

1,3-Propanediamine, N,N-dimethyl-

Other names:	1,3-Propanediamine, N1,N1-dimethyl- 1-(Dimethylamino)-3-aminopropane 1-Amino-3-(dimethylamino)propane 3-(Dimethylamino)-1-aminopropane 3-(Dimethylamino)-1-propanamine 3-(Dimethylamino)-1-propylamine 3-(dimethylamino)propylamine 3-Amino-1-(dimethylamino)propane 3-Dimethylamino-n-propylamine 3-aminopropyldimethylamine 3-dimethylamino-1-propylamine 3-dimethylaminopropylamine H2N(CH2)3N(CH3)2 N,N-Dimethyl-1,3-diaminopropane N,N-Dimethyl-1,3-propylenediamine N,N-Dimethyl-N-(3-aminopropyl)amine N,N-Dimethylpropylene-1,3-diamine N,N-Dimethylpropylenediamine N,N-Dimethyltrimethylenediamine N,N-dimethyl-1,3-propanediamine N-(3-aminopropyl)dimethylamine NSC 1067 Propylamine, 3-(N,N-dimethylamino)- «gamma»-(Dimethylamino)propylamine
Inchi:	InChI=1S/C5H14N2/c1-7(2)5-3-4-6/h3-6H2,1-2H3
InchiKey:	IUNMPGNGSSIWFP-UHFFFAOYSA-N
Formula:	C5H14N2
SMILES:	CN(C)CCCN
Mol. weight [g/mol]:	102.18
CAS:	109-55-7

Physical Properties

Property code	Value	Unit	Source
affp	1025.00	kJ/mol	NIST Webbook
basg	975.30	kJ/mol	NIST Webbook
chl	-3891.10 ± 0.50	kJ/mol	NIST Webbook

chl	-3891.50 ± 4.00	kJ/mol	NIST Webbook
chl	-3876.00 ± 2.00	kJ/mol	NIST Webbook
gf	168.45	kJ/mol	Joback Method
hf	-44.80	kJ/mol	NIST Webbook
hf	-34.70 ± 4.00	kJ/mol	NIST Webbook
hf	-35.10	kJ/mol	NIST Webbook
hfl	-77.30 ± 0.50	kJ/mol	NIST Webbook
hfl	-76.90 ± 4.00	kJ/mol	NIST Webbook
hfus	16.92	kJ/mol	Joback Method
hvap	47.28	kJ/mol	NIST Webbook
hvap	42.24 ± 0.09	kJ/mol	NIST Webbook
hvap	42.20	kJ/mol	NIST Webbook
log10ws	0.08		Crippen Method
logp	-0.103		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3704.46	kPa	Joback Method
sl	323.00	J/molxK	NIST Webbook
tb	405.20	K	NIST Webbook
tb	408.05	K	NIST Webbook
tb	406.00	K	NIST Webbook
tc	578.11	K	Joback Method
tf	261.84	K	Joback Method
tt	194.43 ± 0.02	K	NIST Webbook
vc	0.362	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.04	J/molxK	398.77	Joback Method
cpg	212.39	J/molxK	428.66	Joback Method
cpg	223.25	J/molxK	458.55	Joback Method
cpg	233.62	J/molxK	488.44	Joback Method
cpg	243.52	J/molxK	518.33	Joback Method
cpg	252.96	J/molxK	548.22	Joback Method
cpg	261.97	J/molxK	578.11	Joback Method
cpl	248.71	J/molxK	298.00	NIST Webbook
cpl	255.70	J/molxK	298.15	NIST Webbook
cpl	249.00	J/molxK	295.96	NIST Webbook
hfust	12.38	kJ/mol	194.43	NIST Webbook
hfust	12.38	kJ/mol	194.40	NIST Webbook

hvapt	46.00	kJ/mol	298.15	Vapor pressure and enthalpy of vaporization of aliphatic propanediamines
hvapt	44.10 ± 0.20	kJ/mol	290.00	NIST Webbook
pvap	0.38	kPa	283.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	0.38	kPa	283.06	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	0.75	kPa	293.13	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 1.40 kPa 303.16 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 2.48 kPa 313.21 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 4.19 kPa 323.27 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap	6.83	kPa	333.32	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	10.73	kPa	343.37	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	10.72	kPa	343.37	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 16.31 kPa 353.41 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 24.10 kPa 363.44 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 0.18 kPa 273.04 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap	0.75	kPa	293.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	1.40	kPa	303.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	2.46	kPa	313.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 4.16 kPa 323.15 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 6.76 kPa 333.15 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap 10.61 kPa 343.15 Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K

pvap	16.15	kPa	353.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
pvap	23.90	kPa	363.15	Phase equilibrium measurements and thermodynamic modeling of aqueous solutions of polyamines CO2 absorbents: 3-aminopropylmethylamine, 3-aminopropyldimethylamine and N,N-diethyl 1,3-propanediamine at temperatures from 273 K to 363 K
rhoI	799.82	kg/m3	312.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rhoI	829.93	kg/m3	278.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rhoI	829.49	kg/m3	279.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	829.05	kg/m ³	279.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	828.61	kg/m ³	280.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	828.17	kg/m ³	280.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	827.73	kg/m ³	281.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	827.29	kg/m ³	281.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	826.84	kg/m ³	282.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	826.40	kg/m ³	282.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	825.96	kg/m ³	283.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	825.52	kg/m ³	283.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	825.08	kg/m ³	284.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	824.64	kg/m ³	284.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	824.20	kg/m ³	285.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	823.76	kg/m ³	285.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	823.32	kg/m ³	286.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	822.88	kg/m ³	286.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	822.44	kg/m ³	287.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	822.00	kg/m ³	287.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	821.56	kg/m ³	288.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	821.12	kg/m ³	288.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	820.67	kg/m ³	289.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	820.23	kg/m ³	289.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	819.79	kg/m ³	290.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	819.35	kg/m ³	290.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	818.91	kg/m ³	291.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	818.47	kg/m ³	291.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	818.03	kg/m ³	292.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	817.58	kg/m ³	292.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	817.14	kg/m ³	293.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	816.70	kg/m ³	293.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	816.26	kg/m ³	294.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	815.82	kg/m ³	294.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	815.37	kg/m ³	295.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	814.93	kg/m ³	295.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	814.49	kg/m ³	296.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	814.05	kg/m ³	296.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	813.60	kg/m ³	297.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	813.16	kg/m ³	297.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	812.72	kg/m ³	298.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	812.27	kg/m ³	298.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	811.83	kg/m ³	299.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	811.39	kg/m ³	299.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	810.94	kg/m ³	300.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	810.50	kg/m ³	300.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	810.06	kg/m ³	301.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	809.61	kg/m ³	301.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	809.17	kg/m ³	302.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	808.72	kg/m ³	302.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	808.28	kg/m ³	303.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	807.84	kg/m ³	303.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	807.39	kg/m ³	304.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	806.95	kg/m ³	304.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	806.50	kg/m ³	305.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	806.06	kg/m ³	305.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	805.61	kg/m ³	306.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	805.17	kg/m ³	306.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	804.72	kg/m ³	307.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	804.28	kg/m ³	307.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	803.83	kg/m ³	308.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	803.39	kg/m ³	308.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	802.94	kg/m ³	309.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	802.50	kg/m ³	309.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	802.05	kg/m ³	310.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	801.61	kg/m ³	310.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	801.16	kg/m ³	311.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	800.72	kg/m ³	311.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	800.27	kg/m ³	312.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	830.37	kg/m ³	278.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	799.38	kg/m ³	313.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	798.93	kg/m ³	313.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	798.48	kg/m ³	314.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	798.04	kg/m ³	314.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	797.59	kg/m ³	315.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	797.14	kg/m ³	315.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	796.69	kg/m ³	316.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	796.25	kg/m ³	316.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	795.80	kg/m ³	317.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	795.35	kg/m ³	317.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	794.90	kg/m ³	318.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	794.45	kg/m ³	318.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	794.01	kg/m ³	319.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	793.56	kg/m ³	319.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	793.11	kg/m ³	320.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	792.66	kg/m ³	320.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	792.21	kg/m ³	321.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	791.76	kg/m ³	321.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	791.31	kg/m ³	322.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	790.86	kg/m ³	322.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	790.41	kg/m ³	323.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	789.96	kg/m ³	323.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	789.52	kg/m ³	324.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	789.06	kg/m ³	324.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	788.62	kg/m ³	325.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	788.17	kg/m ³	325.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	787.72	kg/m ³	326.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	787.26	kg/m ³	326.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	786.81	kg/m ³	327.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	786.36	kg/m ³	327.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	785.91	kg/m ³	328.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	785.46	kg/m ³	328.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	785.01	kg/m ³	329.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	784.56	kg/m ³	329.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	784.11	kg/m ³	330.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	783.65	kg/m ³	330.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	783.20	kg/m ³	331.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	782.75	kg/m ³	331.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	782.30	kg/m ³	332.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	781.84	kg/m ³	332.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	781.39	kg/m ³	333.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	780.94	kg/m ³	333.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	780.49	kg/m ³	334.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	780.03	kg/m ³	334.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	779.58	kg/m ³	335.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	779.12	kg/m ³	335.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	778.67	kg/m ³	336.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	778.22	kg/m ³	336.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	777.76	kg/m ³	337.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	777.31	kg/m ³	337.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	776.85	kg/m ³	338.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	776.40	kg/m ³	338.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	812.78	kg/m ³	298.15	Density, Speed of Sound, Viscosity and Surface Tension of 3-Dimethylamino-1-propylamine + Water, 3-Amino-1-propanol + 3-Dimethylamino-1-propanol, and (3-Amino-1-propanol + 3-Dimethylamino-1-propanol) + Water from T = (293.15 to 323.15) K
rho	775.49	kg/m ³	339.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	775.03	kg/m ³	340.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	774.57	kg/m ³	340.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	774.11	kg/m ³	341.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	773.66	kg/m ³	341.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	773.20	kg/m ³	342.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	772.74	kg/m ³	342.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	772.29	kg/m ³	343.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	771.83	kg/m ³	343.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	771.37	kg/m ³	344.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	770.91	kg/m ³	344.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	770.45	kg/m ³	345.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	769.99	kg/m ³	345.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	769.53	kg/m ³	346.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	769.08	kg/m ³	346.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	768.62	kg/m ³	347.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	768.16	kg/m ³	347.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	767.70	kg/m ³	348.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	767.24	kg/m ³	348.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	766.78	kg/m ³	349.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	766.32	kg/m ³	349.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	765.86	kg/m ³	350.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	765.40	kg/m ³	350.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	764.94	kg/m ³	351.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	764.48	kg/m ³	351.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	764.02	kg/m ³	352.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	763.56	kg/m ³	352.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	763.10	kg/m ³	353.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	762.64	kg/m ³	353.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	762.17	kg/m ³	354.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	761.71	kg/m ³	354.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	761.25	kg/m ³	355.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	760.79	kg/m ³	355.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	760.33	kg/m ³	356.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	759.86	kg/m ³	356.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	759.40	kg/m ³	357.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	758.94	kg/m ³	357.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	758.48	kg/m ³	358.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	758.01	kg/m ³	358.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	757.55	kg/m ³	359.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	757.08	kg/m ³	359.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	756.62	kg/m ³	360.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	756.15	kg/m ³	360.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	755.69	kg/m ³	361.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	755.22	kg/m ³	361.65	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	754.75	kg/m ³	362.15	Volumetric properties of the water + 3-(dimethylamino) propylamine (DMAPA) mixture at atmospheric pressure from 283.15 to 353.15K

rho	754.28	kg/m ³	362.65	Volumetric properties of the water + 3-(dimethylamino)propylamine (DMA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	753.82	kg/m ³	363.15	Volumetric properties of the water + 3-(dimethylamino)propylamine (DMA) mixture at atmospheric pressure from 283.15 to 353.15K
rho	775.94	kg/m ³	339.15	Volumetric properties of the water + 3-(dimethylamino)propylamine (DMA) mixture at atmospheric pressure from 283.15 to 353.15K
sfust	63.70	J/molxK	194.43	NIST Webbook

Sources

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affp: Proton affinity
basg: Gas basicity

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
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
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rho:	Liquid Density
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

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