

N,N-Dimethylaminoethanol

Other names:

(2-Hydroxyethyl)dimethylamine
(CH₃)₂NCH₂CH₂OH
(Dimethylamino)ethanol
(N,N-dimethylamino)ethanol
.beta.-(dimethylamino)ethanol
.beta.-dimethylaminoethyl alcohol
.beta.-hydroxyethyldimethylamine
2-(Dimethylamino)-1-ethanol
2-(Dimethylamino)ethanol
2-(N,N-Dimethylamino)ethanol
2-(dimethylamino)ethyl alcohol
2-dimethylaminoethanol
67-48-1
Amietol M 21
Bimanol
DMAE
DMEA
Dabco DMEA
Deanol
Dimethyl(2-hydroxyethyl)amine
Dimethyl(hydroxyethyl)amine
Dimethylaethanolamin
Dimethylaminoethanol
Dimethylethanolamine
Dimethylmonoethanolamine
Ethanol, 2-(dimethylamino)-
Kalpur P
Liparon
N,N'-Dimethylethanolamine
N,N-Dimethyl(2-hydroxyethyl)amine
N,N-Dimethyl-2-aminoethanol
N,N-Dimethyl-N-(2-hydroxyethyl)amine
N,N-Dimethyl-N-(«beta»-hydroxyethyl)amine
N,N-Dimethyl-N-(Â«betaÂ»-hydroxyethyl)amine
N,N-Dimethyl-«beta»-hydroxyethylamine
N,N-Dimethyl-Â«betaÂ»-hydroxyethylamine
N,N-Dimethylethanolamine
N,N-dimethyl-.beta.-hydroxyethylamine
N,N-dimethyl-2-hydroxyethylamine
N,N-dimethyl-N-(.beta.-hydroxyethyl)amine

N-(2-Hydroxyethyl)dimethylamine

N-(Dimethylamino)ethanol

NSC 2652

Norcholine

Propamine A

Tegoamin DMEA

Texacat DME

UN 2051

Varesal

ethanolamine, N,N-dimethyl-

«beta»-(Dimethylamino)ethanol

«beta»-(Dimethylamino)ethyl alcohol

«beta»-Hydroxyethyldimethylamine

Â«betaÂ»-(Dimethylamino)ethanol

Â«betaÂ»-(Dimethylamino)ethyl alcohol

Â«betaÂ»-Hydroxyethyldimethylamine

Inchi: InChI=1S/C4H11NO/c1-5(2)3-4-6/h6H,3-4H2,1-2H3

InchiKey: UEEJHVSXFDXPFK-UHFFFAOYSA-N

Formula: C4H11NO

SMILES: CN(C)CCO

Mol. weight [g/mol]: 89.14

CAS: 108-01-0

Physical Properties

Property code	Value	Unit	Source
gf	-43.24	kJ/mol	Joback Method
hf	-210.59	kJ/mol	Joback Method
hfus	13.22	kJ/mol	Joback Method
hvap	46.50 ± 0.40	kJ/mol	NIST Webbook
hvap	47.60	kJ/mol	NIST Webbook
hvap	47.90	kJ/mol	NIST Webbook
ie	8.82	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	8.85 ± 0.04	eV	NIST Webbook
log10ws	0.67		Crippen Method
logp	-0.460		Crippen Method
mcpvol	83.070	ml/mol	McGowan Method
pc	4374.18	kPa	Joback Method
rinpol	708.00		NIST Webbook
rinpol	706.00		NIST Webbook

rinpol	710.00		NIST Webbook
rinpol	710.00		NIST Webbook
tb	407.20	K	NIST Webbook
tb	407.75	K	NIST Webbook
tb	406.88 ± 0.20	K	NIST Webbook
tc	556.43	K	Joback Method
tf	214.15	K	NIST Webbook
vc	0.296	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	168.88	J/molxK	422.35	Joback Method
cpg	184.42	J/molxK	475.98	Joback Method
cpg	191.72	J/molxK	502.80	Joback Method
cpg	198.71	J/molxK	529.61	Joback Method
cpg	205.42	J/molxK	556.43	Joback Method
cpg	160.61	J/molxK	395.54	Joback Method
cpg	176.81	J/molxK	449.17	Joback Method
cpl	217.00	J/molxK	313.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	226.00	J/molxK	353.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	224.00	J/molxK	348.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K
cpl	223.00	J/molxK	343.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K

cpl	223.00	J/mol×K	338.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	213.00	J/mol×K	303.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	222.00	J/mol×K	328.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	221.00	J/mol×K	323.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	215.00	J/mol×K	308.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	219.00	J/mol×K	318.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
cpl	223.00	J/mol×K	333.15	Molar Heat Capacity of Various Aqueous Alkanolamine Solutions from 303.15 K to 353.15 K	
dvisc	0.0014130	Paxs	333.15	Density and viscosity of aqueous solutions of N,N-dimethylethanolamine at p = 0.1 MPa from T = (293.15 to 363.15) K	

dvisc	0.0017560	Paxs	323.15	Density and viscosity of aqueous solutions of N,N-dimethylethanolamine at p = 0.1 MPa from T = (293.15 to 363.15) K
dvisc	0.0011560	Paxs	343.15	Density and viscosity of aqueous solutions of N,N-dimethylethanolamine at p = 0.1 MPa from T = (293.15 to 363.15) K
dvisc	0.0009630	Paxs	353.15	Density and viscosity of aqueous solutions of N,N-dimethylethanolamine at p = 0.1 MPa from T = (293.15 to 363.15) K
dvisc	0.0022380	Paxs	313.15	Density and viscosity of aqueous solutions of N,N-dimethylethanolamine at p = 0.1 MPa from T = (293.15 to 363.15) K
hvapt	43.20	kJ/mol	368.50	NIST Webbook
hvapt	42.70	kJ/mol	365.50	NIST Webbook
pvap	300.20	kPa	447.80	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	0.69	kPa	298.00	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.61	kPa	295.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.58	kPa	295.00	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.55	kPa	294.10	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines

pvap	0.48	kPa	292.40	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.74	kPa	298.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.83	kPa	301.10	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.88	kPa	301.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.06	kPa	304.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.02	kPa	304.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.27	kPa	307.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.24	kPa	307.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.53	kPa	310.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.87	kPa	313.30	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	2.21	kPa	316.30	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.44	kPa	309.50	Vapor Pressures of Several Commercially Used Alkanolamines

pvap	2.94	kPa	320.80	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	4.94	kPa	330.40	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	7.44	kPa	338.50	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	9.94	kPa	344.70	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	19.90	kPa	360.90	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	29.90	kPa	371.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	49.90	kPa	385.30	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	75.00	kPa	397.60	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	100.00	kPa	406.80	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	120.00	kPa	413.10	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	150.00	kPa	420.90	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	200.00	kPa	431.60	Vapor Pressures of Several Commercially Used Alkanolamines

pvap	250.10	kPa	440.40	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	0.15	kPa	273.86	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.29	kPa	282.97	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.29	kPa	282.97	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.58	kPa	292.89	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions

pvap	0.58	kPa	292.91	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.58	kPa	292.91	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	1.09	kPa	302.89	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.43	kPa	290.60	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.96	kPa	312.86	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions

pvap	1.96	kPa	312.86	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	3.39	kPa	323.03	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	5.63	kPa	333.06	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	9.05	kPa	343.05	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	14.45	kPa	353.04	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions

pvap	21.59	kPa	363.10	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.14	kPa	273.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.30	kPa	283.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.59	kPa	293.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	1.11	kPa	303.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions

pvap	1.99	kPa	313.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	3.44	kPa	323.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	5.71	kPa	333.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	9.16	kPa	343.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	14.29	kPa	353.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions

pvap	21.66	kPa	363.15	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.19	kPa	277.90	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.19	kPa	278.30	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.19	kPa	278.60	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.22	kPa	280.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.23	kPa	280.70	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.24	kPa	281.80	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.28	kPa	283.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.28	kPa	284.30	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.34	kPa	286.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.32	kPa	286.50	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines

pvap	0.42	kPa	289.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	0.40	kPa	289.40	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
pvap	1.10	kPa	302.89	Measurement and correlation of the (vapor + liquid) equilibria of pure 4-ethylmorpholine, 1,2-dimethylisopropylamine and N,N-dimethylethanolamine, and their binary aqueous solutions
pvap	0.50	kPa	292.20	Vapor Pressures and Vaporization Enthalpies of a Series of Ethanolamines
rhoI	883.34	kg/m3	298.15	Study of intermolecular interactions in binary mixtures of 2-(dimethylamino)ethanol with methanol and ethanol at various temperatures
rhoI	823.75	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	833.29	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	842.60	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	851.72	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	860.65	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	869.43	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	878.06	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	886.56	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	894.96	kg/m3	283.15	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	844.40	kg/m3	343.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	849.00	kg/m3	338.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	853.50	kg/m3	333.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	858.00	kg/m3	328.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	862.40	kg/m3	323.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K

rhoI	871.20	kg/m3	313.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	875.50	kg/m3	308.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	879.80	kg/m3	303.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	884.00	kg/m3	298.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	888.20	kg/m3	293.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K
rhoI	834.93	kg/m3	353.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rhoI	844.20	kg/m3	343.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K

rho1	853.29	kg/m3	333.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rho1	862.20	kg/m3	323.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rho1	870.95	kg/m3	313.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rho1	879.57	kg/m3	303.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rho1	883.83	kg/m3	298.15	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K
rho1	866.37	kg/m3	318.15	Study of intermolecular interactions in binary mixtures of 2-(dimethylamino)ethanol with methanol and ethanol at various temperatures

rhoI	874.99	kg/m3	308.15	Study of intermolecular interactions in binary mixtures of 2-(dimethylamino)ethanol with methanol and ethanol at various temperatures
rhoI	866.80	kg/m3	318.15	Densities of Aqueous 2-Dimethylaminoethanol Solutions at Temperatures of (293.15 to 343.15) K

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.61267e+01
Coeff. B	-4.06085e+03
Coeff. C	-5.43380e+01
Temperature range (K), min.	310.72
Temperature range (K), max.	429.82

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
298.15	100.00	0.0036900

Reference https://www.doi.org/10.1021/acs.jced.5b00447

Molar volume, m3/mol

Temperature, K - Liquid	Pressure, kPa - Liquid	Molar volume, m3/mol - Liquid
298.15	100.00	0.0001
298.15	10000.00	0.0001
313.15	100.00	0.0001
313.15	10000.00	0.0001
328.15	100.00	0.0001
328.15	10000.00	0.0001

Reference

<https://www.doi.org/10.1021/je800334m>

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Excess Molar Enthalpies of N,N-Dimethylethanolamine with Methanol, Ethanol, Propanol, and Carbonated Aqueous Solutions and Generalized Partial Molar Enthalpy Functions at Temperatures between 298.15 and 328.15 K for Aqueous Alkanolamine Solutions and of Aqueous Alkanolamine Solutions at High Pressures: Density and Viscosity of Partially Saturated Aqueous Solutions and Generalized Partial Molar Enthalpy Functions at Temperatures between 298.15 and 328.15 K for Aqueous Alkanolamine Solutions from 100.05 to 10000.00 kPa and Vaporization Enthalpies of a Series of Ethanolamines

<https://www.doi.org/10.1021/je800334m>

<https://www.doi.org/10.1021/acs.jced.7b00144>

<https://www.doi.org/10.1021/acs.jced.5b00447>

<https://www.doi.org/10.1016/j.jct.2017.05.001>

<https://www.doi.org/10.1021/je0604232>

<https://www.doi.org/10.1021/je049761y>

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1021/acs.jced.6b00888>

<https://www.doi.org/10.1016/j.jct.2013.03.020>

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<https://www.doi.org/10.1021/je400679k>

<https://www.doi.org/10.1016/j.jct.2018.03.020>

<https://www.doi.org/10.1021/acs.jced.5b00282>

https://www.chemeo.com/doc/models/crippen_log10ws

<https://www.doi.org/10.1016/j.jct.2004.11.016>

<https://www.doi.org/10.1021/je101259r>

<http://link.springer.com/article/10.1007/BF02311772>

<https://www.doi.org/10.1016/j.tca.2014.03.038>

McGowan Method:

Study of intermolecular interactions in binary mixtures of 2-(dimethylamino)ethanol with methanol and ethanol at various temperatures:

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
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
rho:	Liquid Density
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume
volm:	Molar Volume

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