Ethylenediamine

Other names:	1,2-Diamino-ethaan
	1,2-Diamino-ethano
	1,2-Diaminoaethan
	1,2-Diaminoethane
	1,2-ETHANEDIAMINE
	1,2-Ethylenediamine
	AETHYLENEDIAMIN
	Aethaldiamin
	BETA-AMINOETHYLAMINE
	Dimethylenediamine
	Ethane-1,2-diamine
	Ethyleendiamine
	Ethylendiamine
	H2NCH2CH2NH2
	NCI-C60402
	UN 1604
	«beta»-Aminoethylamine
	Â«betaÂ»-Aminoethylamine
Inchi:	InChI=1S/C2H8N2/c3-1-2-4/h1-4H2
InchiKey:	PIICEJLVQHRZGT-UHFFFAOYSA-N
Formula:	C2H8N2
SMILES:	NCCN
Mol. weight [g/mol]:	60.10
CAS:	107-15-3

Physical Properties

Property code	Value	Unit	Source
af	0.5100		KDB
affp	941.80	kJ/mol	NIST Webbook
affp	951.60	kJ/mol	NIST Webbook
affp	948.10	kJ/mol	NIST Webbook
affp	951.00 ± 4.00	kJ/mol	NIST Webbook
basg	912.50	kJ/mol	NIST Webbook
chl	-1867.30 ± 0.50	kJ/mol	NIST Webbook
dm	1.90	debye	KDB
gf	98.86	kJ/mol	Joback Method
hf	-17.00 ± 0.59	kJ/mol	NIST Webbook

hfl	-63.01 ± 0.54	kJ/mol	NIST Webbook
hfus	11.33	kJ/mol	Joback Method
hvap	45.00 ± 0.10	kJ/mol	NIST Webbook
hvap	44.98 ± 0.12	kJ/mol	NIST Webbook
hvap	46.00 ± 0.20	kJ/mol	NIST Webbook
hvap	45.69 ± 0.21	kJ/mol	NIST Webbook
hvap	41.60	kJ/mol	NIST Webbook
hvap	46.00 ± 0.20	kJ/mol	NIST Webbook
hvap	45.01	kJ/mol	NIST Webbook
hvap	46.00	kJ/mol	NIST Webbook
hvap	54.40 ± 1.00	kJ/mol	NIST Webbook
ie	9.25	eV	NIST Webbook
ie	8.60	eV	NIST Webbook
log10ws	0.47		Crippen Method
logp	-1.096		Crippen Method
mcvol	59.000	ml/mol	McGowan Method
nfpaf	%!d(float64=2)		KDB
nfpah	%!d(float64=3)		KDB
pc	6650.00	kPa	Critical Pressures and Temperatures of n-Diaminoalkanes (C2 to C12)
pc	6280.00	kPa	KDB
pc	6707.00 ± 10.00	kPa	NIST Webbook
rinpol	612.00		NIST Webbook
rinpol	625.00		NIST Webbook
rinpol	600.00		NIST Webbook
ripol	1195.00		NIST Webbook
ripol	1220.00		NIST Webbook
ripol	1265.00		NIST Webbook
ripol	1192.00		NIST Webbook
ripol	1195.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1235.00		NIST Webbook
ripol	1220.00		NIST Webbook
ripol	1233.00		NIST Webbook
sl	202.42	J/mol×K	NIST Webbook
tb	391.20	K	NIST Webbook
tb	390.15	K	NIST Webbook
tb	391.65 ± 0.60	K	NIST Webbook
tb	390.10	K	NIST Webbook
tb	390.29 ± 0.30	K	NIST Webbook
tb	390.40	K	KDB
tb	389.70	K	NIST Webbook
tc	613.10 ± 0.30	K	NIST Webbook

tc	593.00	K	KDB
tf	284.15	K	NIST Webbook
tf	284.00	K	KDB
tt	284.29	K	KDB
tt	284.29 ± 0.01	K	NIST Webbook
vc	0.206	m3/kmol	KDB
zc	0.2623830		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	113.88	J/mol×K	390.22	Joback Method
cpg	132.63	J/mol×K	490.77	Joback Method
cpg	126.66	J/mol×K	457.25	Joback Method
cpg	120.42	J/mol×K	423.74	Joback Method
cpg	148.94	J/mol×K	591.32	Joback Method
cpg	138.33	J/mol×K	524.29	Joback Method
cpg	143.76	J/mol×K	557.81	Joback Method
cpl	172.73	J/mol×K	299.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.95	J/mol×K	302.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.06	J/mol×K	303.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.17	J/mol×K	305.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	173.29	J/mol×K	306.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.41	J/mol×K	308.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.53	J/mol×K	309.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.66	J/mol×K	311.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.79	J/mol×K	312.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	173.92	J/mol×K	314.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.05	J/mol×K	315.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	174.18	J/mol×K	317.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.31	J/mol×K	318.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.84	J/mol×K	300.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.59	J/mol×K	321.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.72	J/mol×K	323.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.86	J/mol×K	324.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.00	J/mol×K	326.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	175.15	J/mol×K	327.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.29	J/mol×K	329.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.43	J/mol×K	330.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.58	J/mol×K	332.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.72	J/mol×K	333.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.86	J/mol×K	335.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.01	J/mol×K	336.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	176.15	J/mol×K	338.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.30	J/mol×K	339.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.44	J/mol×K	341.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.59	J/mol×K	342.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.73	J/mol×K	344.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.87	J/mol×K	345.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	177.02	J/mol×K	347.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	177.16	J/mol×K	348.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	177.30	J/mol×K	350.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	177.44	J/mol×K	351.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.66	J/mol×K	298.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.63	J/mol×K	297.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	178.70	J/mol×K	313.00	NIST Webbook
cpl	172.53	J/mol×K	296.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.43	J/mol×K	294.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	172.34	J/mol×K	293.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	177.58	J/mol×K	353.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.59	J/mol×K	298.15	NIST Webbook
cpl	174.45	J/mol×K	320.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
dvisc	0.0012760	Pa×s	298.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
dvisc	0.0012110	Pa×s	303.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
dvisc	0.0011070	Pa×s	308.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
hfust	0.49	kJ/mol	189.00	NIST Webbook
hfust	22.58	kJ/mol	284.20	NIST Webbook
hfust	21.08	kJ/mol	284.10	NIST Webbook
hfust	22.58	kJ/mol	284.30	NIST Webbook
hsubt	65.60	kJ/mol	260.00	NIST Webbook
hvapt	45.60	kJ/mol	344.50	NIST Webbook
hvapt	37.98	kJ/mol	390.10	NIST Webbook
hvapt	43.90	kJ/mol	347.00	NIST Webbook

hvapt	45.90	kJ/mol	351.50	NIST Webbook
pvap	19.73	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	29.85	kPa	355.67	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	29.85	kPa	355.67	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	29.83	kPa	355.67	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures

pvap	29.85	kPa	355.67	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	19.74	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.82	kPa	365.60	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.81	kPa	365.60	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.83	kPa	365.60	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures

pvap	43.86	kPa	365.60	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.82	kPa	365.63	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.83	kPa	365.63	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	43.81	kPa	365.63	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures

pvap	19.74	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	19.74	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	19.73	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	19.72	kPa	345.70	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	12.41	kPa	335.88	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures

pvap	7.83	kPa	326.20	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	4.49	kPa	315.48	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	4.48	kPa	315.43	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	2.56	kPa	305.44	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures

pvap	0.66	kPa	285.50	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
pvap	29.84	kPa	355.69	Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several temperatures
rhol	878.86	kg/m3	312.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	902.41	kg/m3	287.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	901.94	kg/m3	287.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	901.47	kg/m3	288.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	901.00	kg/m3	288.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	900.53	kg/m3	289.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	900.07	kg/m3	289.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	899.60	kg/m3	290.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	899.13	kg/m3	290.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	898.66	kg/m3	291.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	898.19	kg/m3	291.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	897.72	kg/m3	292.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	897.25	kg/m3	292.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	896.78	kg/m3	293.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	896.31	kg/m3	293.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	895.85	kg/m3	294.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	895.38	kg/m3	294.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	894.91	kg/m3	295.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	894.44	kg/m3	295.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	893.97	kg/m3	296.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	893.50	kg/m3	296.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	893.03	kg/m3	297.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	892.56	kg/m3	297.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	892.09	kg/m3	298.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	891.62	kg/m3	298.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	891.14	kg/m3	299.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	890.67	kg/m3	299.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	890.20	kg/m3	300.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	889.73	kg/m3	300.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	889.26	kg/m3	301.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	888.79	kg/m3	301.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	888.32	kg/m3	302.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	887.85	kg/m3	302.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	887.38	kg/m3	303.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	886.90	kg/m3	303.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	886.43	kg/m3	304.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	885.96	kg/m3	304.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	885.49	kg/m3	305.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	885.02	kg/m3	305.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	884.54	kg/m3	306.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	884.07	kg/m3	306.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	883.60	kg/m3	307.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	883.12	kg/m3	307.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	882.65	kg/m3	308.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	882.18	kg/m3	308.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	881.70	kg/m3	309.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	881.23	kg/m3	309.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	880.76	kg/m3	310.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	880.28	kg/m3	310.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	879.81	kg/m3	311.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	879.33	kg/m3	311.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	902.87	kg/m3	286.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	878.38	kg/m3	312.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	877.91	kg/m3	313.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	877.44	kg/m3	313.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	876.96	kg/m3	314.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	876.48	kg/m3	314.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	876.01	kg/m3	315.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	875.53	kg/m3	315.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	875.06	kg/m3	316.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	874.58	kg/m3	316.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	874.11	kg/m3	317.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	873.63	kg/m3	317.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	873.15	kg/m3	318.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	872.68	kg/m3	318.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	872.20	kg/m3	319.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	871.72	kg/m3	319.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	871.25	kg/m3	320.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	870.77	kg/m3	320.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	870.29	kg/m3	321.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	869.81	kg/m3	321.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	869.34	kg/m3	322.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	868.86	kg/m3	322.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	868.38	kg/m3	323.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	867.90	kg/m3	323.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	867.42	kg/m3	324.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	866.94	kg/m3	324.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	866.47	kg/m3	325.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	865.99	kg/m3	325.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	865.51	kg/m3	326.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	865.03	kg/m3	326.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	864.55	kg/m3	327.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	864.07	kg/m3	327.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	863.59	kg/m3	328.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	863.11	kg/m3	328.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	862.63	kg/m3	329.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	862.14	kg/m3	329.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	861.66	kg/m3	330.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	861.18	kg/m3	330.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	860.70	kg/m3	331.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	860.22	kg/m3	331.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	859.74	kg/m3	332.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	859.25	kg/m3	332.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	858.77	kg/m3	333.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	858.29	kg/m3	333.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	857.81	kg/m3	334.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	857.32	kg/m3	334.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	856.84	kg/m3	335.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	856.36	kg/m3	335.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	855.87	kg/m3	336.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	855.39	kg/m3	336.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	854.91	kg/m3	337.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	854.42	kg/m3	337.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	853.93	kg/m3	338.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	853.45	kg/m3	338.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	852.96	kg/m3	339.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	852.48	kg/m3	339.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	851.99	kg/m3	340.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	851.51	kg/m3	340.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	851.02	kg/m3	341.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	850.53	kg/m3	341.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	850.05	kg/m3	342.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	849.56	kg/m3	342.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	849.07	kg/m3	343.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	848.58	kg/m3	343.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	848.10	kg/m3	344.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	847.61	kg/m3	344.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	847.12	kg/m3	345.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	846.63	kg/m3	345.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	846.14	kg/m3	346.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	845.66	kg/m3	346.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	845.17	kg/m3	347.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	844.68	kg/m3	347.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	844.19	kg/m3	348.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	843.70	kg/m3	348.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	843.21	kg/m3	349.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	842.72	kg/m3	349.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	842.23	kg/m3	350.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	841.75	kg/m3	350.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	841.26	kg/m3	351.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	840.76	kg/m3	351.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	840.27	kg/m3	352.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	839.78	kg/m3	352.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	839.29	kg/m3	353.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	838.80	kg/m3	353.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	838.31	kg/m3	354.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	837.81	kg/m3	354.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	837.32	kg/m3	355.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	836.83	kg/m3	355.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	836.33	kg/m3	356.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	835.84	kg/m3	356.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	835.35	kg/m3	357.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	834.85	kg/m3	357.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	834.36	kg/m3	358.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	833.86	kg/m3	358.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	833.37	kg/m3	359.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	832.87	kg/m3	359.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	832.38	kg/m3	360.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	831.88	kg/m3	360.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	831.38	kg/m3	361.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	830.89	kg/m3	361.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	830.39	kg/m3	362.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	829.89	kg/m3	362.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	829.40	kg/m3	363.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	903.34	kg/m3	286.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhol	888.80	kg/m3	303.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhol	884.90	kg/m3	308.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhol	880.00	kg/m3	313.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol

rhol	875.20	kg/m3	318.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhol	901.26	kg/m3	288.15	Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure
rhol	891.90	kg/m3	298.15	Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure
rhol	882.49	kg/m3	308.15	Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure
rhol	868.23	kg/m3	323.15	Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure
rhol	858.60	kg/m3	333.15	Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure

rhol	890.30	kg/m3	303.15	Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (303.15 to 323.15) K and the System s Spectroscopic Studies
rhol	885.90	kg/m3	308.15	Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (303.15 to 323.15) K and the System s Spectroscopic Studies
rhol	881.70	kg/m3	313.15	Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (303.15 to 323.15) K and the System s Spectroscopic Studies
rhol	876.90	kg/m3	318.15	Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (303.15 to 323.15) K and the System s Spectroscopic Studies
rhol	871.30	kg/m3	323.15	Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (303.15 to 323.15) K and the System s Spectroscopic Studies
rhol	892.39	kg/m3	298.15	Densities, Viscosities, and Speeds of Sound of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K

rhol	905.99	kg/m3	283.55	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	897.17	kg/m3	293.06	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	888.38	kg/m3	302.40	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	878.63	kg/m3	312.67	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	868.62	kg/m3	323.15	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	859.34	kg/m3	332.78	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	849.65	kg/m3	342.77	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	839.92	kg/m3	352.69	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K
rhol	903.81	kg/m3	285.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhol	904.27	kg/m3	285.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K	
rhol	892.39	kg/m3	298.15	Studies of thermophysical properties of binary liquid mixtures of amine and alcohols at various temperatures	
rhol	895.32	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	867.62	kg/m3	318.15	Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-disubstituted ethanes at T = (298.15, 308.15 and 318.15) K	
rhol	885.63	kg/m3	308.15	Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-disubstituted ethanes at T = (298.15, 308.15 and 318.15) K	
rhol	894.79	kg/m3	298.15	Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-disubstituted ethanes at T = (298.15, 308.15 and 318.15) K	
rhol	896.00	kg/m3	293.00	KDB	

rhol	893.30	kg/m3	298.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
sfust	79.43	J/mol×K	284.20	NIST Webbook
sfust	2.57	J/mol×K	189.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.55228e+01
Coeff. B	-3.66858e+03
Coeff. C	-5.45700e+01
Temperature range (K), min.	284.29
Temperature range (K), max.	413.84

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	1.11320e+02
Coeff. B	-9.19093e+03
Coeff. C	-1.41955e+01
Coeff. D	1.01223e-05
Temperature range (K), min.	284.15
Temperature range (K), max.	593.00

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid

298.15	81.50	0.0013850

Reference *https://www.doi.org/10.1016/j.jct.2016.12.036*

Sources

Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K:	https://www.doi.org/10.1021/je900537y
Phase equilibrium properties of binary aqueous solutions containing ethanediamine, 1,2-diaminopropane, 1,3-diaminopropane, or 1,4-diaminobutane at several T:	https://www.doi.org/10.1016/j.jct.2010.12.010
Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,3-Diaminopropane at Several Temperatures:	https://www.doi.org/10.1021/je100290a
Density, viscosity, surface tension, and ultrasonic velocity for binary mixtures of 1,2-ethanediamine + diethylene glycol:	https://www.doi.org/10.1016/j.tca.2014.05.034
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K:	https://www.doi.org/10.1016/j.tca.2006.01.013
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Thermochemical study on the Schiff base[H2salen = N,N -bis(salicylidene) ethylenediamine] and its	https://www.doi.org/10.1016/j.tca.2013.07.004
Densities, Viscosities, and Speeds of Sound of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K:	https://www.doi.org/10.1021/je1012857
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-Ethanediamine at T = (293.15 to 323.15) K:	https://www.doi.org/10.1021/acs.jced.5b00804
Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-diamines and the system 1,2-ethanediamine + water: spectroscopic studies:	https://www.doi.org/10.1016/j.fluid.2015.06.041
NIST Webbook:	http://webbook.nist.org/cgi/cbook.cgi?ID=C107153&Units=SI
Vapor Liquid Equilibrium for Mixtures of Ethylethylenediamine, Ethylenediamine, and Water:	https://www.doi.org/10.1021/je300819g
Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanols (C1–C4) and correlation with Redlich–Kister, Wilson, NRTL and UNIQUAC models at T = 298	https://www.doi.org/10.1016/j.jct.2016.12.036
Critical Pressures and Temperatures of n-Diaminoalkanes (C2 to C12):	https://www.doi.org/10.1021/je050424e
Studies of thermophysical properties of binary liquid mixtures of amine and alcohols at various temperatures:	https://www.doi.org/10.1016/j.jct.2012.01.022
Volume properties of liquid mixture of {water (1) + ethylenediamine(2)} over the temperature range from 274.15 to 333.15 K at atmospheric pressure:	https://www.doi.org/10.1016/j.tca.2016.06.022
KDB:	https://www.cheric.org/files/research/kdb/mol/mol1318.mol
Thermodynamic studies of some non-electrolytes in aqueous solutions at low temperatures:	https://www.doi.org/10.1016/j.jct.2007.06.007
Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K:	https://www.doi.org/10.1021/je8001199
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Vapor Liquid Equilibrium for Binary Mixtures of	https://www.doi.org/10.1007/s10765-009-0570-x
PρT measurement and PC-SAFT modeling of N,N-dimethylformamide + 1,4-Diazabicyclo[2.2.2]octane with Ethylenediamine, Ethanolamine, and Ethylene Glycol:	https://www.doi.org/10.1016/j.fluid.2016.08.014
Saturation Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1318
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
N,N-dimethyl acetamide, and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa:	

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
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
hsubt:	Enthalpy of sublimation 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
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility