N,N-Dimethylacetamide

Other names:	Acetamide, N,N-dimethyl-
	Acetdimethylamide
	Acetic acid dimethylamide
	Acetyl dimethylamine
	CBC 510337
	CH3CON(CH3)2
	DMA
	DMAc
	Dimethylacetamide
	Dimethylamid kyseliny octove
	Dimethylamide acetate
	Hallucinogen
	N,N-Dimethylethanamide
	N,N-dimethylacetamide [DMA]
	NSC 3138
	SK 7176
	U-5954
Inchi:	InChI=1S/C4H9NO/c1-4(6)5(2)3/h1-3H3
InchiKey:	FXHOOIRPVKKKFG-UHFFFAOYSA-N
Formula:	C4H9NO
SMILES:	CC(=O)N(C)C
Mol. weight [g/mol]:	87.12
CAS:	127-19-5

Physical Properties

Property code	Value	Unit	Source
affp	908.00	kJ/mol	NIST Webbook
basg	877.00	kJ/mol	NIST Webbook
chl	-2582.00 ± 1.50	kJ/mol	NIST Webbook
cpl	175.49	J/mol×K	Volumes, Heat Capacities, and Compressibilities of the Mixtures of Acetonitrile with N,N-Dimethylacetamide and Propylene Carbonate
gf	-35.34	kJ/mol	Joback Method
hf	-170.94	kJ/mol	Joback Method
hfl	-278.30 ± 1.50	kJ/mol	NIST Webbook

hfl	-298.20	kJ/mol	NIST Webbook
hfl	-300.10	kJ/mol	NIST Webbook
hfus	50.66	kJ/mol	Enthalpies of vaporization of N,N-dialkyl monamides at 298.15K
hfus	10.20	kJ/mol	Thermodynamic properties of N,N-dimethylformamide and N,N-dimethylacetamide
hvap	53.70 ± 0.40	kJ/mol	NIST Webbook
hvap	54.10	kJ/mol	NIST Webbook
hvap	50.20	kJ/mol	NIST Webbook
hvap	50.70 ± 0.70	kJ/mol	NIST Webbook
hvap	45.80	kJ/mol	NIST Webbook
hvap	46.00 ± 2.00	kJ/mol	NIST Webbook
hvap	43.70	kJ/mol	NIST Webbook
ie	9.20 ± 0.05	eV	NIST Webbook
ie	8.81	eV	NIST Webbook
ie	9.43	eV	NIST Webbook
ie	8.81 ± 0.03	eV	NIST Webbook
log10ws	1.11		Estimated Solubility Method
log10ws	1.11		Aqueous Solubility Prediction Method
logp	0.094		Crippen Method
mcvol	78.770	ml/mol	McGowan Method
pc	4211.09	kPa	Joback Method
rinpol	833.30		NIST Webbook
rinpol	883.00		NIST Webbook
rinpol	833.00		NIST Webbook
rinpol	833.30		NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	835.00		NIST Webbook
rinpol	840.00		NIST Webbook
rinpol	835.00		NIST Webbook
ripol	1437.00		NIST Webbook
ripol	1437.00		NIST Webbook
ripol	1414.00		NIST Webbook
ripol	1409.00		NIST Webbook
ripol	1414.00		NIST Webbook
ripol	1384.00		NIST Webbook
tb	439.15	K	Vapor-Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa

tb	438.77	K	Vapor-Liquid Equilibrium Data for N-Methylacetamide and N,N-Dimethylacetamide with Cumene at 97.3 kPa
tb	439.05	K	Isobaric vapour-liquid equilibrium measurements and extractive distillation process for the azeotrope of (N,N-dimethylisopropylamine + acetone)
tb	438.95	K	Experimental isobaric vapour-liquid equilibrium data for the binary system (N, N-dimethyl acetamide + dimethyl sulfoxide) and the quaternary system (sec-butyl acetate + sec-butyl alcohol + N, N-dimethyl acetamide + dimethyl sulfoxide) at 101.3 kPa
tb	439.25	K	Vapor Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure
tb	438.20	K	NIST Webbook
tc	534.50	K	Joback Method
tf	217.24	K	Joback Method
vc	0.283	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	158.37	J/mol×K	445.86	Joback Method
cpg	150.46	J/mol×K	416.32	Joback Method
cpg	142.19	J/mol×K	386.77	Joback Method
cpg	180.05	J/mol×K	534.50	Joback Method
cpg	173.16	J/mol×K	504.95	Joback Method
cpg	165.94	J/mol×K	475.41	Joback Method
cpg	133.54	J/mol×K	357.23	Joback Method
cpl	178.20	J/mol×K	298.15	NIST Webbook

dvisc	0.0007630	Pa×s	318.15	Density, Viscosity, and Speed of Sound of (1-Octanol + 2-Methoxyethanol), (1-Octanol + N,N-Dimethylacetamide), and (1-Octanol + Acetophenone) at Temperatures of (298.15, 308.15, and 318.15) K
dvisc	0.0008410	Pa×s	308.15	Density, Viscosity, and Speed of Sound of (1-Octanol + 2-Methoxyethanol), (1-Octanol + N,N-Dimethylacetamide), and (1-Octanol + Acetophenone) at Temperatures of (298.15, 308.15, and 318.15) K
dvisc	0.0009370	Pa×s	298.15	Density, Viscosity, and Speed of Sound of (1-Octanol + 2-Methoxyethanol), (1-Octanol + N,N-Dimethylacetamide), and (1-Octanol + Acetophenone) at Temperatures of (298.15, 308.15, and 318.15) K
hfust	10.20	kJ/mol	254.20	NIST Webbook
hfust	10.42	kJ/mol	251.40	NIST Webbook
hfust	8.20	kJ/mol	253.20	NIST Webbook
hvapt	45.20	kJ/mol	333.00	NIST Webbook
hvapt	45.10	kJ/mol	397.00	NIST Webbook
hvapt	67.90	kJ/mol	367.50	NIST Webbook
pvap	1.53	kPa	328.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	17.50	kPa	383.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	14.52	kPa	378.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	11.98	kPa	373.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide

pvap	9.81	kPa	368.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	8.00	kPa	363.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	5.19	kPa	353.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	4.13	kPa	348.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	3.27	kPa	343.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	2.56	kPa	338.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	1.98	kPa	333.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	21.01	kPa	388.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	1.16	kPa	323.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.89	kPa	318.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.68	kPa	313.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.52	kPa	308.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.39	kPa	303.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.29	kPa	298.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide

pvap	101.30	kPa	439.15	Vapor-Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa
pvap	8.46	kPa	363.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	5.37	kPa	353.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	5.35	kPa	353.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	5.32	kPa	353.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	5.31	kPa	353.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	5.29	kPa	353.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	3.39	kPa	343.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	2.23	kPa	333.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide

pvap	1.64	kPa	328.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	1.61	kPa	328.15	Vapor Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide
pvap	101.33	kPa	439.25	Vapor Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure
pvap	101.30	kPa	439.05	Isobaric vapour-liquid equilibrium measurements and extractive distillation process for the azeotrope of (N,N-dimethylisopropylamine + acetone)
pvap	0.66	kPa	313.15	(Vapour + liquid) equilibrium in (N,N-dimethylacetamide + ethanol + water) at the temperature 313.15 K
pvap	64.73	kPa	423.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	48.09	kPa	413.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K

pvap	35.04	kPa	403.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	25.03	kPa	393.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	17.55	kPa	383.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	12.00	kPa	373.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	25.03	kPa	393.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	5.19	kPa	353.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	3.27	kPa	343.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K

pvap	1.98	kPa	333.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	1.16	kPa	323.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	1.48	kPa	328.30	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	1.28	kPa	325.80	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	1.13	kPa	323.30	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	1.11	kPa	323.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	1.00	kPa	320.80	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.84	kPa	318.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.73	kPa	316.40	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.71	kPa	315.70	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides

pvap	0.60	kPa	313.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.60	kPa	313.10	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.50	kPa	310.60	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.43	kPa	308.10	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.44	kPa	308.00	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.38	kPa	305.60	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.35	kPa	305.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.32	kPa	303.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.31	kPa	303.00	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.27	kPa	300.70	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.23	kPa	298.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.23	kPa	298.10	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides

pvap	0.20	kPa	296.30	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.16	kPa	293.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.14	kPa	291.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.13	kPa	290.80	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	29.69	kPa	398.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.10	kPa	286.40	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.08	kPa	283.00	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.07	kPa	281.30	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.06	kPa	279.70	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.05	kPa	278.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	0.05	kPa	276.50	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
pvap	35.02	kPa	403.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide

pvap	41.11	kPa	408.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	48.06	kPa	413.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	55.91	kPa	418.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	64.78	kPa	423.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	8.00	kPa	363.15	Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K
pvap	0.11	kPa	288.20	Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides
rfi	1.43460		298.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.43820		288.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.43570		298.15	Densities, Viscosities, and Refractive Indices for Binary and Ternary Mixtures of N,N-Dimethylacetamide (1) + 2-Methylbutan-2-ol (2) + Ethyl Acetate (3) at 298.15 K for the Liquid Region and at Ambient Pressure

rfi	1.43200	308.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K	
rfi	1.43420	303.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K	
rfi	1.43630	298.15	Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K	
rfi	1.43560	298.15	Bubble Temperature Measurements on Binary Mixtures Formed by Cyclohexane at 94.7 kPa	
rfi	1.43556	298.15	Excess volumes of mixing in (N,N-dimethylacetamide + methanol + water) and (N,N-dimethylacetamide + ethanol + water) at the temperature 313.15 K	
rfi	1.43560	298.15	Bubble temperature measurements on seven binary mixtures formed by ethylbenzene at 94.7 kPa	

rfi	1.43570		298.15	Activity coefficients and excess Gibbs energy of binary mixtures of N,N-dimethyl formamide with selected compounds at 95.5 kPa
rfi	1.43520		298.15	Vapor Liquid Equilibrium for Ternary and Binary Mixtures of 2-Isopropoxypropane, 2-Propanol, and N,N-Dimethylacetamide at 101.3 kPa
rfi	1.43120		308.15	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rfi	1.42600		318.18	Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (283.15 to 318.15) K
rhol	932.00	kg/m3	303.15	Thermodynamic Properties of Binary Mixtures Containing N,N-Dimethylacetamide + 2-Alkanol: Experimental Data and Modeling
rhol	894.87	kg/m3	343.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	890.19	kg/m3	348.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid

rhol	885.51	kg/m3	353.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	936.54	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	936.21	kg/m3	298.15	Thermodynamics of Mixtures Containing a Strongly Polar Compound. 8. Liquid-Liquid Equilibria for N,N-Dialkylamide + Selected N-Alkanes
rhol	936.88	kg/m3	298.15	Thermodynamics of Mixtures Containing a Very Strongly Polar Compound. 10. Liquid Liquid Equilibria for N,N-Dimethylacetamide + Selected Alkanes
rhol	940.92	kg/m3	293.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K

rhol	936.30	kg/m3	298.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	931.62	kg/m3	303.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	926.89	kg/m3	308.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	922.09	kg/m3	313.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K

