1-Propanol, 2-amino-2-methyl-

Other names:	1,1-Dimethyl-2-hydroxyethylamine
	2,2-Dimethyl-ethanolamine
	2-Amino-1-hydroxy-2-methylpropane
	2-Amino-2,2-dimethylethanol
	2-Amino-2-methyl-1-propanol
	2-Amino-2-methylpropan-1-ol
	2-Amino-2-methylpropanol
	2-Aminodimethylethanol
	2-Aminoisobutanol
	2-Hydroxymethyl-2-propylamine
	2-Methyl-2-aminopropanol
	2-Methyl-2-aminopropanol-1
	AMP
	AMP (thinner)
	AMP 75
	AMP Regular
	AMP-95
	Amino-2,2-dimethylethanol
	Amino-2-methyl-1-propanol
	Aminoisobutanol
	Aminomethylpropanol
	Corrguard 75
	Hydroxy-tert-butylamine
	Hydroxymethyl-2-propylamine
	Isobutanol-2-amine
	KV 5088
	NSC 441
	«beta»-Aminoisobutanol
	Â«betaÂ»-Aminoisobutanol
Inchi:	InChI=1S/C4H11NO/c1-4(2,5)3-6/h6H,3,5H2,1-2H3
InchiKey:	CBTVGIZVANVGBH-UHFFFAOYSA-N
Formula:	C4H11NO
SMILES:	CC(C)(N)CO
Mol. weight [g/mol]:	89.14
CAS:	124-68-5

Physical Properties

Property code	Value	Unit	Source
gf	-84.73	kJ/mol	Joback Method
hf	-253.08	kJ/mol	Joback Method
hfus	7.99	kJ/mol	Joback Method
hvap	50.52	kJ/mol	Joback Method
log10ws	-0.31		Crippen Method
logp	-0.284		Crippen Method
mcvol	83.070	ml/mol	McGowan Method
pc	4862.97	kPa	Joback Method
ripol	1452.00		NIST Webbook
ripol	1384.00		NIST Webbook
ripol	1380.00		NIST Webbook
ripol	1460.00		NIST Webbook
ripol	1468.00		NIST Webbook
ripol	1468.00		NIST Webbook
tb	438.70	K	NIST Webbook
tb	438.00	K	NIST Webbook
tb	436.85	K	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
tc	639.25	K	Joback Method
tf	303.50 ± 0.50	K	NIST Webbook
tt	295.75	K	Solid Solubility in the Aqueous 2-Amino-2-methyl-propanol (AMP) Plus Piperazine (PZ) System
vc	0.296	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.43	J/mol×K	514.68	Joback Method
cpg	207.16	J/mol×K	545.82	Joback Method
cpg	214.46	J/mol×K	576.96	Joback Method
cpg	221.34	J/mol×K	608.11	Joback Method
cpg	227.82	J/mol×K	639.25	Joback Method
cpg	182.53	J/mol×K	452.40	Joback Method
cpg	191.22	J/mol×K	483.54	Joback Method
cpl	229.50	J/mol×K	298.15	NIST Webbook

dvisc	0.0251000	Pa×s	323.15	Volumetric Properties and Viscosities for Aqueous AMP Solutions from 25 0C to 70 0C
dvisc	0.0478000	Pa×s	313.15	Volumetric Properties and Viscosities for Aqueous AMP Solutions from 25 0C to 70 0C
dvisc	0.0144000	Pa×s	333.15	Volumetric Properties and Viscosities for Aqueous AMP Solutions from 25 0C to 70 0C
dvisc	0.0089100	Pa×s	343.15	Volumetric Properties and Viscosities for Aqueous AMP Solutions from 25 0C to 70 0C
pvap	4.99	kPa	363.10	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	57.30	kPa	419.95	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	61.30	kPa	421.85	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	65.30	kPa	423.65	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions

pvap	66.70	kPa	424.45	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	69.30	kPa	425.55	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	73.30	kPa	427.15	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	80.00	kPa	429.65	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	80.00	kPa	429.75	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	85.30	kPa	431.85	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	90.70	kPa	433.65	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions

pvap	96.00	kPa	435.35	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	101.30	kPa	436.85	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	0.04	kPa	293.29	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	0.10	kPa	303.35	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	0.22	kPa	313.24	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures

pvap	0.46	kPa	323.25	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	0.87	kPa	332.57	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	1.66	kPa	343.18	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	2.93	kPa	353.17	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	53.30	kPa	418.15	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions

pvap	8.14	kPa	373.00	Investigation of the isothermal (vapour + liquid) equilibria of aqueous 2-amino-2-methyl-1-propanol (AMP), N-benzylethanolamine, or 3-dimethylamino-1-propanol solutions at several temperatures
pvap	5.00	kPa	364.11	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems
pvap	10.00	kPa	377.39	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems
pvap	20.00	kPa	392.71	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems
pvap	30.00	kPa	402.56	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems
pvap	50.00	kPa	415.99	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems

pvap	70.00	kPa	425.48	Ternary Isobaric Vapor-Liquid Equilibria of Methanol + N-Methyldiethanolamine + Water and Methanol + 2-Amino-2-methyl-1-propanol + Water Systems
pvap	1.94	kPa	347.50	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	2.94	kPa	354.30	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	4.94	kPa	363.60	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	7.44	kPa	371.40	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	9.94	kPa	377.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	50.70	kPa	416.65	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	29.90	kPa	402.10	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	39.90	kPa	409.50	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	49.90	kPa	415.60	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	65.00	kPa	423.00	Vapor Pressures of Several Commercially Used Alkanolamines

pvap	80.00	kPa	429.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	100.00	kPa	436.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	120.00	kPa	442.10	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	140.00	kPa	447.30	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	160.00	kPa	452.00	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	48.00	kPa	415.15	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	44.00	kPa	412.95	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	36.00	kPa	407.75	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	32.00	kPa	404.45	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions

pvap	28.00	kPa	401.05	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	24.00	kPa	397.25	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	20.00	kPa	393.05	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	16.00	kPa	388.05	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	12.00	kPa	381.35	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	40.00	kPa	410.35	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions
pvap	19.90	kPa	392.30	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	8.00	kPa	373.25	Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions

rhol	917.20	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
rhol	909.20	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
rhol	900.70	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
rhol	930.52	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
rhol	926.40	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

rhol	922.26	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
rhol	918.08	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
rhol	913.87	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
rhol	909.62	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

speedsl	1483.44	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	1386.93	m/s	323.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1405.28	m/s	318.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K

speedsl	1501.44	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
speedsl	1423.80	m/s	313.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1442.40	m/s	308.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K

speedsl	1461.22	m/s	303.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1483.44	m/s	298.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1501.44	m/s	293.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K

speedsl	1386.93	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	1405.28	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	1423.80	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	1442.40	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	1461.22	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

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	340.50	K	1.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.61365e+01

Coeff. B	-4.32398e+03
Coeff. C	-6.30950e+01
Temperature range (K), min.	335.92
Temperature range (K), max.	462.54

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
313.06	1000.00	931.4
313.06	2000.00	931.9
313.06	3000.00	932.4
313.06	4000.00	932.9
313.06	5000.00	933.5
313.06	6000.00	933.9
313.06	7000.00	934.5
313.06	8000.00	935.0
313.06	9007.00	935.5
313.06	10003.00	936.0
313.06	11000.00	936.6
313.06	12000.00	937.0
313.06	13000.00	937.6
313.06	14000.00	938.1
313.06	15002.00	938.6
313.06	16000.00	939.1
313.06	17001.00	939.7
313.06	18002.00	940.2
313.06	19000.00	940.6
313.06	20029.00	941.1
313.06	21004.00	941.7
313.06	22004.00	942.1
313.06	24004.00	943.1
322.98	500.00	922.7
322.98	1000.00	922.8
322.98	2000.00	923.4
322.98	3000.00	924.0
322.98	4000.00	924.5
322.98	5000.00	925.1

322.98	6000.00	925.7
322.98	7000.00	926.2
322.98	8000.00	926.8
322.98	9007.00	927.4
322.98	10002.00	927.8
322.98	11000.00	928.4
322.98	12000.00	928.9
322.98	13000.00	929.5
322.98	14000.00	930.1
322.98	15003.00	930.6
322.98	16006.00	931.1
322.98	17001.00	931.6
322.98	18002.00	932.1
322.98	19000.00	932.6
322.98	20030.00	933.2
322.98	21005.00	933.7
322.98	22004.00	934.1
322.98	24004.00	935.2
332.91	500.00	914.0
332.91	1000.00	914.4
332.91	2000.00	915.0
332.91	3000.00	915.6
332.91	4000.00	916.1
332.91	5000.00	916.7
332.91	6000.00	917.3
332.91	7000.00	918.0
332.91	8000.00	918.5
332.91	9009.00	919.1
332.91	10003.00	919.7
332.91	11002.00	920.2
332.91	12001.00	920.8
332.91	13000.00	921.3
332.91	14000.00	921.9
332.91	15002.00	922.4
332.91	16001.00	923.0
332.91	17001.00	923.5
332.91	18002.00	924.1
332.91	19000.00	924.6
332.91	20030.00	925.2
332.91	21002.00	925.6
332.91	22004.00	926.2
332.91	23000.00	926.7
332.91	24004.00	927.3
342.84	500.00	905.4

342.84	1000.00	905.7
342.84	2000.00	906.4
342.84	3000.00	907.0
342.84	4000.00	907.6
342.84	5000.00	908.3
342.84	6000.00	908.9
342.84	7000.00	909.5
342.84	8001.00	910.1
342.84	9009.00	910.7
342.84	10003.00	911.3
342.84	11001.00	911.9
342.84	12000.00	912.5
342.84	13000.00	913.1
342.84	14000.00	913.6
342.84	15003.00	914.3
342.84	16001.00	914.8
342.84	17001.00	915.3
342.84	18002.00	915.9
342.84	19000.00	916.5
342.84	20030.00	917.1
342.84	21005.00	917.6
342.84	22004.00	918.1
342.84	23000.00	918.7
342.84	24004.00	919.2
352.79	500.00	896.8
352.79	1000.00	897.2
352.79	2000.00	897.9
352.79	3000.00	898.5
352.79	4001.00	899.2
352.79	5000.00	899.9
352.79	6000.00	900.5
352.79	7001.00	901.2
352.79	8000.00	901.8
352.79	9009.00	902.4
352.79	10003.00	903.1
352.79	11001.00	903.7
352.79	12000.00	904.3
352.79	13001.00	904.9
352.79	14000.00	905.5
352.79	15002.00	906.1
352.79	16001.00	906.7
352.79	17001.00	907.4
352.79	18002.00	907.9
352.79	18997.00	908.5

352.79	20030.00	909.1
352.79	21001.00	909.7
352.79	22004.00	910.3
352.79	23000.00	910.9
352.79	24004.00	911.4
362.65	504.00	888.0
362.65	1002.00	888.4
362.65	2000.00	889.0
362.65	3000.00	889.7
362.65	4000.00	890.5
362.65	5000.00	891.2
362.65	6000.00	891.8
362.65	7000.00	892.5
362.65	8001.00	893.2
362.65	9010.00	893.9
362.65	10003.00	894.6
362.65	11001.00	895.2
362.65	12000.00	895.8
362.65	13001.00	896.5
362.65	14000.00	897.1
362.65	15003.00	897.8
362.65	16001.00	898.4
362.65	17000.00	899.1
362.65	18002.00	899.7
362.65	19000.00	900.3
362.65	20030.00	901.0
362.65	21004.00	901.6
362.65	22004.00	902.2
362.65	23000.00	902.8
362.65	24003.00	903.3

Reference *https://www.doi.org/10.1021/je700406p*

Sources

Experimental investigation of the density and viscosity of CO2-loaded aqueous alkanolamine solutions: https://www.doi.org/10.1016/j.fluid.2015.06.034

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C124685&Units=SI

Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions: https://www.doi.org/10.1016/j.fluid.2006.03.014

Experimental analysis and modeling of CO2 solubility in AMP solutions: https://www.doi.org/10.1016/j.jct.2011.05.032

(Vapour + liquid) equilibria (VLE) of (2-amino-2-methyl-1-propanol) at low CO2 partial pressure using the models of Deshmukh–Mather and the artificial neural network: https://www.doi.org/10.1016/j.jct.2011.03.016

Physical Properties of Aqueous Solutions of Piperazine and (2-Amino-2-methyl-1-propanol + Piperazine) from (298.15 to 333.15) K: https://www.doi.org/10.1021/je1012586

Vapor Pressures of Several Commercially Used Alkanolamines:	https://www.doi.org/10.1021/je101259r
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Density and Viscosity of Aqueous Solutions of Piperazine and	https://www.doi.org/10.1021/je050378i
2-Amino-2-methyl-1-propanol	https://www.doi.org/10.1021/je060195b
Solutions of (N-Methyldiethanolamine + Piperazine) and	https://www.doi.org/10.1021/acs.jced.8b01220
2-Amino-2-methyl-1-propanol (AMP) Plus	https://www.doi.org/10.1021/je050463q
Ternary Mixtures of	https://en.wikipedia.org/wiki/Joback_method
2-(Methylamino)ethanol and	https://www.doi.org/10.1021/je1002626
Aqueous Solutions of	https://www.doi.org/10.1021/je0201119
2-Amino-2-methyl-1-propanol from	https://www.doi.org/10.1021/je0201626
Aqueous Solutions of	http://pubs.acs.org/doi/abs/10.1021/ci990307l
2-Amino-2-methyl-1-propanol:	https://www.doi.org/10.1016/j.fluid.2015.04.016
The solubility measurement and	http://link.springer.com/article/10.1007/BF02311772
modeling of CO2 in aqueous solution	https://www.doi.org/10.1021/je020206a
Density and Viscosity of Aqueous	https://www.doi.org/10.1021/je0301951
Solutions of (N-Methyldiethanolamine +	https://www.doi.org/10.1021/je900437b
Physical Solubility and Diffusivity of	https://www.doi.org/10.1021/je049828h
N2O and CO2 into Aqueous Solutions	https://www.doi.org/10.1016/j.jct.2010.04.015
Density, Viscosity, Refractive Index, and	https://www.doi.org/10.1021/je0603271
2-Amino-2-methyl-1-propanol (AMP),	https://www.doi.org/10.1016/j.jct.2012.02.012
Solubility of Carbon Dioxide and	https://www.doi.org/10.1021/je020048n
Diethanolamine + Water and	https://www.doi.org/10.1021/je900739x
Monoethanolamine + Triethanolamine),	https://www.doi.org/10.1021/je700406p
Density, Speed of Sound, Isentropic	https://www.doi.org/10.1021/je050462y
Diethanolamine + 2-Amino-2-methyl-1-	https://www.doi.org/10.1016/j.jct.2009.11.006
Physical Solubility of Carbon Dioxide in	https://www.doi.org/10.1016/j.jct.2013.08.025
2-Amino-2-methyl-1-propanol in the	https://www.doi.org/10.1016/j.jct.2015.06.032
2-amino-2-methyl-1-propanol and	https://www.doi.org/10.1021/je200959m
Piperazine Aqueous Solution:	https://www.doi.org/10.1016/j.fluid.2017.01.020
Experimental measurement and	https://www.doi.org/10.1021/je060396f
Freezing Point Depression Method:	
Ternary Isobaric Vapor-Liquid	
Equilibria of Methanol +	
N-Methyldiethanolamine + Water and	
Methanol +	
2-Amino-2-methyl-1-propanol + Water	
Systems	

Legend

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

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rhol:	Liquid Density
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume