	1.46900	293.15	Experimental solubility for betulin and estrone in various solvents within the temperature range T = (293.2 to 328.2) K
rfi	1.46740	298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rfi	1.46740	298.15	Isobaric (vapour + liquid) equilibrium for N-methyl-2-pyrrolidone with branched alcohols

rfi	1.46770		298.15	A study of densities and volumetric properties of binary mixtures of N-methyl-2-pyrrolidone with xylene at different temperatures and atmospheric pressure
rfi	1.46770		293.10	Densities and volumetric properties of N-methyl-2-pyrrolidone with aromatic hydrocarbon at different temperature
rfi	1.46860		293.10	Extraction of pentylbenzene from high molar mass alkanes (C14 and C17) by N-methyl-2-pyrrolidone
rfi	1.46900		298.15	Experimental measurement of carbon dioxide solubility in 1-methylpyrrolidin-2-one (NMP) + 1-butyl-3-methyl-1H-imidazol-3-ium tetrafluoroborate ([bmim][BF4]) mixtures using a new static-synthetic cell
rfi	1.46876		298.15	Liquid liquid equilibria of lactam containing binary systems
rfi	1.46740		298.15	Excess volumes and excess enthalpies of N-methyl-2-pyrrolidone with branched alcohols
rhol	1019.46	kg/m3	308.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone

rhol	1028.23	kg/m3	298.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rhol	1023.46	kg/m3	303.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rhol	1018.66	kg/m3	308.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rhol	1027.91	kg/m3	298.15	Excess Molar Volumes and Kinematic Viscosities for Binary Mixtures of Dipropylene Glycol Monobutyl Ether and Dipropylene Glycol tert-Butyl Ether with 2-Pyrrolidinone, N-Methyl-2-pyrrolidinone, N,N-Dimethylformamide, and N,N-Dimethylacetamide at 298.15 K
rhol	1028.30	kg/m3	298.15	Density, Speed of Sound, and Viscosity of N-Methyl-2-pyrrolidone + Ethanolamine + Water from T = (293.15 to 323.15) K
rhol	1033.23	kg/m3	293.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents

rhol	1028.23	kg/m3	298.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rhol	1023.46	kg/m3	303.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rhol	1018.66	kg/m3	308.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rhol	1033.28	kg/m3	293.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rhol	1028.26	kg/m3	298.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rhol	1023.49	kg/m3	303.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rhol	1037.30	kg/m3	288.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1032.84	kg/m3	293.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1028.38	kg/m3	298.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone

rhol	1023.92	kg/m3	303.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1033.23	kg/m3	293.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rhol	1015.00	kg/m3	313.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1010.53	kg/m3	318.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1006.06	kg/m3	323.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rhol	1023.40	kg/m3	303.15	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones

rhol	1028.17	kg/m3	298.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1032.66	kg/m3	293.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1023.50	kg/m3	303.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhol	1028.30	kg/m3	298.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhol	1033.30	kg/m3	293.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhol	1028.23	kg/m3	298.15	Excess molar enthalpies for [emim][BF4] + pyrrolidin-2-one or 1-methyl pyrrolidin-2-one + pyridine or water mixtures
rhol	1025.90	kg/m3	298.15	Temperature dependence measurements and molecular interactions for ammonium ionic liquid with N-methyl-2-pyrrolidone
rhol	1019.03	kg/m3	308.15	Thermodynamic, transport, and spectroscopic studies for mixtures of isomeric butanediol and N-methyl-2-pyrrolidinone

rhol	1015.48	kg/m3	303.15	Application of Prigogine Flory Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone
rhol	1019.79	kg/m3	298.15	Application of Prigogine Flory Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone
rhol	1024.76	kg/m3	293.15	Application of Prigogine Flory Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone
rhol	1028.29	kg/m3	288.15	Application of Prigogine Flory Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone
rhol	1028.55	kg/m3	298.15	Excess enthalpies and isothermal (vapour + liquid) equilibria of (1-methyl-2-pyrrolidone + 1-chloroalkane or +,?-dichloroalkane) mixtures

rhol	1030.45	kg/m3	298.15	Experimental measurements and modelling of volumetric properties, refractive index and viscosity of binary systems of ethyl lactate with methyl ethyl ketone, toluene and n-methyl-2-pirrolidone at 288.15 323.15 K and atmospheric pressure. New UNIFAC VISCO and ASOG VISCO interaction parameters	
rhol	1006.06	kg/m3	323.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes	
rhol	1010.53	kg/m3	318.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes	
rhol	1015.00	kg/m3	313.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes	
rhol	1019.46	kg/m3	308.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes	

rhol	1023.93	kg/m3	303.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rhol	1028.38	kg/m3	298.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rhol	1032.84	kg/m3	293.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rhol	1037.30	kg/m3	288.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rhol	1018.00	kg/m3	308.00	Densities, ultrasonic speeds and refractive indices of phenetole with N-methyl-2-pyrrolidone, N,N-dimethylformamide and tetrahydrofuran binary mixtures at different temperatures
rhol	1022.00	kg/m3	303.00	Densities, ultrasonic speeds and refractive indices of phenetole with N-methyl-2-pyrrolidone, N,N-dimethylformamide and tetrahydrofuran binary mixtures at different temperatures

rhol	1026.00	kg/m3	298.00	Densities, ultrasonic speeds and refractive indices of phenetole with N-methyl-2-pyrrolidone, N,N-dimethylformamide and tetrahydrofuran binary mixtures at different temperatures
rhol	1004.79	kg/m3	323.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhol	1013.72	kg/m3	313.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhol	1018.18	kg/m3	308.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhol	1022.64	kg/m3	303.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhol	1027.10	kg/m3	298.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs

rhol	1005.89	kg/m3	323.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1010.20	kg/m3	318.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1014.74	kg/m3	313.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1019.49	kg/m3	308.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhol	1009.25	kg/m3	318.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhol	1023.60	kg/m3	303.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
speedsl	1565.52	m/s	293.15	Thermodynamic and Topological Studies of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + Pyrrolidin-2-one and 1-Methyl-pyrrolidin-2-one Mixtures

speedsl	1478.00	m/s	318.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.	
speedsl	1501.00	m/s	313.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.	
speedsl	1526.40	m/s	308.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.	
speedsl	1552.80	m/s	303.15	Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.	
speedsl	1508.00	m/s	308.15	Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at T = 308.15 K	

speedsl	1546.00	m/s	298.15	Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at T = 308.15 K
speedsl	1531.45	m/s	298.15	Isentropic compressibilities of (amide + water) mixtures: A comparative study
speedsl	1546.02	m/s	298.15	Thermodynamic and Topological Studies of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + Pyrrolidin-2-one and 1-Methyl-pyrrolidin-2-one Mixtures
speedsl	1527.24	m/s	303.15	Thermodynamic and Topological Studies of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + Pyrrolidin-2-one and 1-Methyl-pyrrolidin-2-one Mixtures
speedsl	1507.41	m/s	308.15	Thermodynamic and Topological Studies of 1-Ethyl-3-methylimidazolium Tetrafluoroborate + Pyrrolidin-2-one and 1-Methyl-pyrrolidin-2-one Mixtures
srf	0.04	N/m	293.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K

srf	0.04	N/m	303.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.04	N/m	313.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.04	N/m	323.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.04	N/m	298.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.04	N/m	287.80	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	297.81	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	307.85	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	317.85	Surface Tension of Pure Liquids and Binary Liquid Mixtures

srf	0.04	N/m	327.89	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	337.88	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	293.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	303.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	303.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	313.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K

srf	0.04	N/m	313.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	323.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	323.15	Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of N-Methyl-2-pyrrolidone + 1-Amino-2-propanol {or Bis(2-hydroxypropyl)amine} from T = (293.15 to 323.15) K
srf	0.04	N/m	277.84	Surface Tension of Pure Liquids and Binary Liquid Mixtures

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	354.70	K	1.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.37367e+01
Coeff. B	-3.14760e+03
Coeff. C	-1.30008e+02
Temperature range (K), min.	364.05
Temperature range (K), max.	503.60

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
288.15	100.00	1036.8
288.15	500.00	1036.9
288.15	1000.00	1037.2
288.15	1500.00	1037.4
288.15	2000.00	1037.7
288.15	2500.00	1037.9
288.15	3000.00	1038.2
288.15	3500.00	1038.4
288.15	4000.00	1038.7
288.15	4500.00	1038.9
288.15	5000.00	1039.2
288.15	5500.00	1039.4
288.15	6000.00	1039.6
288.15	6500.00	1039.9
288.15	7000.00	1040.2
288.15	7500.00	1040.4
288.15	8000.00	1040.7
288.15	8500.00	1041.0
288.15	9000.00	1041.2
288.15	9500.00	1041.4

288.15	10000.00	1041.7
288.15	10500.00	1042.0
288.15	11000.00	1042.2
288.15	11500.00	1042.5
288.15	12100.00	1042.7
288.15	12500.00	1042.9
288.15	13000.00	1043.1
288.15	13500.00	1043.4
288.15	14000.00	1043.6
288.15	14500.00	1043.8
288.15	15000.00	1044.1
288.15	15500.00	1044.3
288.15	16000.00	1044.5
288.15	16500.00	1044.8
288.15	17000.00	1045.0
288.15	17500.00	1045.2
288.15	18000.00	1045.4
288.15	18600.00	1045.7
288.15	19000.00	1046.0
288.15	19500.00	1046.2
288.15	20000.00	1046.4
298.15	100.00	1028.0
298.15	500.00	1028.1
298.15	1000.00	1028.4
298.15	1500.00	1028.7
298.15	2000.00	1028.9
298.15	2500.00	1029.2
298.15	3000.00	1029.4
298.15	3500.00	1029.7
298.15	4000.00	1030.0
298.15	4500.00	1030.2
298.15	5000.00	1030.5
298.15	5500.00	1030.7
298.15	5900.00	1031.0
298.15	6500.00	1031.3
298.15	6900.00	1031.5
298.15	7500.00	1031.8
298.15	8000.00	1032.0
298.15	8500.00	1032.3
298.15	9000.00	1032.5
298.15	9600.00	1032.9
298.15	10000.00	1033.1
298.15	10500.00	1033.3
298.15	11000.00	1033.6

298.15	11500.00	1033.8
298.15	12000.00	1034.1
298.15	12500.00	1034.3
298.15	13000.00	1034.6
298.15	13500.00	1034.8
298.15	14000.00	1035.1
298.15	14400.00	1035.3
298.15	14900.00	1035.5
298.15	15500.00	1035.8
298.15	16000.00	1036.0
298.15	16500.00	1036.3
298.15	17000.00	1036.5
298.15	17500.00	1036.7
298.15	17900.00	1037.0
298.15	18500.00	1037.2
298.15	19000.00	1037.4
298.15	19500.00	1037.7
298.15	20000.00	1037.9
308.15	100.00	1019.3
308.15	500.00	1019.5
308.15	1000.00	1019.8
308.15	1500.00	1020.0
308.15	2000.00	1020.3
308.15	2500.00	1020.6
308.15	3000.00	1020.9
308.15	3500.00	1021.1
308.15	4000.00	1021.4
308.15	4500.00	1021.6
308.15	5000.00	1021.8
308.15	5500.00	1022.2
308.15	6000.00	1022.4
308.15	6400.00	1022.6
308.15	7100.00	1023.0
308.15	7500.00	1023.1
308.15	8100.00	1023.5
308.15	8500.00	1023.7
308.15	9000.00	1024.0
308.15	9500.00	1024.3
308.15	10000.00	1024.6
308.15	10400.00	1024.8
308.15	11100.00	1025.1
308.15	11500.00	1025.3
308.15	12000.00	1025.5
308.15	12500.00	1025.8

308.15	13000.00	1026.0
308.15	13500.00	1026.3
308.15	14000.00	1026.5
308.15	14500.00	1026.8
308.15	15000.00	1027.0
308.15	15500.00	1027.3
308.15	16000.00	1027.5
308.15	16500.00	1027.7
308.15	17000.00	1028.0
308.15	17500.00	1028.3
308.15	18000.00	1028.5
308.15	18500.00	1028.7
308.15	19000.00	1029.0
308.15	19500.00	1029.2
308.15	20000.00	1029.4
318.15	100.00	1011.0
318.15	500.00	1011.1
318.15	1000.00	1011.4
318.15	1500.00	1011.7
318.15	2000.00	1012.1
318.15	2500.00	1012.4
318.15	3000.00	1012.7
318.15	3500.00	1012.9
318.15	4000.00	1013.2
318.15	4500.00	1013.5
318.15	5000.00	1013.8
318.15	5500.00	1014.0
318.15	6000.00	1014.4
318.15	6500.00	1014.6
318.15	7000.00	1014.9
318.15	7500.00	1015.2
318.15	8000.00	1015.5
318.15	8500.00	1015.8
318.15	9000.00	1016.0
318.15	9500.00	1016.3
318.15	10000.00	1016.6
318.15	10500.00	1016.9
318.15	11000.00	1017.3
318.15	11400.00	1017.6
318.15	12000.00	1017.8
318.15	12500.00	1018.0
318.15	12900.00	1018.3
318.15	13500.00	1018.5
318.15	14000.00	1018.8

318.15	14500.00	1019.1
318.15	15000.00	1019.4
318.15	15500.00	1019.7
318.15	16000.00	1019.9
318.15	16500.00	1020.2
318.15	17000.00	1020.4
318.15	17500.00	1020.7
318.15	18000.00	1021.0
318.15	18500.00	1021.3
318.15	19000.00	1021.5
318.15	19600.00	1021.9
318.15	20000.00	1022.0

Reference *https://www.doi.org/10.1021/je7003758*

Sources

Density, Speed of Sound, Refractive Index, Viscosity, Surface Tension, and Excess Volume of	https://www.doi.org/10.1021/je200121f
Solubility of 2-(4-Ethylbenzoyl)benzoic Acid in Eleven Organic Solvents	https://www.doi.org/10.1021/je700426k
Thermodynamics of binary mixtures containing N-methyl-2-pyrrolidinone	https://www.doi.org/10.1016/j.fluid.2005.06.017
Vapor−Liquid Equilibrium Measurements for Systems with Ethers. Comparison with the Mod-	https://www.doi.org/10.1021/je300542s
Liquid−Liquid Equilibria of Binary Mixtures of 1-Butyl-3-methylimidazolium	https://www.doi.org/10.1016/j.fluid.2005.01.012
Thermodynamic properties of NMP	https://www.doi.org/10.1016/j.jct.2008.08.003
Thermodynamic Properties and Crystal	https://www.doi.org/10.1021/je2009973
High-Pressure Vapor−Liquid Equilibria of Some Carbon Dioxide + Organic	https://www.doi.org/10.1021/je0498560
Solubility and Solvent Effect of	https://www.doi.org/10.1021/je800428r
Measurements and correlation of	https://www.doi.org/10.1021/acs.jced.9b00294
saturated vapor pressures of	https://www.doi.org/10.1016/j.fluid.2012.08.009
Solubility modeling and	https://www.doi.org/10.1016/j.jct.2019.06.025
thermodynamic aspect of d-aspartic	https://www.doi.org/10.1016/j.jct.2005.06.012
Determination and Modeling of	https://www.doi.org/10.1021/acs.jced.9b00659
Solubilities of 2,5-Furandicarboxylic Acid and 1,4-Benzenedicarboxylic Acid in	https://www.doi.org/10.1021/je049706p
Solubility of Formyl and Inf	https://www.doi.org/10.1021/je201128n
Clopidogrel Hydrogen Sulfate in Formic	https://www.doi.org/10.1016/j.fluid.2018.08.017
Activity Coefficients and Excess Gibbs	https://www.doi.org/10.1021/je3002078
Energies for Binary Mixtures of	https://www.doi.org/10.1021/je034073k
Solubility of Terephthalic Acid in	https://www.doi.org/10.1016/j.fluid.2015.03.042
solid-liquid phase equilibrium for	https://www.doi.org/10.1016/j.fluid.2017.12.035
Solubility of	https://www.doi.org/10.1021/acs.jced.9b00201
Excess Enthalpies and Isothermal	https://www.doi.org/10.1016/j.jct.2008.01.024
Vapor + Liquid Equilibria of	https://www.doi.org/10.1021/je049776w
Mixtures of p-Xylene with Cyclohexane,	
N-Methyl-2-pyrrolidone at Several	
Temperatures:	

Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO2 in the System at Elevated Pressures.	https://www.doi.org/10.1021/je200886j
Surface Tension and Interfacial Tension of Binary Organic Liquid Mixtures	https://www.doi.org/10.1021/je034062r
Surface Tension of Pure Liquids and Binary Liquid Mixtures:	https://www.doi.org/10.1021/je0201323
Experimental and theoretical study of CO2 solubility in N-methyl-2-pyrrolidone (NMP):	https://www.doi.org/10.1016/j.fluid.2013.12.019
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
(Solid + liquid) phase equilibria and solid-compound formation in (N-methyl-2-pyrrolidinone + phenol, or 3,5-dimethylphenol):	https://www.doi.org/10.1016/j.fluid.2005.03.027
Liquid-Liquid Equilibria Measurements for Ternary System of Hexadecane + 1,3,5-Trimethylbenzene + N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/je050513r
Molar Heat Capacity of Aqueous Sulfolane, 4-Formylmorpholine, 1-Methyl-2-pyrrolidinone, and Triethylene Glycol Dimethyl Ether Solutions from (303.15 to 353.15) K:	https://www.doi.org/10.1021/je800999s
High Pressure Phase Behavior of Carbon Dioxide + 1-Methyl-2-pyrrolidinone and Carbon Dioxide + 1-Ethyl-2-pyrrolidinone Systems:	https://www.doi.org/10.1021/je0301545
Solubility of chloroxine in aqueous co-solvent mixtures of N,N-dimethylformamide, dimethyl sulfoxide, N-methyl-2-pyrrolidone and 1,4-dioxane: Determination, solvent effect and preferential solvation analysis	https://www.doi.org/10.1016/j.jct.2019.07.001
Solubility of Dioxopromethazine Hydrochloride in Different Solvents:	https://www.doi.org/10.1021/je700453v
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Solubility Determination, Correlation, and Solute-Solvent Molecular Interactions of 5-Aminotetrazole in Various Pure Solvents:	https://www.doi.org/10.1021/acs.jced.9b00385
Solubility Measurement and Correlation for e-2,4,6,8,10,12-Hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane in Five Organic Solvents at Temperatures between 283.15 and 333.15 K and Different Chloralkane + Ethyl Acetate Binary Solvents at Temperatures between 283.15 and 323.15 K:	https://www.doi.org/10.1021/acs.jced.6b00664
Dortmund Data Bank Vapor-Liquid Equilibrium Data:	http://www.ddbst.com/en/EED/VLE/VLE%20Acetone%3BN-Methyl-2-pyrrolidone.php
Solubility of Acetylene in Alcohols and Ketones:	https://www.doi.org/10.1021/acs.jced.8b00126
Density, Speed of Sound, and Viscosity of N-Methyl-2-pyrrolidone + Ethanolamine + Water from T = (293.15 to 323.15) K:	https://www.doi.org/10.1021/je300742t
Surface Tension of Aqueous Solutions of Short N-Alkyl-2-pyrrolidinones:	https://www.doi.org/10.1021/je800589e
Measurement and Correlation of Isothermal Vapor Liquid Equilibrium of Fluoroethane + N,N-Dimethylacetamide, Fluoroethane + N-Methyl-2-pyrrolidone, and 1,1,1,2-Tetrafluoroethane + [illegible] Ether Systems:	https://www.doi.org/10.1021/je4007822
Excess Molar Volumes and Kinematic Viscosities for Binary Mixtures of [illegible] with 2-Pyrrolidinone, N-Methyl-2-pyrrolidinone, N,N-Dimethylformamide, and N,N-Dimethylacetamide at 298.15 K:	https://www.doi.org/10.1021/je049657g
Isentropic compressibilities of (amide + water) mixtures: A comparative study:	https://www.doi.org/10.1016/j.jct.2007.05.015
Excess molar volumes and excess isentropic compressibilities of mixtures containing [illegible] cyclic ethers and cyclic alkanes:	https://www.doi.org/10.1016/j.jct.2018.05.012
Thermodynamics of binary mixtures of N-methyl-2-pyrrolidinone and ketone. Experimental results and modelling of the solid-liquid equilibrium and vapour-liquid equilibrium. The Modified UNIFAC (Dortmund) model characterization:	https://www.doi.org/10.1016/j.jct.2004.11.007
Solubility of 1,1-Diamino-2,2-dinitroethylene in [illegible]	https://www.doi.org/10.1021/je900235s
Solubility of 3-methyl-4-nitrobenzoic acid in binary solvent mixtures of {(1,4-dioxane, N-methyl-2-pyrrolidone, N,N-dimethylformamide) + methanol}	https://www.doi.org/10.1016/j.jct.2016.10.019
Solubility determination and thermodynamic modeling of 3-methyl-4-nitrobenzoic acid in twelve organic solvents from T = (283.15 to 318.15) K:	https://www.doi.org/10.1016/j.jct.2016.07.023
Densities and Viscosities of the Binary Mixtures of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide with N-Methyl-2-pyrrolidone or Ethanol at T = (293.15 to 323.15) K:	https://www.doi.org/10.1021/je200922s
[illegible] + Ethylbenzene + Octane from (303.15 to 353.15) K and Atmospheric Pressure:	https://www.doi.org/10.1021/je049572f
Experimental determination and [illegible] mixing properties [illegible] Thermodynamic, excess and optical studies on the intermolecular interactions in binary mixtures of imidazolium based ILs:	https://www.doi.org/10.1016/j.jct.2016.03.029
Experiment and Application of the Solid-Liquid Phase Equilibrium for Ternary 2-Nitro-p-phenylenediamine + Ethyl Acetate + Isopropanol and 2-Nitro-p-phenylenediamine + Ethanol + N-Methyl-2-pyrrolidone Systems:	https://www.doi.org/10.1021/acs.jced.8b00952
Solubility of Clonazepam and Diazepam in Polyethylene Glycol 200, Propylene Glycol, and Water at 298.2 K:	https://www.doi.org/10.1021/je3009842
Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol [illegible] from (288.15 to 318.15) K:	https://www.doi.org/10.1021/je400486p
Solubility Measurement and Simulation of Rivaroxaban (Form I) in Solvent Mixtures from 278.15 to 318.15 K:	https://www.doi.org/10.1021/acs.jced.5b00667
Isothermal vapor-liquid equilibrium measurements and assessments of 1,1,1,3,3,3-hexafluoropropane+N,N-dimethylformamide/N-methyl-2-pyrrolidone working pairs for absorption power cycles:	https://www.doi.org/10.1016/j.fluid.2015.08.003
Solubility Measurement and Thermodynamic Model Correlation and Evaluation of 2-Chloro-5-nitroaniline in 12 Pure Solvents:	https://www.doi.org/10.1021/acs.jced.8b00931
Isobaric (vapour + liquid) equilibrium for N-methyl-2-pyrrolidone with branched alcohols:	https://www.doi.org/10.1016/j.jct.2008.09.021
Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes:	https://www.doi.org/10.1016/j.jct.2017.01.018
Experimental solubility for betulin and estrone in various solvents within the temperature range T = (293.2 to 328.2) K:	https://www.doi.org/10.1016/j.jct.2016.02.006
Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids:	https://www.doi.org/10.1016/j.jct.2014.07.014
Measurement and modelling of econazole nitrate in twelve pure organic solvents at temperatures from 278.15 K to 318.15 K:	https://www.doi.org/10.1016/j.jct.2016.07.043
Isothermal Vapor-Liquid Equilibria of Binary Mixtures of Nitrogen with Dimethyl Sulfoxide, N-Methyl-2-pyrrolidone, and Diethylene Glycol Monobutyl Ether at Elevated Pressures:	https://www.doi.org/10.1021/je6005357
Solubility of 2-Butyl-3-benzofuranyl 4-(2-(Diethylamino)ethoxy)-3,5-diiodophenyl Ketone Hydrochloride (Amiodarone HCl) in Ethanol + Water and N-Methyl-2-pyrrolidone + Water Mixtures at Various Temperatures:	https://www.doi.org/10.1021/je201268b
Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water:	https://www.doi.org/10.1016/j.tca.2013.04.011