rhol	917.23	kg/m3	318.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	912.23	kg/m3	323.15	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	936.50	kg/m3	298.15	Thermodynamic Properties of Binary Mixtures Containing N,N-Dimethylacetamide + 2-Alkanol: Experimental Data and Modeling
rhol	899.53	kg/m3	338.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	927.80	kg/m3	308.15	Thermodynamic Properties of Binary Mixtures Containing N,N-Dimethylacetamide + 2-Alkanol: Experimental Data and Modeling

rhol	923.50	kg/m3	313.15	Thermodynamic Properties of Binary Mixtures Containing N,N-Dimethylacetamide + 2-Alkanol: Experimental Data and Modeling
rhol	940.92	kg/m3	293.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	936.30	kg/m3	298.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	931.62	kg/m3	303.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K

rhol	926.89	kg/m3	308.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	922.09	kg/m3	313.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	917.23	kg/m3	318.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K
rhol	912.23	kg/m3	323.15	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K

rhol	937.00	kg/m3	298.15	Densities and Isothermal Compressibilities at Pressures up to 20 MPa of the Systems N,N-Dimethylformamide or N,N-Dimethylacetamide + r,o-Dichloroalkane
rhol	926.90	kg/m3	308.15	Densities and Isothermal Compressibilities at Pressures up to 20 MPa of the Systems N,N-Dimethylformamide or N,N-Dimethylacetamide + r,o-Dichloroalkane
rhol	904.16	kg/m3	333.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	908.81	kg/m3	328.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	913.44	kg/m3	323.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	918.06	kg/m3	318.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	922.66	kg/m3	313.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid

rhol	927.26	kg/m3	308.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	931.85	kg/m3	303.15	Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid
rhol	875.43	kg/m3	363.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	884.90	kg/m3	353.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	894.31	kg/m3	343.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	903.68	kg/m3	333.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	912.99	kg/m3	323.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	922.26	kg/m3	313.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids

rhol	931.51	kg/m3	303.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	936.13	kg/m3	298.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	940.74	kg/m3	293.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	945.35	kg/m3	288.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	949.95	kg/m3	283.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	954.56	kg/m3	278.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids
rhol	959.16	kg/m3	273.15	Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids

rhol	894.91	kg/m3	343.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	899.60	kg/m3	338.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	904.27	kg/m3	333.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	908.93	kg/m3	328.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling

rhol	913.59	kg/m3	323.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	918.23	kg/m3	318.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	922.86	kg/m3	313.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	927.49	kg/m3	308.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling

rhol	932.11	kg/m3	303.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	936.73	kg/m3	298.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	941.34	kg/m3	293.15	Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15 343.15 K: Measurement and PC-SAFT Modeling
rhol	917.89	kg/m3	318.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	922.52	kg/m3	313.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide

rhol	927.14	kg/m3	308.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	931.76	kg/m3	303.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	936.38	kg/m3	298.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	940.98	kg/m3	293.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	945.59	kg/m3	288.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	950.19	kg/m3	283.15	Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide
rhol	922.43	kg/m3	313.15	Density, Speed of Sound, Refractive Index, and Viscosity of the Binary Mixtures of N,N-dimethylacetamide with Methanol and Ethanol
rhol	936.29	kg/m3	298.15	Density, Speed of Sound, Refractive Index, and Viscosity of the Binary Mixtures of N,N-dimethylacetamide with Methanol and Ethanol
rhol	950.13	kg/m3	283.15	Density, Speed of Sound, Refractive Index, and Viscosity of the Binary Mixtures of N,N-dimethylacetamide with Methanol and Ethanol

rhol	903.86	kg/m3	333.15	Density and Viscosity Measurements for Binary Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([Emim][BF4]) with Dimethylacetamide, Dimethylformamide, and Dimethyl Sulfoxide
rhol	913.17	kg/m3	323.15	Density and Viscosity Measurements for Binary Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([Emim][BF4]) with Dimethylacetamide, Dimethylformamide, and Dimethyl Sulfoxide
rhol	922.44	kg/m3	313.15	Density and Viscosity Measurements for Binary Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([Emim][BF4]) with Dimethylacetamide, Dimethylformamide, and Dimethyl Sulfoxide
rhol	931.69	kg/m3	303.15	Density and Viscosity Measurements for Binary Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([Emim][BF4]) with Dimethylacetamide, Dimethylformamide, and Dimethyl Sulfoxide

rhol	935.90	kg/m3	298.15	Conductometric, refractometric and FT-IR spectroscopic study of [EMIm]NO3, [EMIm]CH3SO3, and [EMIm]OTs in N,N-dimethyl formamide, N,N-dimethyl acetamide and dimethyl sulphoxide
rhol	917.78	kg/m3	318.15	Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies
rhol	922.41	kg/m3	313.15	Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies
rhol	927.05	kg/m3	308.15	Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies
rhol	931.67	kg/m3	303.15	Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies
rhol	936.28	kg/m3	298.15	Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies

rhol	885.51	kg/m3	353.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	890.19	kg/m3	348.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	894.87	kg/m3	343.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	899.53	kg/m3	338.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	904.16	kg/m3	333.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	908.81	kg/m3	328.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	913.44	kg/m3	323.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	918.06	kg/m3	318.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	922.66	kg/m3	313.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride

rhol	927.26	kg/m3	308.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	931.85	kg/m3	303.15	Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride
rhol	917.79	kg/m3	318.15	Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide - A volumetric and acoustic study
rhol	922.42	kg/m3	313.15	Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide - A volumetric and acoustic study
rhol	927.05	kg/m3	308.15	Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide - A volumetric and acoustic study
rhol	931.67	kg/m3	303.15	Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide - A volumetric and acoustic study
rhol	936.28	kg/m3	298.15	Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide - A volumetric and acoustic study

