

Methyldiethanolamine

Other names:	2,2'-(Methylimino)diethanol
	2,2'-(methylazanediy)bis(ethan-1-ol)
	2,2'-methyliminodiethanol
	2-(N-2-Hydroxyethyl-N-methylamino)ethanol
	Bis(2-hydroxyethyl)methylamine
	Diethanolmethylamine
	Ethanol, 2,2'-(methylimino)bis-
	Ethanol, 2,2'-(methylimino)di-
	Eve
	MDEA
	MDEA (diol)
	Methyl diethanolamine
	Methylbis(2-hydroxyethyl)amine
	Methyliminodiethanol
	N,N-Bis(2-hydroxyethyl)methylamine
	N,N-Di(2-hydroxyethyl)-N-methylamine
	N-(2-Hydroxyethyl)-N-methylethanolam
	N-Methyl-2,2'-iminodiethanol
	N-Methyl-2,2-iminodiethanol
	N-Methylaminodiglycol
	N-Methyldiethanolamine
	N-Methyldiethanolimine
	N-Methylimino-2,2'-diethanol
	N-Methyliminodiethanol
	NSC 11690
	USAF DO-52
Inchi:	InChI=1S/C5H13NO2/c1-6(2-4-7)3-5-8/h7-8H,2-5H2,1H3
InchiKey:	CRVGTESFCCXCTH-UHFFFAOYSA-N
Formula:	C5H13NO2
SMILES:	CN(CCO)CCO
Mol. weight [g/mol]:	119.16
CAS:	105-59-9

Physical Properties

Property code	Value	Unit	Source
gf	-171.64	kJ/mol	Joback Method

hf	-383.46	kJ/mol	Joback Method
hfus	19.90	kJ/mol	Joback Method
hvap	62.12	kJ/mol	Joback Method
log10ws	0.99		Crippen Method
logp	-1.097		Crippen Method
mcvol	103.030	ml/mol	McGowan Method
pc	4160.00	kPa	Critical Point and Vapor Pressure Measurements for 17 Compounds by a Low Residence Time Flow Method
tb	520.28	K	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
tb	520.45	K	NIST Webbook
tb	520.20	K	NIST Webbook
tc	667.49	K	Joback Method
tf	252.15	K	NIST Webbook
tf	250.00	K	Thermodynamics of aqueous solutions of methyldiethanolamine and diisopropanolamine.
vc	0.371	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.80	J/mol×K	510.60	Joback Method
cpg	253.06	J/mol×K	536.75	Joback Method
cpg	260.98	J/mol×K	562.90	Joback Method
cpg	268.56	J/mol×K	589.04	Joback Method
cpg	275.81	J/mol×K	615.19	Joback Method
cpg	282.76	J/mol×K	641.34	Joback Method
cpg	289.41	J/mol×K	667.49	Joback Method
cpl	304.00	J/mol×K	353.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K

cpl	276.00	J/mol×K	308.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	290.00	J/mol×K	333.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	279.00	J/mol×K	313.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	282.00	J/mol×K	318.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	285.00	J/mol×K	323.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	288.00	J/mol×K	328.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	273.00	J/mol×K	303.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	294.00	J/mol×K	338.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	298.00	J/mol×K	343.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K

cpl	301.00	J/mol×K	348.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
dvisc	0.0177900	Pa×s	328.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0731000	Pa×s	298.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0558900	Pa×s	303.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0434500	Pa×s	308.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0045390	Pa×s	363.15	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids	
dvisc	0.0067560	Pa×s	353.15	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids	
dvisc	0.0341500	Pa×s	313.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	

dvisc	0.0152560	Pa×s	333.15	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids	
dvisc	0.0376820	Pa×s	313.15	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids	
dvisc	0.0731030	Pa×s	298.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0586210	Pa×s	303.15	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids	
dvisc	0.0098550	Pa×s	343.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems	
dvisc	0.0146000	Pa×s	333.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems	
dvisc	0.0218800	Pa×s	323.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems	