Comparative Study of the Solubilities of SO2 in Five Low Volatile Organic Solvents (Sulfolane, Ethylene Glycol, Propylene Carbonate, N-Methylimidazole, and N-Methylpyrrolidone)	https://www.doi.org/10.1021/je4007713
Solubility modelling, solvent effect and preferential solvation of allopurinol in aqueous co-solvent mixtures of ethanol, isopropanol, N,N-dimethylformamide and 1-methyl-2-pyrrolidone:	https://www.doi.org/10.1016/j.jct.2018.11.028
Influence of temperature on thermophysical properties of ammonium ionic liquids with N-methyl-2-pyrrolidone	https://www.doi.org/10.1016/j.tca.2012.07.004
Thermodynamic and topological investigations of molecular interactions in binary and ternary mixtures containing 1-methyl pyrrolidin-2-one at T = 308.15 K:	https://www.doi.org/10.1016/j.jct.2010.12.016
Solubility determination and thermodynamic modelling of 3-amino-1,2,4-triazole in ten organic solvents from T = 283.15 K to T = 318.15 K and mixing properties of solutions:	https://www.doi.org/10.1016/j.jct.2016.09.033
Vapor liquid equilibrium measurement of 1,1,1,3,3-pentafluoropropane + N-methyl-2-pyrrolidone/diethyleneglycol dimethylether/N-methyl-2-pyrrolidone working fluids for absorption power cycle:	https://www.doi.org/10.1016/j.fluid.2014.01.007
Measurement and Correlation of Griseofulvin Solubility in Different Solvents at Temperatures from (281.95 to 357.60) K:	https://www.doi.org/10.1021/je100030j
Volumetric and transport properties of binary liquid mixtures with 1-ethyl-3-methylimidazolium ethyl sulfate as candidate solvents for regenerative flue gas desulfurization processes:	https://www.doi.org/10.1016/j.jct.2017.12.023
Experimental measurement and thermodynamic modeling of propylene and propane solubility in N-methyl-pyrrolidone (NMP):	https://www.doi.org/10.1016/j.fluid.2014.12.031
Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K:	https://www.doi.org/10.1016/j.jct.2013.01.020
(Solid + liquid) phase equilibria of binary mixtures containing N-methyl-2-pyrrolidinone and ethers at atmospheric pressure:	https://www.doi.org/10.1016/j.fluid.2004.11.006
Salting out effect of sodium, potassium, carbonate, sulfite, tartrate and thiosulfate ions on aqueous mixtures of acetonitrile or 1-methyl-2-pyrrolidone: A liquid-liquid equilibrium study:	https://www.doi.org/10.1016/j.fluid.2013.09.028
Experimental measurements and modelling of volumetric properties, refractive index and viscosity of binary systems of ethyl lactate with methyl ethyl ketone, toluene and N-methyl-2-pyrrolidone at 288.15-323.15 K and atmospheric pressure. New UNIFAC-VISCO and ASOG-VISCO interaction parameters:	https://www.doi.org/10.1016/j.fluid.2015.04.017
Equilibrium Solubility of Biapenem in Different Neat and Binary Solvents: Experimental Determination and Model Correlation:	https://www.doi.org/10.1021/acs.jced.8b01051
Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303-373 K:	https://www.doi.org/10.1016/j.fluid.2008.02.023
Thermodynamic, transport, and spectroscopic studies for mixtures of imidazolium ionic liquids and N-methyl-2-pyrrolidone:	https://www.doi.org/10.1016/j.jct.2009.06.006
Vapor Pressures of N-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane:	https://www.doi.org/10.1021/je700398k
Thermodynamic properties of binary mixtures of N-methyl-2-pyrrolidinone with cyclohexane, benzene, toluene at (303.15 to 353.15) K and atmospheric pressure:	https://www.doi.org/10.1016/j.jct.2006.06.005
Solubility and Solution Thermodynamics of 2-Chloro-4-nitroaniline in 12 Pure Solvents at Temperatures from 278.15 to 323.15 K:	https://www.doi.org/10.1021/acs.jced.9b00778
Application of Prigogine-Flory-Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone:	https://www.doi.org/10.1016/j.jct.2008.09.003
Separation of azeotrope (allyl alcohol + water): Isobaric vapour-liquid phase equilibrium measurements and extractive distillation:	https://www.doi.org/10.1016/j.jct.2017.11.009
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Densities and Viscosities of N,N-Dimethylformamide + N-Methyl-2-pyrrolidinone and + Dimethyl Sulfoxide in the Temperature Range (303.15 to 353.15) K:	https://www.doi.org/10.1021/je800138b
Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents:	https://www.doi.org/10.1021/je301353z
Densities, ultrasonic speeds and refractive indices of phenetole with N-methyl-2-pyrrolidone, N,N-dimethylformamide and tetrahydrofuran binary mixtures at different temperatures:	https://www.doi.org/10.1016/j.jct.2016.07.032
Measurement and Correlation of Phase Equilibria for Dodecane + sec-Butylbenzene + N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/je050191r
Binary Equilibrium Solubility of Amidinothiourea in Monosolvents: Experimental Determination, Model Correlation, and Solvent Effect Analysis:	https://www.doi.org/10.1021/acs.jced.9b00458
Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures:	https://www.doi.org/10.1021/je400408w
Solubility determination and thermodynamic modelling for 2-amino-4-chlorobenzoic acid in eleven organic solvents from T = (278.15 to 318.15) K and mixing properties of solutions:	https://www.doi.org/10.1016/j.jct.2016.11.019
Experimental solubility of diosgenin and estriol in various solvents between T = (293.2 and 328.2) K:	https://www.doi.org/10.1016/j.jct.2016.11.017
Vapor-Liquid Equilibria and Excess Molar Enthalpies for N-Methyl-2-pyrrolidone with Chloroethanes and Chloroethenes:	https://www.doi.org/10.1021/je020065c
Vapor-Liquid Equilibrium Data for 1-Methyl-2-Pyrrolidone + (1-Butanol or 1-Hexene or Water) Binary Mixtures:	https://www.doi.org/10.1021/je500092v
Liquid-liquid equilibria of lactam containing binary systems:	https://www.doi.org/10.1016/j.fluid.2008.02.008
Equilibrium solubility, dissolution thermodynamics and preferential solvation of 6-methyl-2-thiouracil in aqueous co-solvent mixtures of methanol, N-methyl-2-pyrrolidone, N,N-dimethylformamide and dimethylsulfoxide:	https://www.doi.org/10.1016/j.jct.2018.02.002
Liquid-Liquid Equilibria for the Quaternary Systems of Water + N-Methyl-2-pyrrolidone + 1-Hexanol + NaCl, + KCl, or + KAc:	https://www.doi.org/10.1021/je700561p
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
P-T-x Measurements for 1,1,1,2-Tetrafluoroethane (R134a) + N,N dimethylacetamide (DMA), and N-methyl-2-pyrrolidone (NMP):	https://www.doi.org/10.1021/acs.jced.5b00747
Solubility of Sulpiride in Pure Organic Solvents between (278 and 333) K:	https://www.doi.org/10.1021/je1002016
Activity coefficients at infinite dilution of organic solutes in N-formylmorpholine and N-methylpyrrolidone from gas-liquid chromatography:	https://www.doi.org/10.1016/j.jct.2013.02.006
Solubilities of Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine in 2-Butanone + Water, Dimethylsulfoxide + Water, and N-Methyl-pyrrolidone + Water:	https://www.doi.org/10.1021/je400199m
Separation of azeotropic mixture (2, 2, 3, 3-Tetrafluoro-1-propanol + water) by extractive distillation: Entrainers selection and vapour-liquid equilibrium measurements:	https://www.doi.org/10.1016/j.jct.2019.06.026
Solubility Determination and Model Correlation of Pymetrozine and Investigation of the Effect of Solvent Properties and Composition:	https://www.doi.org/10.1021/acs.jced.9b00229
Measurement and Correlation of Solubilities of 5,5'-Dinitramino-3,3'-bi[1,2,4-triazolate] Carbohydrazide Salt (CBNT) in Various Pure Solvents and a Binary Mixture (Dimethyl Sulfoxide + Water) from 298.15 to 343.15 K:	https://www.doi.org/10.1021/acs.jced.9b00275