rhol	918.50	kg/m3	318.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	923.00	kg/m3	313.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	927.50	kg/m3	308.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	932.00	kg/m3	303.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures

rhol	936.50	kg/m3	298.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	941.00	kg/m3	293.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	945.50	kg/m3	288.15	Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures
rhol	903.76	kg/m3	333.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide

rhol	913.08	kg/m3	323.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide
rhol	922.35	kg/m3	313.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide
rhol	931.61	kg/m3	303.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide
rhol	936.22	kg/m3	298.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide
rhol	940.83	kg/m3	293.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide

rhol	950.04	kg/m3	283.15	Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide
rhol	936.50	kg/m3	298.15	Densities and volumetric properties of binary mixtures of N,N-dimethylformamide/N,N-dimethylacetamide with some alkyl acrylates at temperatures from 288.15 K to 318.15 K
rhol	936.80	kg/m3	298.15	Physics and chemistry of an ionic liquid in some industrially important solvent media probed by physicochemical techniques
rhol	917.86	kg/m3	318.15	Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa: A comparative analysis
rhol	927.14	kg/m3	308.15	Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa: A comparative analysis

rhol	936.38	kg/m3	298.15	Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa: A comparative analysis
rhol	945.59	kg/m3	288.15	Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa: A comparative analysis
rhol	954.78	kg/m3	278.15	Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa: A comparative analysis
rhol	936.34	kg/m3	298.15	Excess molar enthalpies and (vapour + liquid) equilibria for mixtures containing N,N-dialkylamides and a,x-dichloroalkanes
rhol	913.13	kg/m3	323.15	Density and speed of sound of lithium bromide with organic solvents: Measurement and correlation
rhol	936.34	kg/m3	298.15	(Vapour + liquid) equilibria and excess molar enthalpies for binary mixtures containing N,N-dialkylamides and 1-chloroalkanes

rhol	918.60	kg/m3	318.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	923.10	kg/m3	313.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	927.60	kg/m3	308.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	932.00	kg/m3	303.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	936.50	kg/m3	298.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K
rhol	941.00	kg/m3	293.15	Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K

rhol	936.27	kg/m3	298.15	Volumetric and compressibility behaviour of ionic liquid, 1-n-butyl-3-methylimidazolium hexafluorophosphate and tetrabutylammonium hexafluorophosphate in organic solvents at T = 298.15 K
rhol	936.54	kg/m3	293.15	Volumetric properties of binary mixtures of (water + organic solvents) at temperatures between T = 288.15 K and T = 303.15 K at p = 0.1 MPa
rhol	936.36	kg/m3	298.15	Limiting partial molar volumes and expansibilities of ammonium perchlorate, tetraalkylammonium perchlorates, and tetrabutylammonium tetraphenylborate in N,N-dimethylformamide
rhol	936.14	kg/m3	298.15	Thermodynamics of amide + amine mixtures. 5. Excess molar enthalpies of N,N-dimethylformamide or N,N-dimethylacetamide + N-propylpropan-1-amine, + N-butylbutan-1-amine, + butan-1-amine, or + hexan-1-amine systems at 298.15 K. Application of the ERAS model

rhol	936.73	kg/m3	298.15	PrhoT measurement and PC-SAFT modeling of N,N-dimethyl formamide, N -methyl formamide, N,N-dimethyl acetamide, and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa
rhol	941.35	kg/m3	303.15	Effect of various substituents on benzene ring and their impact on volumetric, acoustic and transport properties of binary liquid mixtures with dimethylacetamide
rhol	936.31	kg/m3	298.15	Thermodynamic properties of vanadyl (N,N'-salicylideneethylendiamine) Schiff base complex in ionic liquid + N,N-dimethylacetamide solutions
rhol	922.10	kg/m3	313.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data
rhol	926.80	kg/m3	308.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data

rhol	936.00	kg/m3	303.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data
rhol	950.20	kg/m3	298.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data
rhol	962.30	kg/m3	293.15	Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures from Thermoacoustics and Molecular Compression Data
rhol	936.27	kg/m3	298.15	Volumetric Properties of the Ionic Liquid, 1-Butyl-3-methylimidazolium Tetrafluoroborate, in Organic Solvents at T = 298.15 K
speedsl	1455.37	m/s	298.15	Adiabatic Compressibilities of Divalent Transition-Metal Perchlorates and Chlorides in N,N-Dimethylacetamide and Dimethylsulfoxide
speedsl	1455.37	m/s	298.15	Apparent Molar Compressibilities and Volumes of Some 1,1-Electrolytes in N,N-Dimethylacetamide and N,N-Dimethylformamide

speedsl	1455.91	m/s	298.15	Isentropic compressibilities of (amide + water) mixtures: A comparative study

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	-4.27944e+01
Coeff. B	-3.73912e+03
Coeff. C	9.62289e+00
Coeff. D	-1.35470e-05
Temperature range (K), min.	253.15
Temperature range (K), max.	658.00

Datasets

Mass density, kg/m3

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m3 - Liquid
85.90	298.15	936.57

Reference *https://www.doi.org/10.1016/j.fluid.2013.05.001*

Temperature, K	Pressure, kPa	Mass density, kg/m3
298.15	100.00	936.31

Reference *https://www.doi.org/10.1016/j.jct.2014.09.022*

Temperature, K	Pressure, kPa	Mass density, kg/m3
288.15	100.00	945.7
288.15	2000.00	946.7

288.15	4000.00	947.8
288.15	6000.00	949.0
288.15	8100.00	950.1
288.15	9900.00	951.1
288.15	12000.00	952.2
288.15	13900.00	953.2
288.15	16000.00	954.3
288.15	18100.00	955.4
288.15	20000.00	956.5
298.15	100.00	937.0
298.15	2000.00	938.1
298.15	4100.00	939.4
298.15	6100.00	940.6
298.15	8100.00	941.8
298.15	10000.00	943.0
298.15	12100.00	944.1
298.15	14200.00	945.3
298.15	16300.00	946.4
298.15	18400.00	947.5
298.15	20100.00	948.6
308.15	100.00	927.9
308.15	2000.00	929.1
308.15	4100.00	930.4
308.15	6100.00	931.6
308.15	8100.00	932.8
308.15	10100.00	934.0
308.15	12100.00	935.3
308.15	14200.00	936.5
308.15	16300.00	937.6
308.15	18200.00	938.7
308.15	20200.00	939.9
318.15	100.00	918.7
318.15	2000.00	919.8
318.15	4000.00	921.2
318.15	6000.00	922.5
318.15	8000.00	923.8
318.15	9900.00	925.0
318.15	12000.00	926.3
318.15	14000.00	927.5
318.15	16000.00	928.7
318.15	18100.00	930.0
318.15	20000.00	931.3

Reference *https://www.doi.org/10.1021/je700096m*

Refractive index (Na D-line)

Pressure, kPa - Liquid	Temperature, K - Liquid	Refractive index (Na D-line) - Liquid
85.90	298.15	1.436

Reference *https://www.doi.org/10.1016/j.jct.2013.04.022*

Sources

Thermochemistry of 1-bromoadamantane in binary mixtures of water-aprotic solvent:	https://www.doi.org/10.1016/j.tca.2005.11.035
Thermodynamics of Mixtures Containing a Very Strongly Polar Compound. 10. Liquid-Liquid Equilibria for N,N-Dimethylacetamide + Selected Alkanes:	https://www.doi.org/10.1021/je400487e
Effect of ionic liquid on the solvation behavior of nonaqueous N,N'-disalicylidenephenylenediamine Schiff base (Salophen) solutions at 298.15 K:	https://www.doi.org/10.1016/j.jct.2013.04.022
Measurement and correlation of the solubility of rivaroxaban (form I) in binary mixtures of ethyl acetate with tetrahydrofuran, N,N-dimethylformamide, and N,N-dimethylacetamide from T = (278.15 to 318.15) K:	https://www.doi.org/10.1016/j.jct.2015.10.016
Density, Viscosity, and Electrical Conductivity of Protic Amidium Bis(trifluoromethanesulfonyl)amide Ionic Liquids:	https://www.doi.org/10.1021/acs.jced.6b00575
Experimental isobaric vapour-liquid equilibrium data for the binary system (N,N-dimethylacetamide + dimethyl sulfoxide) and the quaternary system (sec-butyl acetate + sec-butyl alcohol + N,N-dimethylacetamide + dimethyl sulfoxide) at 101.3 kPa:	https://www.doi.org/10.1016/j.jct.2019.05.005
Volumetric and compressibility behaviour of ionic liquid, 1-n-butyl-3-methylimidazolium hexafluorophosphate in organic solvents at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2005.07.018
A model to calculate concentration dependent surface tension of binary systems:	https://www.doi.org/10.1016/j.fluid.2016.04.007
Determination and correlation of solubility and solution thermodynamics of musk xylene in different pure solvents:	https://www.doi.org/10.1016/j.jct.2019.03.029
Thermodynamic Properties of Binary Mixtures Containing N,N-Dimethylacetamide + 2-Alkanol: Experimental Data and Modeling:	https://www.doi.org/10.1021/je400917j
Solubility and Dissolution Thermodynamic Data of Mefenamic Acid Crystals in Different Classes of Organic Solvents:	https://www.doi.org/10.1021/je400714f
Critical Assessment of CO2 Solubility in Volatile Solvents at 298.15 K:	https://www.doi.org/10.1021/je101161d
Solubility of Tripolycyanamide and Cyanuric Acid in Ethanediol, N,N-Dimethylformamide, and N,N-Dimethylacetamide from (301.07 to 363.35) K:	https://www.doi.org/10.1021/je0342015
PrhoT measurement and PC-SAFT modeling of N,N-dimethyl formamide, N-methyl formamide, N,N-dimethyl acetamide, and ethylenediamine from T = (293.15–423.15) K and pressures up to 95 MPa:	https://www.doi.org/10.1016/j.fluid.2016.08.014
Vapor-liquid equilibria of difluoromethane + dimethylether and 1,1-difluoroethane + dimethylether systems:	https://www.doi.org/10.1016/j.fluid.2013.03.009
Limiting partial molar volumes and expansibilities of ammonium and tetraalkylammonium ... in diethylene glycol and N-methylacetamide:	https://www.doi.org/10.1016/j.jct.2005.05.008
Interpretation of Association Behavior and Molecular Interactions in Binary Mixtures through Acoustics and Volumetric Data:	https://www.doi.org/10.1007/s10765-016-2096-3
Solubility of Hydrogen Sulfide in N-Methylacetamide and N,N-Dimethylacetamide: Experimental Measurement and Modeling:	https://www.doi.org/10.1021/je500478t
Densities, Viscosities, and Refractive Indices for Binary and Ternary Mixtures of N,N-Dimethylacetamide (1) + 2-Methylbutan-2-ol (2) + Ethyl Acetate (3) at 298.15 K for the Liquid Region and at Ambient Pressure:	https://www.doi.org/10.1021/je050538q
Excess Molar Volumes and Kinematic Viscosities for Binary Mixtures of Dipropylene Glycol Monopropyl Ether and Dipropylene Glycol Mono-tert-Butyl Ether with 2-Pyrrolidinone, N-Methyl-2-pyrrolidinone, N,N-Dimethylformamide, and N,N-Dimethylacetamide:	https://www.doi.org/10.1021/je049657g
Adiabatic Compressibilities of Divalent Transition Metal Perchlorates and Chlorides in N,N-Dimethylacetamide:	https://www.doi.org/10.1021/je8004134
Volumetric properties of binary mixtures of (water + organic solvents) at temperatures between 288.15 K and 303.15 K at p = 0.1 MPa:	https://www.doi.org/10.1016/j.jct.2005.07.012
Volumetric Properties of the Ionic Liquid, 1-Butyl-3-methylimidazolium Tetrafluoroborate, in Organic Solvents at T = 298.15 K:	https://www.doi.org/10.1007/s10765-008-0395-z
Isobaric Vapor-Liquid Equilibrium Measurements on Binary Mixtures Formed by ... Cyclohexane at 94.7 kPa:	https://www.doi.org/10.1021/je020148t
Solubility of Anthracene in N,N-Dimethyformamide, N,N-Dimethylacetamide, and N-Methyl-2-pyrrolidone:	https://www.doi.org/10.1021/je060454x
Influence of Aprotic Cosolvents on the Thermophysical Properties of Imidazolium-Based Ionic Liquid:	https://www.doi.org/10.1021/acs.jced.7b00002
Vapor-Liquid Equilibrium Data for Binary Systems of N,N-Dimethylacetamide with Cyclohexene, Cyclohexane, and Benzene Separately at Atmospheric Pressure:	https://www.doi.org/10.1021/acs.jced.5b00011

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Densities and Isothermal Compressibilities at Pressures up to 20 MPa of the Systems N,N-Dimethylformamide or N,N-Dimethylacetamide + α,ω-Dichloroalkane:	https://www.doi.org/10.1021/je700096m
Densities and volumetric properties of binary mixtures of N,N-dimethylformamide/N,N-dimethylacetamide with some alkyl acrylates at temperatures from 288.15 K to 318.15 K:	https://www.doi.org/10.1016/j.jct.2012.10.015
Thermodynamics of Mixtures Containing a Strongly Polar Compound. 8. Liquid-Liquid Equilibria for N,N-Dialkylamide + Selected N-Alkanes:	https://www.doi.org/10.1021/je050428j
Measurement and Correlation of Isothermal Vapor Liquid Equilibrium of 1,1,1,3,3-Pentafluoropropane + N,N-Dimethylacetamide and 1,1,1,3,3,3-Hexafluoropropane + N,N-Dimethylacetamide/Diethylene Glycol Dimethyl Ether Systems:	https://www.doi.org/10.1021/je500801w
Physics and chemistry of an ionic liquid in some industrially important solvent media probed by physicochemical techniques:	https://www.doi.org/10.1016/j.jct.2012.09.003
Effect of various substituents on benzene ring and their impact on volumetric, acoustic and transport properties of binary liquid mixtures with dimethylacetamide:	https://www.doi.org/10.1016/j.fluid.2015.03.048
Density and Viscosity Measurements for Binary Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([Emim][BF4]) with Dimethylacetamide, Dimethylformamide, and Dimethyl Sulfoxide:	https://www.doi.org/10.1021/acs.jced.5b00753
Isentropic compressibilities of (amide + water) mixtures: A comparative study:	https://www.doi.org/10.1016/j.jct.2007.05.015
Thermodynamic Properties and Crystal Structures of the Adductive 2,6-Naphthalenedicarboxylic Acid Crystallization with N,N-Dimethyl Acetamide and N-Methyl Pyrrolidone:	https://www.doi.org/10.1021/je2009973
Activity coefficients and excess Gibbs energy of binary mixtures of N,N-dimethylformamide with selected compounds at 95.3 kPa:	https://www.doi.org/10.1016/j.fluid.2008.07.018
Apparent Molar Compressibilities and Volumes of Some 1,1-Electrolytes in N,N-Dimethylacetamide and N,N-Dimethylformamide:	https://www.doi.org/10.1021/je060301+
Conductance and Ionic Association of Imidazolium-Based Ionic Liquids in N,N-Dimethylacetamide:	https://www.doi.org/10.1021/acs.jced.6b00354
Probing molecular interactions of ionic liquid in industrially important solvents by means of conductometric and spectroscopic approach:	https://www.doi.org/10.1016/j.tca.2013.02.022
Bubble temperature measurements on seven binary mixtures formed by ethylbenzene at 94.7 kPa:	https://www.doi.org/10.1016/j.jct.2004.11.015
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C127195&Units=SI
Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K:	https://www.doi.org/10.1021/je400803f
Coexistence curves of critical nonaqueous microemulsions of (AOT + DMA + dodecane) and (AOT + DMA + decane):	https://www.doi.org/10.1016/j.jct.2005.03.010
Determination and correlation of liquid-liquid equilibrium data for the dichloromethane + water + N,N-dimethylacetamide + NaCl system:	https://www.doi.org/10.1016/j.fluid.2015.02.022
Densities and Isothermal Compressibilities at Pressures up to 20 MPa of the Systems N,N-Dimethylformamide or N,N-Dimethylacetamide + α,ω-Dichloroalkane:	https://www.doi.org/10.1021/je700339f
Measurement and Correlation of Isothermal Vapor Liquid Equilibrium of Pentafluoroethane + N,N-Dimethylacetamide, Pentafluoroethane + N-Methyl-2-pyrrolidone, and 1,1,1,2-Tetrafluoroethane + N,N-Dimethylacetamide Systems:	https://www.doi.org/10.1021/je4007822
Vapor Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide at 101.3 kPa:	https://www.doi.org/10.1021/acs.jced.9b00535
Solvation of ionic liquids based on N-methyl-N-alkylmorpholinium cations in N,N-dimethylformamide and N,N-dimethylacetamide - Volumetric and compressibility studies:	https://www.doi.org/10.1016/j.jct.2017.12.018
Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K:	https://www.doi.org/10.1021/je5002945
(Vapour + liquid) equilibria and excess molar enthalpies for binary mixtures containing N,N-dialkylamides and α,ω-dichloroalkanes:	https://www.doi.org/10.1016/j.jct.2007.01.017
Excess molar enthalpies and (vapour + liquid) equilibria for mixtures containing N,N-dialkylamides and 1-alkanols:	https://www.doi.org/10.1016/j.jct.2007.06.017
Effect of N,N'-bis(2-pyridylmethylidene)-1,2-diiminoethane Schiff base (BPIE) on the thermodynamic properties of the ionic liquid 1-hexyl-3-methylimidazolium chloride in N,N-dimethylacetamide solvent at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2014.09.022
Solubility of Terephthalic Acid in Aqueous N-Methylpyrrolidone and N,N-Dimethylacetamide Solvents at (303.2 to 363.2) K:	https://www.doi.org/10.1021/je700635r
PTx 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
Density, Viscosity, and Speed of Sound of (1-Octanol + 2-Methoxyethanol), (1-Octanol + N,N-Dimethylacetamide), and (1-Octanol + Acetophenone) at Temperatures of (298.15, 303.15, and 308.15) K:	https://www.doi.org/10.1021/je100170v
Isobaric vapour-liquid equilibrium measurements and extractive distillation process for the azeotrope of (N,N-diethylisopropylamine + acetone):	https://www.doi.org/10.1016/j.jct.2018.03.019
Measurement and correlation of the solubility of 4,4'-oxydianiline in different organic solvents:	https://www.doi.org/10.1016/j.fluid.2013.07.010
Adducts of antimony triiodide and 2-aminomethylpyridines: Synthesis, characterization and thermochemistry:	https://www.doi.org/10.1016/j.tca.2005.08.006
(Vapour + liquid) equilibrium in (N,N-dimethylacetamide + ethanol + water) at the temperature 313.15 K:	https://www.doi.org/10.1016/j.jct.2005.08.001
Liquid-Liquid Equilibria for Water + Benzonitrile + N-Methylacetamide, or + N,N-Dimethylacetamide:	https://www.doi.org/10.1021/je9007074
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Density and speed of sound of lithium bromide with organic solvents: Measurement and correlation:	https://www.doi.org/10.1016/j.jct.2007.04.006
Vapor Liquid Equilibrium for Ternary and Binary Mixtures of 2-Isopropoxypropane, 2-Propanol, and N,N-Dimethylacetamide at 101.3 kPa:	https://www.doi.org/10.1021/je300994y
Isobaric vapor-liquid equilibrium for binary system of N,N-dimethylformamide + N,N-dimethylacetamide and quaternary system of sec-butyl alcohol + sec-butyl acetate + N,N-dimethylformamide + N,N-dimethylacetamide at 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2015.12.052
Isothermal Vapor Liquid Equilibrium Measurements of 1,1-Difluoroethane + N,N-Dimethylformamide and N,N-Dimethylacetamide:	https://www.doi.org/10.1021/je3013793
Density, Viscosity, Refractive Index, and Speed of Sound for Binary Mixtures of 1,4-Dioxane with Different Organic Liquids at (298.15, 303.15, and 308.15) K:	https://www.doi.org/10.1021/je049609w
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Solubility of Etoricoxib in Aqueous Solutions of 1,4-Butanediol, 1,4-Dioxane, N,N-Dimethylacetamide, N,N-Dimethylformamide, Dimethyl Sulfoxide, and Ethanol at 298.2 K:	https://www.doi.org/10.1021/acs.jced.5b00201

Isobaric vapor-liquid equilibrium for ternary system of sec-butyl alcohol + sec-butyl acetate + N,N-dimethyl-acetamide at 101.3 kPa:	https://www.doi.org/10.1016/j.fluid.2015.03.013
Vapor-Liquid Equilibrium and Excess Enthalpy Data for Systems Containing N,N-Dimethylacetamide:	https://www.doi.org/10.1021/acs.jced.7b00119
Partial Molar Volumes of N,N'-1,2-Ethyl-bis(salicyladimine) Schiff Base (Salen) in Organic Solvents at T = (298.15 to 318.15) K:	https://www.doi.org/10.1021/je100369a
Enthalpies of vaporization of N,N-dialkyl monoamides at 298.15K:	https://www.doi.org/10.1016/j.tca.2009.05.007
Thermodynamic properties of (LiCl + N,N-dimethylacetamide) and (LiBr + N,N-dimethylacetamide) at temperatures from (323.15 to 423.15) K:	https://www.doi.org/10.1016/j.jct.2004.09.015
Densities and volumetric properties of (acetonitrile + an amide) binary mixtures at temperatures between 293.15 K and 318.15 K:	https://www.doi.org/10.1016/j.jct.2006.01.015
Thermophysical study of the binary mixtures of N,N-dimethylacetamide with 2-propanol and 2-butanol:	https://www.doi.org/10.1016/j.tca.2017.06.023
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Excess volumes of mixing in (N,N-dimethylacetamide + methanol + water) and (N,N-dimethylacetamide + ethanol + water) at the temperature 313.15 K:	https://www.doi.org/10.1016/j.jct.2007.09.009
Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide:	https://www.doi.org/10.1021/je049950g
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 modeling, solvent effect and preferential solvation of 6-chloropurine in several aqueous co-solvent mixtures between 283.15 K and 328.15 K:	https://www.doi.org/10.1016/j.jct.2018.07.028
Vapor-Liquid Equilibrium Data for N-Methylacetamide and N,N-Dimethylacetamide with Cumene at 97.3 kPa:	https://www.doi.org/10.1021/je800481n
Volumes, Heat Capacities, and Compressibilities of the Mixtures of Acetonitrile with N,N-Dimethylacetamide and Propylene Carbonate:	https://www.doi.org/10.1021/je1005483
Densities, ultrasonic speeds, viscosities and excess properties of binary mixtures of methyl methacrylate with N,N-dimethylformamide and N,N-dimethylacetamide at different temperatures:	https://www.doi.org/10.1016/j.jct.2013.01.013
Determination and Correlation of Solubility of N-tert-butylacrylamide in seven Different Solvents at Temperatures between (279.15 and 353.15) K:	https://www.doi.org/10.1021/acs.jced.5b00135
Solid–Liquid Equilibrium (SLE) of the N,N-Dimethylacetamide (DMA) + MCl (M = Li, Na, K, Rb, and Cs) + Water Ternary Systems at Multiple Temperatures:	https://www.doi.org/10.1021/je400959n
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
Vapour pressures and enthalpies of vaporisation of N,N-di-alkylacetamides:	https://www.doi.org/10.1016/j.fluid.2019.112241
Solution Thermodynamics of Benzotriazole in Different Pure Solvents:	https://www.doi.org/10.1021/acs.jced.7b01085
Apparent molar volumes and expansibilities of H2O and D2O in N,N-dimethylformamide and N,N-dimethylacetamide in the range of T = (278.15 to 318.15) K at p = 0.1 MPa:	https://www.doi.org/10.1016/j.jct.2012.04.007
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1383
Measurement and Thermodynamic Modeling of Ternary (Liquid + Liquid) Equilibrium for Extraction of N,N-Dimethylacetamide from Aqueous Solution with Different Solvents:	https://www.doi.org/10.1021/acs.jced.7b00194
A comparative analysis: Isobaric vapor-liquid equilibrium of acetic acid + N,N-dimethylacetamide + 1-ethyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]-imide:	https://www.doi.org/10.1016/j.fluid.2015.11.007
Thermodynamics of amide + amine mixtures. 5. Excess molar enthalpies of N,N-dimethylformamide or N,N-dimethylacetamide + N-propylpropan-1-amine, + N-butylbutan-1-amine, + butan-1-amine, or + hexan-1-amine systems at 298.15 K. Application of the ERAS model:	https://www.doi.org/10.1016/j.fluid.2019.112283
Effect of organic solvents on lowering the viscosity of 1-hexyl-3-methylimidazolium chloride:	https://www.doi.org/10.1016/j.jct.2017.07.016
Solvation of alkaline earth metal ions in N,N-dimethylformamide and N,N-dimethylacetamide: A volumetric and acoustic study:	https://www.doi.org/10.1016/j.jct.2015.08.033
Density and Speed of Sound of Binary Mixtures of Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate, and N,N-Dimethylformamide, and N,N-Dimethylacetamide at Temperature Range of 293.15-343.15 K:	https://www.doi.org/10.1021/acs.jced.6b00496
Solubilities of Pioglitazone Hydrochloride in Different Solvents:	https://www.doi.org/10.1021/je101230a
Thermodynamic properties of N,N-dimethylformamide and N,N-dimethylacetamide:	https://www.doi.org/10.1016/j.jct.2007.02.009
Conductometric, refractometric and FT-IR spectroscopic study of [EMIm]NO3, [EMIm]CH3SO3, and [EMIm]OTs in N,N-dimethyl formamide, N,N-dimethyl acetamide and dimethyl sulfoxide:	https://www.doi.org/10.1016/j.tca.2014.11.010
Measurement and PC-SAFT Modeling: Density, Speed of Sound, Refractive Index, and Viscosity of the Binary Mixtures of N,N-Dimethylacetamide with Methanol and Ethanol:	https://www.doi.org/10.1021/acs.jced.5b01000
Effect of solvent on the volumetric behavior of N,N'- salicylidenephenyl diamine (Salophen) Schiff base at different temperatures (288.15 - 318.15) K:	https://www.doi.org/10.1016/j.fluid.2013.05.001
Determination and Correlation of Liquid Liquid Equilibrium Data for the Ternary Dichloromethane + Water + N,N-Dimethylacetamide System:	https://www.doi.org/10.1021/je401001z
Thermodynamic properties of vanadyl (N,N-salicylideneethylendiamine) Schiff base complex in ionic liquid + N,N-dimethylacetamide solutions:	https://www.doi.org/10.1016/j.fluid.2011.10.026
Measurement and prediction of dabigatran etexilate mesylate Form II solubility in mono-solvents and mixed solvents:	https://www.doi.org/10.1016/j.jct.2016.07.048
Apparent molar volumes and compressibilities of lanthanum, gadolinium, lutetium and sodium trifluoromethanesulfonates in N,N-dimethylformamide and N,N-dimethylacetamide:	https://www.doi.org/10.1016/j.jct.2012.11.004
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

affp:	Proton affinity
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
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
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume