

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	951.00 ± 4.00	kJ/mol	NIST Webbook
affp	948.10	kJ/mol	NIST Webbook
affp	941.80	kJ/mol	NIST Webbook
affp	951.60	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	54.40 ± 1.00	kJ/mol	NIST Webbook
hvap	44.98 ± 0.12	kJ/mol	NIST Webbook
hvap	45.00 ± 0.10	kJ/mol	NIST Webbook
hvap	46.00	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 ± 0.20	kJ/mol	NIST Webbook
ie	8.60	eV	NIST Webbook
ie	9.25	eV	NIST Webbook
log10ws	0.47		Crippen Method
logp	-1.096		Crippen Method
mcpvol	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	1233.00		NIST Webbook
ripol	1265.00		NIST Webbook
ripol	1235.00		NIST Webbook
ripol	1192.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1195.00		NIST Webbook
ripol	1220.00		NIST Webbook
sl	202.42	J/molxK	NIST Webbook
tb	390.15	K	NIST Webbook
tb	391.20	K	NIST Webbook
tb	391.65 ± 0.60	K	NIST Webbook
tb	390.10	K	NIST Webbook
tb	389.70	K	NIST Webbook
tb	390.29 ± 0.30	K	NIST Webbook
tb	390.40	K	KDB
tc	613.10 ± 0.30	K	NIST Webbook

tc	593.00	K	KDB
tf	284.00	K	KDB
tf	284.15	K	NIST Webbook
tt	284.29 ± 0.01	K	NIST Webbook
tt	284.29	K	KDB
vc	0.206	m ³ /kmol	KDB
zc	0.2623830		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	138.33	J/mol×K	524.29	Joback Method
cpg	148.94	J/mol×K	591.32	Joback Method
cpg	143.76	J/mol×K	557.81	Joback Method
cpg	113.88	J/mol×K	390.22	Joback Method
cpg	120.42	J/mol×K	423.74	Joback Method
cpg	126.66	J/mol×K	457.25	Joback Method
cpg	132.63	J/mol×K	490.77	Joback Method
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	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	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	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	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	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	172.53	J/mol×K	296.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.63	J/mol×K	297.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	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	172.73	J/mol×K	299.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	172.84	J/mol×K	300.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	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	178.70	J/mol×K	313.00	NIST Webbook
cpl	172.59	J/mol×K	298.15	NIST Webbook
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	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	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	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
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	177.02	J/mol×K	347.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	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	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	176.59	J/mol×K	342.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.44	J/mol×K	341.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	176.30	J/molxK	339.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.15	J/molxK	338.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	176.01	J/molxK	336.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.86	J/molxK	335.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.72	J/molxK	333.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.58	J/molxK	332.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.43	J/molxK	330.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K

cpl	175.29	J/molxK	329.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	175.15	J/molxK	327.65	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
cpl	174.72	J/molxK	323.15	Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K
dvisc	0.0011070	Paxs	308.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
dvisc	0.0012110	Paxs	303.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
dvisc	0.0012760	Paxs	298.15	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and 308.15) K
hfust	22.58	kJ/mol	284.30	NIST Webbook
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
hsubt	65.60	kJ/mol	260.00	NIST Webbook
hvapt	45.90	kJ/mol	351.50	NIST Webbook
hvapt	45.60	kJ/mol	344.50	NIST Webbook
hvapt	43.90	kJ/mol	347.00	NIST Webbook
hvapt	37.98	kJ/mol	390.10	NIST Webbook

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	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	29.84	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

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	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	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	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	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	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	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	19.72	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
rhoI	854.91	kg/m3	337.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	878.86	kg/m3	312.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	878.38	kg/m3	312.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	877.91	kg/m3	313.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	877.44	kg/m3	313.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	876.96	kg/m3	314.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	876.48	kg/m3	314.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	876.01	kg/m3	315.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	875.53	kg/m3	315.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	875.06	kg/m3	316.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	874.58	kg/m3	316.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	874.11	kg/m3	317.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	873.63	kg/m3	317.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	873.15	kg/m3	318.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	872.68	kg/m3	318.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	872.20	kg/m3	319.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	871.72	kg/m3	319.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	871.25	kg/m3	320.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	870.77	kg/m3	320.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	870.29	kg/m3	321.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	869.81	kg/m3	321.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	869.34	kg/m3	322.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	868.86	kg/m3	322.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	868.38	kg/m3	323.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	867.90	kg/m3	323.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	867.42	kg/m3	324.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	866.94	kg/m3	324.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	866.47	kg/m3	325.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	865.99	kg/m3	325.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	865.51	kg/m3	326.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	865.03	kg/m3	326.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	864.55	kg/m3	327.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	864.07	kg/m3	327.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	863.59	kg/m3	328.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	863.11	kg/m3	328.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	862.63	kg/m3	329.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	862.14	kg/m3	329.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	861.66	kg/m3	330.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	861.18	kg/m3	330.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	860.70	kg/m3	331.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	860.22	kg/m3	331.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	859.74	kg/m3	332.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	859.25	kg/m3	332.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	858.77	kg/m3	333.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	858.29	kg/m3	333.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	857.81	kg/m3	334.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	857.32	kg/m3	334.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	856.84	kg/m3	335.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	856.36	kg/m3	335.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	855.87	kg/m3	336.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	855.39	kg/m3	336.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	879.33	kg/m3	311.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	854.42	kg/m3	337.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	853.93	kg/m3	338.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	853.45	kg/m3	338.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	852.96	kg/m3	339.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	852.48	kg/m3	339.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	851.99	kg/m3	340.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	851.51	kg/m3	340.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	851.02	kg/m3	341.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	850.53	kg/m3	341.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	850.05	kg/m3	342.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	849.56	kg/m3	342.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	849.07	kg/m3	343.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	848.58	kg/m3	343.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	848.10	kg/m3	344.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	847.61	kg/m3	344.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	847.12	kg/m3	345.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	846.63	kg/m3	345.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	846.14	kg/m3	346.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	845.66	kg/m3	346.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	845.17	kg/m3	347.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	844.68	kg/m3	347.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	844.19	kg/m3	348.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	843.70	kg/m3	348.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	843.21	kg/m3	349.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	842.72	kg/m3	349.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	842.23	kg/m3	350.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	841.75	kg/m3	350.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	841.26	kg/m3	351.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	840.76	kg/m3	351.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	840.27	kg/m3	352.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	839.78	kg/m3	352.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	839.29	kg/m3	353.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	838.80	kg/m3	353.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	838.31	kg/m3	354.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	837.81	kg/m3	354.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	837.32	kg/m3	355.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	836.83	kg/m3	355.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	836.33	kg/m3	356.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	835.84	kg/m3	356.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	835.35	kg/m3	357.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	834.85	kg/m3	357.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	834.36	kg/m3	358.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	833.86	kg/m3	358.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	833.37	kg/m3	359.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	832.87	kg/m3	359.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	832.38	kg/m3	360.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	831.88	kg/m3	360.64	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	831.38	kg/m3	361.14	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	830.89	kg/m3	361.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	830.39	kg/m3	362.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	829.89	kg/m3	362.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	829.40	kg/m3	363.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	893.30	kg/m3	298.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhoI	888.80	kg/m3	303.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhoI	884.90	kg/m3	308.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhoI	880.00	kg/m3	313.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol
rhoI	875.20	kg/m3	318.15	Density, viscosity, surface tension, and spectroscopic properties for binary system of 1,2-ethanediamine + diethylene glycol

rhoI	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
rhoI	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
rhoI	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
rhoI	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
rhoI	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

rhoI	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
rhoI	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
rhoI	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
rhoI	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
rhoI	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
rhoI	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

rhoI	905.99	kg/m3	283.55	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	897.17	kg/m3	293.06	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	888.38	kg/m3	302.40	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	878.63	kg/m3	312.67	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	868.62	kg/m3	323.15	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	859.34	kg/m3	332.78	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	849.65	kg/m3	342.77	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	839.92	kg/m3	352.69	Density for (Water + Ethylenediamine) at Temperatures between (283 and 353) K	
rhoI	879.81	kg/m3	311.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K	

rhoI	880.28	kg/m3	310.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	880.76	kg/m3	310.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	881.23	kg/m3	309.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	881.70	kg/m3	309.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	882.18	kg/m3	308.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	882.65	kg/m3	308.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	883.12	kg/m3	307.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	883.60	kg/m3	307.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	884.07	kg/m3	306.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	884.54	kg/m3	306.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	885.02	kg/m3	305.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	885.49	kg/m3	305.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	885.96	kg/m3	304.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	886.43	kg/m3	304.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	886.90	kg/m3	303.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	887.38	kg/m3	303.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	887.85	kg/m3	302.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	888.32	kg/m3	302.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	888.79	kg/m3	301.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	889.26	kg/m3	301.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	889.73	kg/m3	300.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	890.20	kg/m3	300.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	890.67	kg/m3	299.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	891.14	kg/m3	299.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	891.62	kg/m3	298.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	892.09	kg/m3	298.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	892.56	kg/m3	297.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	893.03	kg/m3	297.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	893.50	kg/m3	296.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	893.97	kg/m3	296.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	894.44	kg/m3	295.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	894.91	kg/m3	295.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	895.38	kg/m3	294.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	895.85	kg/m3	294.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	896.31	kg/m3	293.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	896.78	kg/m3	293.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	897.25	kg/m3	292.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	897.72	kg/m3	292.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	898.19	kg/m3	291.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	898.66	kg/m3	291.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	899.13	kg/m3	290.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	899.60	kg/m3	290.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	900.07	kg/m3	289.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	900.53	kg/m3	289.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	901.00	kg/m3	288.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	901.47	kg/m3	288.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	901.94	kg/m3	287.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	902.41	kg/m3	287.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	902.87	kg/m3	286.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K

rhoI	903.34	kg/m3	286.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	903.81	kg/m3	285.65	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
rhoI	892.39	kg/m3	298.15	Studies of thermophysical properties of binary liquid mixtures of amine and alcohols at various temperatures
rhoI	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
rhoI	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
rhoI	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

rhoI	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
rhoI	896.00	kg/m3	293.00	KDB
rhoI	904.27	kg/m3	285.15	Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K
sfust	79.43	J/molxK	284.20	NIST Webbook
sfust	2.57	J/molxK	189.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
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	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
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

Density, viscosity, surface tension, and spectroscopic properties for binary systems of 1,2-ethanediamine + pressure glycol: Heat Capacities of Some Liquid a,?-Alkanediamines in the Temperature Range between (293.15 and 353.15) K: <https://www.doi.org/10.1016/j.tca.2014.05.034>

Excess Properties for the Binary System of Poly(ethylene glycol) 200 + 1,2-ethanediamine at T = (298.15 to 323.15) K and Pressure Solutions of 1,2-ethanediamine in Poly(ethylene glycol) for Binary Mixtures of <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Volume and viscosity of liquid mixture of water (1) and ethylenediamine (2) over the temperature range from 274.15 to 353.15 K at constant pressure: Ethylenediamine, and Water: <https://www.doi.org/10.1021/je900537y>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Thermochemical study on the Schiff base[H2salen = N,N -bis(salicylidene) derivative from Water and 1,2-ethylenediamine) at temperatures between (283 and 353) K: Critical Pressures and Temperatures of n-Diaminoalkanes (C2 to C12): KDB Vapor Pressure Data: <https://www.doi.org/10.1021/acs.jced.5b00804>

Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K: <https://www.doi.org/10.1016/j.jct.2007.06.007>

Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-ethanediamine derivatives and Spectroscopic of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K: <https://www.doi.org/10.1007/s10765-009-0570-x>

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.doi.org/10.1016/j.tca.2016.06.022>

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.doi.org/10.1021/je300819g>

Modeling of N,N-dimethyl formamide, N-methylformamide and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C107153&Units=SI>

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

Thermochemical study on the Schiff base[H2salen = N,N -bis(salicylidene) derivative from Water and 1,2-ethylenediamine) at temperatures between (283 and 353) K: Critical Pressures and Temperatures of n-Diaminoalkanes (C2 to C12): KDB Vapor Pressure Data: <https://www.doi.org/10.1016/j.tca.2013.07.004>

Volumetric properties of the water + ethylenediamine mixture at atmospheric pressure from 288.15 to 353.15K: <https://www.doi.org/10.1021/je8001199>

Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-ethanediamine derivatives and Spectroscopic of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K: <https://www.doi.org/10.1021/je050424e>

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1318>

Modeling of N,N-dimethyl formamide, N-methylformamide and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa: <https://www.doi.org/10.1016/j.tca.2006.01.013>

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

Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-ethanediamine derivatives and Spectroscopic of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K: <https://www.cheric.org/files/research/kdb/mol/mol1318.mol>

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.doi.org/10.1016/j.fluid.2015.06.041>

Modeling of N,N-dimethyl formamide, N-methylformamide and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa: <https://www.doi.org/10.1021/je1012857>

Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-ethanediamine derivatives and Spectroscopic of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K: https://en.wikipedia.org/wiki/Joback_method

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.doi.org/10.1016/j.jct.2016.12.036>

Modeling of N,N-dimethyl formamide, N-methylformamide and ethylenediamine from T = (293.15-423.15) K and pressures up to 35 MPa: <https://www.doi.org/10.1016/j.jct.2012.01.022>

Hydrogen bond interactions in the blends of 1,4-dioxane with some 1, 2-ethanediamine derivatives and Spectroscopic of Binary Liquid Mixtures of Ethylenediamine with Alcohols at T = (293.15 to 313.15) K: <https://www.doi.org/10.1016/j.jct.2010.12.010>

Excess molar enthalpies of ethane-1,2-diamine plus primary and secondary alkanol physical properties of binary liquid mixtures of water, methanol, ethanol, propanol, and butanol with 1,2-ethanediamine at T = 298.15 K and pressures up to 25 MPa: <https://www.doi.org/10.1016/j.fluid.2016.08.014>

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
rho:	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

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