Separation of benzene and thiophene with a mixture of N-methyl-2-pyrrolidinone (NMP) and ionic liquid as the entrainer:	https://www.doi.org/10.1016/j.fluid.2015.01.005
Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone (NMP) + Water + Ethanol from T = (293.15 to 323.15) K:	https://www.doi.org/10.1021/je201152j
Densities and volumetric properties of N-methyl-2-pyrrolidone with aromatic hydrocarbon at different temperature:	https://www.doi.org/10.1016/j.jct.2006.05.006
Solubility modelling and preferential solvation of adenine in solvent mixtures of (N,N-dimethylformamide, N-methyl pyrrolidone, propylene glycol and dimethyl sulfoxide) plus water:	https://www.doi.org/10.1016/j.jct.2018.05.030
Solubility and Solution Thermodynamics of 3-Nitro[illegible] in 12 Neat Solvents at Temperatures from 278.15 to 323.15 K:	https://www.doi.org/10.1021/acs.jced.8b01250
Equilibrium solubility, dissolution thermodynamics and preferential solvation of adenosine in aqueous solutions of N,N-dimethylformamide, N-methyl-2-pyrrolidone, dimethylsulfoxide and propylene glycol:	https://www.doi.org/10.1016/j.jct.2017.07.023
Solubility and Solvent Effect of 1-(2-Bromophenyl)-pyrrole-2,5-dione in [illegible] Solvents from 278.15 to 323.15 K:	https://www.doi.org/10.1021/acs.jced.9b00560
Thermodynamic Solubility and Mixing Properties of Phenformin in 14 Pure Solvents at Temperatures Ranging from 278.15 to 323.15 K:	https://www.doi.org/10.1021/acs.jced.9b00844
Measurement and Correlation of Isothermal Vapor–Liquid Equilibrium of Fluoroethane + Dimethyl Ether + Triethylene Glycol, 1,1-Difluoroethane + Dimethyl Ether + Triethylene Glycol, and 1,1-Difluoroethane + N-Methyl-2-pyrrolidone Systems:	https://www.doi.org/10.1021/acs.jced.5b00782
Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones:	https://www.doi.org/10.1021/je900262t
Densities and Isothermal Compressibilities at Pressures up to 20 MPa of the Systems 1-Methyl-2-pyrrolidone + 1-Chloroalkane or + r,u-Dichloroalkane:	https://www.doi.org/10.1021/je7003758
Solubility Modeling and Solvent Effect for Albendazole in 12 Neat Solvents:	https://www.doi.org/10.1021/acs.jced.8b01126
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C872504&Units=SI
Excess heat capacities of 1-methyl pyrrolidin-2-one and pyridine or picolines mixtures:	https://www.doi.org/10.1016/j.tca.2013.06.033
Solubility of 2-nitro-p-phenylenediamine in nine pure solvents and mixture of (methanol + N-methyl-2-pyrrolidone) from T = (283.15 to 318.15) K: Determination and modelling:	https://www.doi.org/10.1016/j.jct.2017.01.006
Solubility of Sodium Cefotaxime in Different Solvents:	https://www.doi.org/10.1021/je600564q
Phase Equilibrium and Phase Diagram for the System of Benzene Dicarboxylic Acid + N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/je500542j
Temperature dependence measurements and molecular interactions for ammonium ionic liquid with N-methyl-2-pyrrolidone:	https://www.doi.org/10.1016/j.jct.2012.03.034
Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate:	https://www.doi.org/10.1016/j.jct.2015.08.013
Thermodynamic modelling for solubility of 5-chloro-1-methyl-4-nitroimidazole in eleven organic solvents from T = (283.15 to 318.15) K:	https://www.doi.org/10.1016/j.jct.2016.10.006
Measurement and Correlation of Vapor-Liquid Equilibrium for R124 (1-Chloro-1,2,2,2-tetrafluoroethane)-NMP (N-Methyl-2-Pyrrolidone) and R124-DMF (N,N-Dimethylformamide) Mixtures:	https://www.doi.org/10.1021/acs.jced.7b00444
Solubility Determination of 2-Chloronicotinic Acid and Analysis of Solvent Effect:	https://www.doi.org/10.1021/acs.jced.9b00661
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Excess volumes and excess enthalpies of N-methyl-2-pyrrolidone with branched alcohols:	https://www.doi.org/10.1016/j.fluid.2006.12.012
Isobaric Vapor Liquid Equilibria for Binary Systems Comprising 1-Chloro-2-ethylhexane, 2-Ethyl-1-hexanol, p-Xylene, and N-Methylpyrrolidone (NMP) at 40.0 kPa:	https://www.doi.org/10.1021/je300848z
Solid-Liquid Equilibrium of 5-Chloro-8-hydroxyquinoline and 5,7-Dichloro-8-hydroxyquinoline in Different Solvents and Mixing Properties of Solutions:	https://www.doi.org/10.1021/acs.jced.9b00028
Isothermal Vapor-Liquid Equilibrium and Excess Enthalpy Data for the Binary Systems Water + Sulfolane and Methanol + N-Methyl-2-pyrrolidone (NMP):	https://www.doi.org/10.1021/je034254m
Solubility, Solubility Modeling, and Antisolvent Precipitation of 1,3-Bis(9-carbazolyl)benzene in Organic Solvents:	https://www.doi.org/10.1021/acs.jced.9b00432
Solubility Modeling and Solvent Effects of Allopurinol in 15 Neat Solvents:	https://www.doi.org/10.1021/acs.jced.8b00430
Solubilities of carbon dioxide in 2-methoxyethyl acetate, 1-methoxy-2-propyl acetate and 3-methoxybutyl acetate:	https://www.doi.org/10.1016/j.jct.2014.01.019
Solubilities of CO2 capture absorbents 2-ethoxyethyl ether, 2-butoxyethyl acetate and 2-(2-ethoxyethoxy)ethyl acetate:	https://www.doi.org/10.1016/j.fluid.2014.02.029
Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols:	https://www.doi.org/10.1016/j.fluid.2012.08.030
Thermodynamic properties of ternary mixtures containing 1-ethyl-3-methylimidazolium tetrafluoroborate with cyclic amides and cyclopentanone or cyclohexanone at T = (298.15, 303.15 and 308.15) K:	https://www.doi.org/10.1016/j.jct.2015.02.018
Solubility of Terephthalic Acid in Aqueous N-Methyl Pyrrolidone and N,N-Dimethyl Acetamide Solvents at (303.2 to 363.2) K:	https://www.doi.org/10.1021/je700635r
Salting effect on the liquid-liquid equilibria for the ternary system water + N-methyl-2-pyrrolidone + 1-pentanol:	https://www.doi.org/10.1016/j.fluid.2008.01.008
Solubility of Anthracene in N,N-Dimethyformamide, N,N-Dimethylacetamide, and N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/je060454x
Densities, Viscosities, Speeds of Sound, and Relative Permittivities for Water + Cyclic Amides (2-Pyrrolidinone, 1-Methyl-2-pyrrolidinone, and 1-Vinyl-2-pyrrolidinone) at Different Temperatures:	https://www.doi.org/10.1021/je0340809
Thermo-physical properties of ammonium-based ionic liquid + N-methyl-2-pyrrolidone mixtures at 298.15 K:	https://www.doi.org/10.1016/j.fluid.2014.09.031
Solubility of Cyclotrimethylenetrinitramine (RDX) in Binary Solvent Mixtures:	https://www.doi.org/10.1021/je7002463
Solubility Determination, Modeling, and Preferential Solvation of Terephthalaldehydic Acid Dissolved in Aqueous Solvent Mixtures of Methanol, Ethanol, Isopropanol, and N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/acs.jced.8b01262
Density, Speed of Sound, Viscosity, Refractive Index, and Excess Volume of N-Methyl-2-pyrrolidone + Ethanol (or Water or Ethylene Glycol) from T = (293.15 to 323.15) K:	https://www.doi.org/10.1021/je100967k
Solubilities of sulfuryl fluoride in propylene carbonate, tributyl phosphate and N-methylpyrrolidone:	https://www.doi.org/10.1016/j.jct.2018.05.007
Densities, Viscosities, Sound Speed, and IR Studies of N-methyl-2-pyrrolidone with Cyclohexylamine, Cyclohexanol, and Cyclohexene at different Temperatures.:	https://www.doi.org/10.1016/j.tca.2014.06.026

A study of densities and volumetric properties of binary mixtures of N-methyl-2-pyrrolidone with xylene at different temperatures and atmospheric pressure.	https://www.doi.org/10.1016/j.jct.2006.11.003
Isothermal Vapor Liquid Equilibrium of the Absorption Working Pairs (HFC-32 + DMETEG, HFC-32 + NMP) at Temperatures from 293.15 to 343.15 K:	https://www.doi.org/10.1021/acs.jced.9b00117
Solubility of Clonazepam, Diazepam, Lamotrigine, and Phenobarbital in N-Methyl-2-pyrrolidone + Water Mixtures at 298.2 K:	https://www.doi.org/10.1021/je9000153
Isobaric vapor liquid equilibria for water + acetic acid + (N-methyl pyrrolidone or N-methyl acetamide):	https://www.doi.org/10.1016/j.fluid.2006.02.002
Thermodynamic Properties of Mixtures Containing Ionic Liquids. 9. Activity Coefficients at Infinite Dilution of Hydrocarbons, Alcohols, Esters, and Aldehydes in Trimethyl-butylammonium Bis(trifluoromethylsulfonyl) Imide Using Gas-Liquid Chromatography and Static Method:	https://www.doi.org/10.1021/je050440b
Determination and modeling of binary and ternary solid-liquid phase equilibrium for the systems formed by 1,8-dinitronaphthalene, 1,5-dinitronaphthalene and N-methyl-2-pyrrolidone:	https://www.doi.org/10.1016/j.jct.2016.06.019
Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K:	https://www.doi.org/10.1016/j.jct.2009.01.006
Understanding ion-ion and ion-solvent interactions in aqueous solutions of NMP-based protic ionic liquids through partial molar properties and DFT calculations:	https://www.doi.org/10.1016/j.fluid.2017.05.005
[illegible] of the binary mixtures containing N-methylpyrrolidin-2-one, cyclohexanes and benzene:	https://www.doi.org/10.1016/j.jct.2014.12.022
Isothermal Vapor Liquid Equilibria of the Absorption Working Pairs (R1234yf + NMP, R1234yf + DMETEG) at Temperatures from 293.15 K to 353.15 K:	https://www.doi.org/10.1021/acs.jced.7b00821
Temperature dependences of limiting activity coefficients and Henry's law constants for N-methylpyrrolidone, pyridine, and piperidine in water:	https://www.doi.org/10.1016/j.fluid.2009.05.005
Excess molar enthalpies for [emim][BF4] + pyrrolidin-2-one or 1-methyl pyrrolidin-2-one + pyridine or water mixtures:	https://www.doi.org/10.1016/j.jct.2013.09.015
Vapor Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-methoxypropan-2-ol:	https://www.doi.org/10.1021/je034096z
Solubility of d-Aspartic Acid in Several Neat Solvents: Determination, Modeling, and Solvent Effect Analysis:	https://www.doi.org/10.1021/acs.jced.9b00320

Legend

affp:	Proton affinity
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
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
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
srf:	Surface Tension

tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point