dvisc	0.0347900	Pa×s	313.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.0576900	Pa×s	303.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.0146600	Pa×s	333.00	Density and Viscosity of Aqueous Solutions of (2-Piperidineethanol + Piperazine) from (288 to 333) K and Surface Tension of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine), (2-Amino-2-methyl-1-propanol + Piperazine), and (2-Piperidineethanol + Piperazine) from (293 to 323) K
dvisc	0.0347300	Pa×s	313.00	Density and Viscosity of Aqueous Solutions of (2-Piperidineethanol + Piperazine) from (288 to 333) K and Surface Tension of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine), (2-Amino-2-methyl-1-propanol + Piperazine), and (2-Piperidineethanol + Piperazine) from (293 to 323) K

dvisc	0.1420000	Pa×s	288.00	Density and Viscosity of Aqueous Solutions of (2-Piperidineethanol + Piperazine) from (288 to 333) K and Surface Tension of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine), (2-Amino-2-methyl-1-propanol + Piperazine), and (2-Piperidineethanol + Piperazine) from (293 to 323) K
dvisc	0.0146600	Pa×s	333.00	Density and Viscosity of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine) and (2-Amino-2-methyl-1-propanol + Piperazine) from (288 to 333) K
dvisc	0.0347300	Pa×s	313.00	Density and Viscosity of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine) and (2-Amino-2-methyl-1-propanol + Piperazine) from (288 to 333) K
dvisc	0.0146300	Pa×s	333.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0146600	Pa×s	333.00	Density and Viscosity of Aqueous Solutions of 2-Piperidineethanol, (2-Piperidineethanol + Monoethanolamine), and (2-Piperidineethanol + Diethanolamine) from (288 to 333) K

dvisc	0.0347300	Pa×s	313.00	Density and Viscosity of Aqueous Solutions of 2-Piperidineethanol, (2-Piperidineethanol + Monoethanolamine), and (2-Piperidineethanol + Diethanolamine) from (288 to 333) K
dvisc	0.1420200	Pa×s	288.00	Density and Viscosity of Aqueous Solutions of 2-Piperidineethanol, (2-Piperidineethanol + Monoethanolamine), and (2-Piperidineethanol + Diethanolamine) from (288 to 333) K
dvisc	0.0052770	Pa×s	363.15	Viscosities for Aqueous Solutions of N-Methyldiethanolamine from 313.15 to 363.15 K
dvisc	0.0070820	Pa×s	353.15	Viscosities for Aqueous Solutions of N-Methyldiethanolamine from 313.15 to 363.15 K
dvisc	0.0143770	Pa×s	333.15	Viscosities for Aqueous Solutions of N-Methyldiethanolamine from 313.15 to 363.15 K
dvisc	0.0346170	Pa×s	313.15	Viscosities for Aqueous Solutions of N-Methyldiethanolamine from 313.15 to 363.15 K
dvisc	0.0062900	Pa×s	358.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine

dvisc	0.0086000	Pa×s	348.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0271500	Pa×s	318.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0041200	Pa×s	373.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0047200	Pa×s	368.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0054300	Pa×s	363.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0062800	Pa×s	358.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine
dvisc	0.0073100	Pa×s	353.15	Viscosity Measurement and Correlation of Unloaded and CO2-Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine

dvisc	0.0086100	Pa×s	348.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0102100	Pa×s	343.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.0122000	Pa×s	338.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
dvisc	0.1420000	Pa×s	288.00	Density and Viscosity of Aqueous Solutions of (N-Methyldiethanolamine + Piperazine) and (2-Amino-2-methyl-1-propanol + Piperazine) from (288 to 333) K	
dvisc	0.0218200	Pa×s	323.15	Viscosity Measurement and Correlation of Unloaded and CO ₂ -Loaded Aqueous Solutions of N-Methyldiethanolamine-Piperazine	
hvapt	73.00	kJ/mol	455.00	NIST Webbook	
hvapt	71.50	kJ/mol	422.00	NIST Webbook	
pvap	2.98	kPa	413.43	Ebulliometric Determination of Vapor	
pvap	30.00	kPa	479.40	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa	
pvap	7.98	kPa	435.50	Ebulliometric Determination of Vapor	

pvap	6.48	kPa	430.48	Ebulliometric Determination of Vapor
pvap	5.48	kPa	426.65	Ebulliometric Determination of Vapor
pvap	4.48	kPa	421.96	Ebulliometric Determination of Vapor
pvap	3.48	kPa	416.72	Ebulliometric Determination of Vapor
pvap	40.00	kPa	488.14	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
pvap	2.48	kPa	409.69	Ebulliometric Determination of Vapor
pvap	101.30	kPa	520.28	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
pvap	20.00	kPa	467.40	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
pvap	30.00	kPa	479.37	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa

pvap	40.00	kPa	488.17	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
pvap	20.00	kPa	467.34	Vapor Liquid Equilibria for Three Binary Systems of N-Methylethanolamine, N-Methyldiethanolamine, and Ethylene Glycol at P = (40.0, 30.0, and 20.0) kPa
rfi	1.46008		303.10	Physical Properties of Piperazine (PZ) Activated Aqueous Solutions of 2-Amino-2-hydroxymethyl-1, 3-propanediol (AHPD + PZ)
rfi	1.46840		293.15	Experimental Vapor-Liquid Equilibrium Data for Binary Mixtures of Methyldiethanolamine in Water and Ethylene Glycol under Vacuum
rhoI	1036.83	kg/m3	298.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1041.60	kg/m3	293.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K

rhoI	1037.86	kg/m3	298.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1034.10	kg/m3	303.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1030.32	kg/m3	308.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1026.52	kg/m3	313.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1022.70	kg/m3	318.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1018.88	kg/m3	323.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K

rhoI	1015.02	kg/m3	328.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1011.43	kg/m3	333.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1007.25	kg/m3	338.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1003.32	kg/m3	343.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	999.38	kg/m3	348.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	995.41	kg/m3	353.14	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K

rhoI	991.41	kg/m3	358.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	987.39	kg/m3	363.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K
rhoI	1025.00	kg/m3	313.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K
rhoI	1017.40	kg/m3	323.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K
rhoI	1009.60	kg/m3	333.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K
rhoI	1044.50	kg/m3	288.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K

rhoI	1033.06	kg/m3	303.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1029.26	kg/m3	308.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1025.45	kg/m3	313.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1021.62	kg/m3	318.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K

rhoI	1017.78	kg/m3	323.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1039.90	kg/m3	293.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions
rhoI	1032.40	kg/m3	303.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions
rhoI	1024.90	kg/m3	313.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions
rhoI	1017.20	kg/m3	323.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions
rhoI	1009.50	kg/m3	333.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions
rhoI	1001.70	kg/m3	343.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions

rhoI	993.90	kg/m3	353.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	986.00	kg/m3	363.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	1047.53	kg/m3	283.15	Densities and Excess Molar Volumes of Aqueous Solutions of n-Methyldiethanolamine (MDEA) at Temperatures from (283.15 to 363.15) K	
rhoI	970.22	kg/m3	383.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	962.03	kg/m3	393.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	953.71	kg/m3	403.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	945.29	kg/m3	413.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	

rhoI	936.81	kg/m3	423.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyl-diethanolamine Solutions
rhoI	1046.36	kg/m3	288.15	Excess Enthalpy and Excess Volume for Pyridine + Methyl-diethanolamine and Pyridine + Ethanolamine Mixtures
rhoI	1036.81	kg/m3	298.15	Excess Enthalpy and Excess Volume for Pyridine + Methyl-diethanolamine and Pyridine + Ethanolamine Mixtures
rhoI	994.01	kg/m3	353.15	Excess Enthalpy and Excess Volume for Pyridine + Methyl-diethanolamine and Pyridine + Ethanolamine Mixtures
rhoI	1033.80	kg/m3	303.15	Density, Surface Tension, and Viscosity of Ionic Liquids (1-Ethyl-3-methylimidazolium diethylphosphate and 1,3-Dimethylimidazolium dimethylphosphate) Aqueous Ternary Mixtures with MDEA
rhoI	1026.70	kg/m3	313.15	Density, Surface Tension, and Viscosity of Ionic Liquids (1-Ethyl-3-methylimidazolium diethylphosphate and 1,3-Dimethylimidazolium dimethylphosphate) Aqueous Ternary Mixtures with MDEA

rhoI	1018.90	kg/m3	323.15	Density, Surface Tension, and Viscosity of Ionic Liquids (1-Ethyl-3-methylimidazolium diethylphosphate and 1,3-Dimethylimidazolium dimethylphosphate) Aqueous Ternary Mixtures with MDEA
rhoI	1040.06	kg/m3	293.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	1032.47	kg/m3	303.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	1024.86	kg/m3	313.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	1017.21	kg/m3	323.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K

rhoI	1009.51	kg/m3	333.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	1001.73	kg/m3	343.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	993.89	kg/m3	353.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	985.96	kg/m3	363.15	Volumetric Properties of Binary Mixtures of 3-(Methylamino)propylamine with Water, N-Methyldiethanolamine, N,N-Dimethylethanolamine, and N,N-Diethylethanolamine from (283.15 to 363.15) K
rhoI	1038.22	kg/m3	298.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K
rhoI	1034.49	kg/m3	303.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K

rhoI	1030.75	kg/m3	308.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1026.99	kg/m3	313.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1023.25	kg/m3	318.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1019.47	kg/m3	323.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1015.64	kg/m3	328.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1011.80	kg/m3	333.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
rhoI	1007.92	kg/m3	338.15	Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	

rhoI	994.50	kg/m3	353.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K
rhoI	1002.20	kg/m3	343.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K
rhoI	1010.00	kg/m3	333.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K
rhoI	1017.70	kg/m3	323.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K
rhoI	1025.30	kg/m3	313.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K

rhoI	1036.80	kg/m3	298.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K	
rhoI	1048.00	kg/m3	283.15	Density and Viscosity of the Nonaqueous and Aqueous Mixtures of Methyldiethanolamine and Monoethylene Glycol at Temperatures from 283.15 to 353.15 K	
rhoI	1002.20	kg/m3	343.15	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid	
rhoI	1009.90	kg/m3	333.15	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid	
rhoI	1017.50	kg/m3	323.15	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid	
rhoI	1025.10	kg/m3	313.15	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid	

rhoI	1036.40	kg/m3	298.15	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid	
rhoI	1037.00	kg/m3	298.15	Study of CO2 Absorption into Phase Change Solvents MAPA and DEEA	
rhoI	1029.40	kg/m3	308.00	Measurement and Correlation of the Physicochemical Properties of Novel Aqueous Bis(3-aminopropyl)amine and Its Blend with N-Methyldiethanolamine for CO2 Capture	
rhoI	1018.50	kg/m3	323.00	Measurement and Correlation of the Physicochemical Properties of Novel Aqueous Bis(3-aminopropyl)amine and Its Blend with N-Methyldiethanolamine for CO2 Capture	
rhoI	1036.70	kg/m3	298.00	Measurement and Correlation of the Physicochemical Properties of Novel Aqueous Bis(3-aminopropyl)amine and Its Blend with N-Methyldiethanolamine for CO2 Capture	
rhoI	1017.12	kg/m3	323.15	Volumetric and viscometric properties of ternary solution of (N-methyldiethanolamine + monoethanolamine + ethanol)	

rhoI	1024.76	kg/m3	313.15	Volumetric and viscometric properties of ternary solution of (N-methyldiethanolamine + monoethanolamine + ethanol)
rhoI	1032.60	kg/m3	303.15	Volumetric and viscometric properties of ternary solution of (N-methyldiethanolamine + monoethanolamine + ethanol)
rhoI	1040.50	kg/m3	293.15	Volumetric and viscometric properties of ternary solution of (N-methyldiethanolamine + monoethanolamine + ethanol)
rhoI	1002.76	kg/m3	343.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)
rhoI	1010.80	kg/m3	333.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)
rhoI	1017.80	kg/m3	323.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)

rhoI	1025.83	kg/m3	313.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)
rhoI	1033.60	kg/m3	303.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)
rhoI	1041.12	kg/m3	293.15	Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) into the aqueous solutions of (N-methyl diethanolamine + sulfolane + water)
rhoI	995.05	kg/m3	353.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	998.62	kg/m3	348.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)

rhoI	1002.33	kg/m3	343.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1006.37	kg/m3	338.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1010.07	kg/m3	333.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1013.89	kg/m3	328.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1017.55	kg/m3	323.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)

rhoI	1021.34	kg/m3	318.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1025.14	kg/m3	313.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1028.70	kg/m3	308.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1032.55	kg/m3	303.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1036.42	kg/m3	298.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)

rhoI	1040.31	kg/m3	293.15	Preparation and characterization of amine (N-methyl diethanolamine)-based transition temperature mixtures (deep eutectic analogues solvents)
rhoI	1002.30	kg/m3	343.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1010.00	kg/m3	333.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1017.80	kg/m3	323.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1025.40	kg/m3	313.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures

rhoI	1032.80	kg/m3	303.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures	
rhoI	1040.60	kg/m3	293.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures	
rhoI	986.47	kg/m3	363.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	994.40	kg/m3	353.14	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	1002.25	kg/m3	343.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	1010.03	kg/m3	333.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	1025.40	kg/m3	313.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	

rhoI	1033.02	kg/m3	303.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	1018.90	kg/m3	323.20	Low pressure solubilities of CO2 in guanidinium trifluoromethanesulfonate-MDEA systems	
rhoI	1026.70	kg/m3	313.20	Low pressure solubilities of CO2 in guanidinium trifluoromethanesulfonate-MDEA systems	
rhoI	1037.70	kg/m3	293.15	Experiment and model for the viscosity of carbonated MDEA - MEA aqueous solutions	
rhoI	1040.60	kg/m3	293.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	
rhoI	978.28	kg/m3	373.15	Densities of Partially Carbonated Aqueous Diethanolamine and Methyldiethanolamine Solutions	
rhoI	1017.74	kg/m3	323.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K	

speedsl	1570.13	m/s	298.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1493.40	m/s	323.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1508.79	m/s	318.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K

speedsl	1524.19	m/s	313.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1539.47	m/s	308.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1554.81	m/s	303.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K

speedsl	1598.80	m/s	288.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1583.10	m/s	293.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1564.10	m/s	298.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1546.00	m/s	303.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1531.00	m/s	308.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C

speedsl	1516.10	m/s	313.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1503.20	m/s	318.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1490.40	m/s	323.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1585.48	m/s	293.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
srf	0.04	N/m	308.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol

srf	0.04	N/m	333.15	Viscosity, Refractive Index, Surface Tension, and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
srf	0.04	N/m	323.15	Viscosity, Refractive Index, Surface Tension, and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
srf	0.04	N/m	313.15	Viscosity, Refractive Index, Surface Tension, and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
srf	0.04	N/m	303.15	Viscosity, Refractive Index, Surface Tension, and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K	
srf	0.04	N/m	313.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol	
srf	0.04	N/m	298.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol	
srf	0.04	N/m	288.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol	

srf	0.04	N/m	293.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.04	N/m	303.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	1.72666e+02
Coeff. B	-1.85482e+04
Coeff. C	-2.12756e+01
Coeff. D	3.18819e-06
Temperature range (K), min.	252.15
Temperature range (K), max.	678.00

Datasets

Mass density, kg/m3

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m3 - Liquid
100.00	298.15	1036.0
100.00	303.15	1032.4
100.00	308.15	1028.6
100.00	313.15	1024.8
100.00	318.15	1021.0
100.00	323.15	1017.2
100.00	328.15	1013.3
100.00	333.15	1009.4

100.00	338.15	1005.6
100.00	343.15	1001.7
100.00	348.15	997.7
100.00	353.15	993.8
100.00	358.15	989.9
100.00	363.15	985.9
700.00	373.15	978.6
700.00	383.15	970.3
700.00	393.15	962.1
700.00	403.15	953.9
700.00	413.15	945.6
700.00	423.15	937.0

Reference

<https://www.doi.org/10.1021/je300345m>

Temperature, K	Pressure, kPa	Mass density, kg/m3
313.09	1007.00	1025.3
313.09	1989.00	1025.8
313.09	3027.00	1026.4
313.09	4003.00	1026.9
313.09	5004.00	1027.3
313.09	6004.00	1027.8
313.09	6996.00	1028.3
313.09	8006.00	1028.8
313.09	9066.00	1029.4
313.09	10021.00	1029.8
313.09	11008.00	1030.3
313.09	11995.00	1030.8
313.09	13024.00	1031.3
313.09	13984.00	1031.7
313.09	14994.00	1032.2
313.09	15992.00	1032.7
313.09	16977.00	1033.1
313.09	17994.00	1033.6
313.09	19000.00	1034.0
313.09	19985.00	1034.5
323.01	1003.00	1017.6
323.01	2020.00	1018.2
323.01	3006.00	1018.7
323.01	4031.00	1019.2
323.01	5002.00	1019.7
323.01	6020.00	1020.2
323.01	7003.00	1020.7

323.01	8000.00	1021.2
323.01	9006.00	1021.7
323.01	9991.00	1022.2
323.01	11005.00	1022.7
323.01	12000.00	1023.2
323.01	13010.00	1023.7
323.01	14000.00	1024.2
323.01	14987.00	1024.7
323.01	15987.00	1025.2
323.01	17012.00	1025.6
323.01	17991.00	1026.1
323.01	18995.00	1026.6
323.01	20012.00	1027.1
332.95	1045.00	1009.9
332.95	2032.00	1010.5
332.95	2995.00	1011.0
332.95	3991.00	1011.6
332.95	4983.00	1012.1
332.95	6016.00	1012.6
332.95	6998.00	1013.2
332.95	8009.00	1013.7
332.95	8993.00	1014.2
332.95	9991.00	1014.7
332.95	10985.00	1015.3
332.95	12014.00	1015.8
332.95	13079.00	1016.3
332.95	13992.00	1016.8
332.95	14999.00	1017.3
332.95	15997.00	1017.8
332.95	16989.00	1018.3
332.95	17997.00	1018.8
332.95	19011.00	1019.3
332.95	19963.00	1019.7
342.78	1004.00	1002.0
342.78	1998.00	1002.6
342.78	3050.00	1003.2
342.78	4015.00	1003.7
342.78	4998.00	1004.3
342.78	6020.00	1004.9
342.78	7011.00	1005.4
342.78	8034.00	1006.0
342.78	9001.00	1006.5
342.78	10000.00	1007.1
342.78	11000.00	1007.6

342.78	12012.00	1008.2
342.78	12947.00	1008.7
342.78	13991.00	1009.2
342.78	15001.00	1009.8
342.78	15987.00	1010.3
342.78	16998.00	1010.8
342.78	18005.00	1011.3
342.78	18981.00	1011.9
342.78	19980.00	1012.4
352.68	1013.00	994.4
352.68	2013.00	995.0
352.68	3004.00	995.6
352.68	3999.00	996.1
352.68	5003.00	996.8
352.68	6019.00	997.3
352.68	7005.00	997.8
352.68	8001.00	998.4
352.68	8984.00	999.0
352.68	9981.00	999.5
352.68	11029.00	1000.2
352.68	11980.00	1000.7
352.68	13051.00	1001.3
352.68	14000.00	1001.8
352.68	14988.00	1002.4
352.68	16018.00	1002.9
352.68	16978.00	1003.4
352.68	17977.00	1004.0
352.68	19003.00	1004.5
352.68	19990.00	1005.1
362.52	1005.00	986.7
362.52	2045.00	987.3
362.52	2982.00	987.8
362.52	4026.00	988.4
362.52	5007.00	988.9
362.52	6014.00	989.5
362.52	7015.00	990.2
362.52	7998.00	990.8
362.52	9003.00	991.3
362.52	9986.00	991.9
362.52	10996.00	992.5
362.52	12008.00	993.1
362.52	13004.00	993.7
362.52	13985.00	994.2
362.52	15010.00	994.8

New Vapor Liquid Liquid Equilibrium Data for Ethane and Propane in Aqueous Solutions of N-Methyl-diethanolamine in pure water and aqueous viscous amine solutions. Viscosity, Density, and Volatility of Binary Mixtures of Imidazole, N-Methylimidazole, 2,4,5-Trimethylimidazole, and 2,4,5-Tetramethylimidazole with mixtures of dimethyl sulfoxide with amines in solution and diffusivity of N₂O and CO₂ into Aqueous Solutions of N-Methyl-diethanolamine + Ethanol Solutions of N-Methyl-diethanolamine + Carbon Dioxide in the Phase Equilibrating Region: N-Methyl-diethanolamine Solutions and Water in Aqueous Tetrafluoroborate N-Methyl-diethanolamine + Cyclohexane Aqueous Solutions: Properties of Aqueous N-Methyl-diethanolamine and N-Methylamine (298.15 to 338.15) K: N-Methyl-diethanolamine from (298.15 to 373.15) K: Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Aqueous Solutions of Carbon Dioxide in aqueous solutions of diisopropylamine and N-methyl-diethanolamine (from 1.0 to 3.0) in aqueous piperazine. Mass transfer through a Gas Stripping technique for determining activity constants and thermodynamic properties of N-methyl-diethanolamine. Viscosity of N-methyl-diethanolamine, Mercaptan, Butyl methylamine, and dimethylamine in Water: N-methyl-diethanolamine + Water: Thermodynamic properties of ternary solution of N-methyl-diethanolamine and Correlation of Vapor and CO₂ Vapor Aqueous Solutions for Aqueous Solutions of N-Methyl-diethanolamine from 298.15 to 360.0 K: Thermodynamic Properties of Binary Mixtures of N-Methyl-diethanolamine + Water and N-Methyl-diethanolamine. N-methyl-diethanolamine + Water: Viscosity of N-methyl-diethanolamine + Water from 298.15 to 360.0 K: Viscosity of Ionic Liquids. Surface Tension of Aqueous Binary Mixtures of N-methyl-diethanolamine and N-methyl-diethanolamine and Aqueous Solutions of N-methyl-diethanolamine with Triethylamine and Excess Molar Volumes of N-methyl-diethanolamine from (293.15 to 360.0) K: N-methyl-diethanolamine (IDEA) at various temperatures from 293.15 to 360.0 K: Kinetic Studies of CO₂ Capture by Glycol and Aqueous Solutions of methyldiethanolamine and Study of CO₂ Absorption into Phase Change Solvents MAPA and DEA:

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Legend

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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
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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

rho:	Liquid Density
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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