

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- Agsorex 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	-2994.00	kJ/mol	NIST Webbook
chl	-2992.00 ± 0.40	kJ/mol	NIST Webbook
chl	-2988.05 ± 0.46	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	(Solid + liquid) phase equilibria of binary mixtures containing N-methyl-2-pyrrolidinone and ethers at atmospheric pressure
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
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	1002.00		NIST Webbook
rinpol	1045.50		NIST Webbook
rinpol	1042.00		NIST Webbook
rinpol	1002.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1034.00		NIST Webbook
rinpol	1043.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1045.00		NIST Webbook
rinpol	1045.50		NIST Webbook
rinpol	1009.00		NIST Webbook

ripol	1034.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1646.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1652.00		NIST Webbook
ripol	1662.00		NIST Webbook
ripol	1665.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1646.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1679.00		NIST Webbook
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
tb	477.01	K	Isobaric vapor liquid equilibria for water + acetic acid + (N-methyl pyrrolidone or N-methyl acetamide)
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	475.44	K	Separation of azeotrope (allyl alcohol + water): Isobaric vapour-liquid phase equilibrium measurements and extractive distillation
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
tc	721.70 ± 0.50	K	NIST Webbook
tc	721.80 ± 0.40	K	NIST Webbook
tf	249.68	K	(Solid + liquid) phase equilibria and solid-compound formation in (N-methyl-2-pyrrolidinone + phenol, or 3,5-dimethylphenol)
tf	249.48	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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	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	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
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	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	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	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	166.22	J/mol×K	298.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids
cpl	166.92	J/mol×K	303.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF4] and organic liquids
cpl	167.21	J/mol×K	308.15	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 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	412.40	J/mol×K	298.15	NIST Webbook
cpl	166.92	J/mol×K	303.15	Excess heat capacities of 1-methyl pyrrolidin-2-one and pyridine orpicolines mixtures

cpl	166.00	J/molxK	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	167.00	J/molxK	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	168.00	J/molxK	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	169.00	J/molxK	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	170.00	J/molxK	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	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	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	165.44	J/mol×K	293.15	Excess heat capacities of (binary + ternary) mixtures containing [emim][BF ₄] and organic liquids
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	307.80	J/mol×K	298.00	NIST Webbook
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	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

dvisc	0.0015430	Paxs	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	0.0014900	Paxs	303.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0009080	Paxs	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	0.0009084	Paxs	343.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0008127	Paxs	353.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0016830	Paxs	298.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO ₂ in the System at Elevated Pressures

dvisc	0.0015580	Paxs	303.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO ₂ in the System at Elevated Pressures
dvisc	0.0014700	Paxs	308.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO ₂ in the System at Elevated Pressures
dvisc	0.0013370	Paxs	313.10	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO ₂ in the System at Elevated Pressures
dvisc	0.0012480	Paxs	318.15	Physical Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate/N-Methyl-2-pyrrolidone Mixtures and the Solubility of CO ₂ in the System at Elevated Pressures
dvisc	0.0016670	Paxs	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	0.0014370	Paxs	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	Paxs	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	Paxs	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	Paxs	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	Paxs	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	0.0018110	Paxs	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	0.0013190	Paxs	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	Paxs	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	Paxs	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	Paxs	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	0.0008080	Paxs	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	0.0008127	Paxs	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	0.0010220	Paxs	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	0.0006520	Paxs	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	0.0011600	Paxs	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	Paxs	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	Paxs	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	Paxs	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	0.0010222	Paxs	333.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0011602	Paxs	323.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0013321	Paxs	313.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0015544	Paxs	303.15	Thermodynamic Properties of Binary Mixtures of p-Xylene with Cyclohexane, Heptane, Octane, and N-Methyl-2-pyrrolidone at Several Temperatures
dvisc	0.0008130	Paxs	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	0.0009080	Paxs	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	0.0010220	Paxs	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	0.0005670	Paxs	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	0.0013320	Paxs	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	Paxs	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	0.0008310	Paxs	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	0.0009860	Paxs	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	Paxs	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	Paxs	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	0.0013650	Paxs	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	Paxs	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	0.0010350	Paxs	333.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0011750	Paxs	323.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0013220	Paxs	313.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0016560	Paxs	298.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C

dvisc	0.0013100	Paxs	313.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0013900	Paxs	308.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
dvisc	0.0021620	Paxs	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	0.0018220	Paxs	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	0.0016950	Paxs	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	0.0016080	Paxs	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	Paxs	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	Paxs	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	Paxs	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	Paxs	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	Paxs	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	0.0009210	Paxs	343.15	Volumetric Properties and Viscosities for Aqueous N-Methyl-2-pyrrolidone Solutions from 25 deg C to 70 deg C
dvisc	0.0007570	Paxs	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	Paxs	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	0.0011600	Paxs	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	0.0006060	Paxs	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	0.0016600	Paxs	298.15	Influence of temperature on thermophysical properties of ammonium ionic liquids with Nmethyl-2-pyrrolidone
hfust	18.10	kJ/mol	248.50	NIST Webbook
hvapt	53.40	kJ/mol	408.00	NIST Webbook
hvapt	47.70	kJ/mol	408.00	NIST Webbook
hvapt	49.20	kJ/mol	419.00	NIST Webbook
hvapt	49.30	kJ/mol	403.00	NIST Webbook
hvapt	53.10	kJ/mol	351.50	NIST Webbook
hvapt	49.50	kJ/mol	427.50	NIST Webbook
hvapt	55.30	kJ/mol	295.00	NIST Webbook
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	23.65	kPa	424.65	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	25.96	kPa	427.56	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
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	60.50	kPa	456.48	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	76.40	kPa	465.29	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	88.70	kPa	471.15	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	95.30	kPa	474.01	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
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	5.24	kPa	383.12	Vapor Pressures of 1-Methyl-2-pyrrolidone, 1-Methyl-azepan-2-one, and 1,2-Epoxy-3-chloropropane
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	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	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	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	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	2.22	kPa	363.36	Vapor-Liquid Equilibrium for Propylene Glycol + 2-(2-Hexyloxyethoxy)ethanol and 1-Methyl-2-pyrrolidone + 1-Methoxypropan-2-ol
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	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	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	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	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	28.10	kPa	430.09	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	34.20	kPa	436.50	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
pvap	41.30	kPa	442.88	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	53.70	kPa	452.13	Vapor-liquid equilibria and excess molar volumes of N-methyl-2-pyrrolidone with 2-alkoxyethanols
rfi	1.46876		298.15	Liquid liquid equilibria of lactam containing binary systems
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][BF ₄]) mixtures using a new static-synthetic cell
rfi	1.46860		293.10	Extraction of pentylbenzene from high molar mass alkanes (C ₁₄ and C ₁₇) by N-methyl-2-pyrrolidone
rfi	1.46770		293.10	Densities and volumetric properties of N-methyl-2-pyrrolidone with aromatic hydrocarbon at different temperature
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	1.46740		298.15	Isobaric (vapour + liquid) equilibrium for N-methyl-2-pyrrolidone with branched alcohols

rfi	1.46740	298.15	Excess molar volumes and ultrasonic studies of N-methyl-2-pyrrolidone with ketones at T = 303.15 K
rfi	1.46900	293.15	Experimental solubility for betulin and estrone in various solvents within the temperature range T = (293.2 to 328.2) K
rfi	1.46860	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	1.46860	293.10	Liquid-Liquid Equilibria Measurements for Ternary System of Hexadecane + 1,3,5-Trimethylbenzene + N-Methyl-2-pyrrolidone
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	1.46910	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	1.46640	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	1.46470	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	1.46210	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	1.46030	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	1.45760	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	1.45590		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	1.46800		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	1.47030		293.15	Vapor Liquid Equilibrium Data for 1-Methyl-2-Pyrrolidone + (1-Butanol or 1-Hexene or Water) Binary Mixtures
rfi	1.46740		298.15	Excess volumes and excess enthalpies of N-methyl-2-pyrrolidone with branched alcohols
rfi	1.46960		293.10	Liquid liquid equilibria for n-alkanes (C12, C14, C17) + propylbenzene +NMP mixtures at temperatures between 298 and 328K
rhol	1022.64	kg/m3	303.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs

rho1	1028.55	kg/m3	298.15	Excess enthalpies and isothermal (vapour + liquid) equilibria of (1-methyl-2-pyrrolidone + 1-chloroalkane or +,?-dichloroalkane) mixtures
rho1	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
rho1	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
rho1	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
rho1	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
rho1	1019.03	kg/m3	308.15	Thermodynamic, transport, and spectroscopic studies for mixtures of isomeric butanediol and N-methyl-2-pyrrolidinone
rho1	1025.90	kg/m3	298.15	Temperature dependence measurements and molecular interactions for ammonium ionic liquid with N-methyl-2-pyrrolidone

rhoI	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
rhoI	1033.30	kg/m3	293.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhoI	1028.30	kg/m3	298.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhoI	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
rhoI	1023.50	kg/m3	303.15	Excess heat capacities of mixtures containing 1-methylpyrrolidin-2-one, chlorotoluenes and benzene
rhoI	1032.66	kg/m3	293.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhoI	1028.17	kg/m3	298.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rhoI	1023.60	kg/m3	303.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate

rho	1019.49	kg/m ³	308.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rho	1014.74	kg/m ³	313.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rho	1010.20	kg/m ³	318.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate
rho	1023.40	kg/m ³	303.15	Excess Molar Enthalpies and Vapor-Liquid Equilibrium for N-Methyl-2-pyrrolidone with Ketones
rho	1006.06	kg/m ³	323.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1010.53	kg/m ³	318.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1005.89	kg/m ³	323.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gamma.-butyrolactone and propylene carbonate

rho	1027.10	kg/m ³	298.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rho	1019.46	kg/m ³	308.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1023.92	kg/m ³	303.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1028.38	kg/m ³	298.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1032.84	kg/m ³	293.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone
rho	1037.30	kg/m ³	288.15	Volumetric and Viscometric Behavior of Binary Systems 2-Butanol + PEG 200, + PEG 400, + Tetraethylene Glycol Dimethyl Ether, and + N-Methyl-2-pyrrolidone

rho	1023.49	kg/m ³	303.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rho	1028.26	kg/m ³	298.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rho	1033.28	kg/m ³	293.15	Excess Heat Capacities for Lactam + Chlorotoluene Binary Mixtures
rho	1018.66	kg/m ³	308.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rho	1023.46	kg/m ³	303.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rho	1028.23	kg/m ³	298.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rho	1033.23	kg/m ³	293.15	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents
rho	1028.30	kg/m ³	298.15	Density, Speed of Sound, and Viscosity of N-Methyl-2-pyrrolidone + Ethanolamine + Water from T = (293.15 to 323.15) K

rho	1027.91	kg/m ³	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
rho	1018.66	kg/m ³	308.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rho	1023.46	kg/m ³	303.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rho	1028.23	kg/m ³	298.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water
rho	1033.23	kg/m ³	293.15	Thermodynamic properties of ternary mixtures of 1-ethyl-3-methylimidazolium tetrafluoroborate with 1-methyl pyrrolidin-2-one or pyrrolidin-2-one + water

rho1	1006.06	kg/m3	323.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1010.53	kg/m3	318.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1015.00	kg/m3	313.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1019.46	kg/m3	308.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1023.93	kg/m3	303.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1028.38	kg/m3	298.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	1032.84	kg/m3	293.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes

rho1	1037.30	kg/m3	288.15	Volumetric and viscometric properties of binary liquid mixtures as potential solvents for flue gas desulfurization processes
rho1	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
rho1	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
rho1	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
rho1	1004.79	kg/m3	323.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs

rhoI	1009.25	kg/m ³	318.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhoI	1013.72	kg/m ³	313.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhoI	1018.18	kg/m ³	308.15	Thermodynamic, excess and optical studies on the intermolecular interactions of binary liquid mixtures of imidazolium based ILs
rhoI	1030.45	kg/m ³	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-pyrrolidone at 288.15 323.15 K and atmospheric pressure. New UNIFAC VISCO and ASOG VISCO interaction parameters
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

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	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	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
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	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	327.89	Surface Tension of Pure Liquids and Binary Liquid Mixtures
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	317.85	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	287.80	Surface Tension of Pure Liquids and Binary Liquid Mixtures
srf	0.04	N/m	277.84	Surface Tension of Pure Liquids and Binary Liquid Mixtures
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	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	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	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	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	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	297.81	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	$\ln(P_{vp}) = A + B/(T + C)$
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/m ³ - 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

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Solubility of 2-(4-Ethylphenyl)benzoic Acid in Short-N-Alkyl-2-pyrrolidinones and Propylthiourea in Aqueous Solutions of Ethylene Glycol

Temperature Dependences of Limiting Activity Coefficients and Henry's Law Parameters for Oxandrolone and Oxidation for the Tertiary System Water + N-Methyl-2-pyrrolidone + Benzoic Acid in Binary Solvent Mixtures of Thermodynamic Properties of Binary Mixtures of N-methyl-2-pyrrolidone with 1,4-Dioxane, Cyclohexane, and Propylthiourea in Different Neat and Binary Solvents: Solubility Determination and Model

1,4-Dioxane + 2,2-Dinitroethylene in Binary Mixtures of N-methyl-2-pyrrolidone + Propylthiourea and N-methyl-2-pyrrolidone + CO₂ Solubility in Excess, Enthalpies and Joule-Thomson (vapour + liquid) equilibria of Solubility of Oxandrolone and Diazepam in Propylthiourea, Glycol, Propylthiourea, N-methyl-2-pyrrolidone, Ethanol, and Water at 293.15, 303.15, and 313.15 K

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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

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