

ETHANOL, 2,2'-IMINOBIS-

Other names:	2,2'-Dihydroxydiethylamine
	2,2'-Iminobis[ethanol]
	2,2'-Iminodi-1-ethanol
	2,2'-azanediylbis(ethan-1-ol)
	2,2'-iminobis-ethanol
	2,2'-iminodiethanol
	2-[(2-Hydroxyethyl)amino]ethanol
	Bis(hydroxyethyl)amine
	DEA
	Dabco DEOA-LF
	Di(2-hydroxyethyl)amine
	Diaethanolamin
	Diethanol, 2,2'-imino-
	Diethanolamin
	Diethylamine, 2,2'-dihydroxy-
	Diethylolamine
	Diolamine
	Ethanol, 2,2'-iminodi-
	N,N'-Iminodiethanol
	N,N-Bis(2-hydroxyethyl)amine
	N,N-Diethanolamine
	NCI-C55174
	NSC 4959
	Niax DEOA-LF
	bis(2-hydroxyethyl)amine
	diethanolamine
	iminodiethanol
Inchi:	InChI=1S/C4H11NO2/c6-3-1-5-2-4-7/h5-7H,1-4H2
InchiKey:	ZBCBWPMODOFKDW-UHFFFAOYSA-N
Formula:	C4H11NO2
SMILES:	OCCNCCO
Mol. weight [g/mol]:	105.14
CAS:	111-42-2

Physical Properties

Property code	Value	Unit	Source
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affp	953.00	kJ/mol	NIST Webbook
basg	920.00	kJ/mol	NIST Webbook
chs	-2652.30 ± 2.50	kJ/mol	NIST Webbook
dvisc	0.5665700	Paxs	Densities, Viscosities, and Refractive Indices of Aqueous Alkanolamine Solutions as Potential Carbon Dioxide Removal Reagents
hf	-397.10 ± 2.90	kJ/mol	NIST Webbook
hfs	-493.80 ± 2.60	kJ/mol	NIST Webbook
hfus	19.39	kJ/mol	Joback Method
hsub	105.90 ± 2.00	kJ/mol	NIST Webbook
hsub	96.70 ± 1.20	kJ/mol	NIST Webbook
hvap	83.69	kJ/mol	Cheméo Relay (1.0)
log10ws	1.00		Cheméo Relay (1.0)
logp	-1.439		Crippen Method
mcvol	88.940	ml/mol	McGowan Method
nfpaf	%!d(float64=1)		KDB
nfpah	%!d(float64=1)		KDB
pc	5065.79	kPa	Joback Method
ripol	2200.00		NIST Webbook
ripol	2141.00		NIST Webbook
ripol	2180.00		NIST Webbook
ripol	2200.00		NIST Webbook
tb	541.55	K	NIST Webbook
tb	544.20	K	NIST Webbook
tb	542.46	K	Experimental and predicted vapor-liquid equilibrium for binary systems with diethanolamine, m-cresol and p-cresol at 20.0 kPa
tc	711.35	K	Cheméo Relay (1.0)
tf	301.15	K	NIST Webbook
tf	300.15	K	Thermodynamic and Kinetic Studies of CO2 Capture by Glycol and Amine-Based Deep Eutectic Solvents
tf	301.20 ± 0.60	K	NIST Webbook
tf	301.10 ± 0.07	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	212.00	J/mol×K	525.45	Joback Method
cpg	219.00	J/mol×K	552.46	Joback Method
cpg	225.71	J/mol×K	579.47	Joback Method
cpg	232.16	J/mol×K	606.48	Joback Method
cpg	238.34	J/mol×K	633.49	Joback Method
cpg	244.26	J/mol×K	660.50	Joback Method
cpg	249.93	J/mol×K	687.52	Joback Method
cps	137.00	J/mol×K	298.15	NIST Webbook
dvisc	0.0337900	Pa×s	343.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0025220	Pa×s	423.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0613600	Pa×s	333.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0036090	Pa×s	413.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.0045840	Pa×s	403.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0059850	Pa×s	393.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0080110	Pa×s	383.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0104110	Pa×s	373.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0148080	Pa×s	363.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K

dvisc	0.1006000	Pa×s	323.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.1835000	Pa×s	313.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.3805000	Pa×s	303.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
dvisc	0.0231350	Pa×s	353.15	Viscometric and volumetric behaviour of binary mixtures of sulfolane and N-methylpyrrolidone with monoethanolamine and diethanolamine in the range 303 373 K
epr	22.13		328.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions

epr	22.63		323.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions
epr	23.28		318.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions
epr	23.86		313.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions
epr	24.30		308.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions
epr	24.69		303.15	Dielectric Constants of Aqueous Diisopropanolamine, Diethanolamine, N-Methyldiethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol Solutions
hvapt	74.40	kJ/mol	482.50	NIST Webbook
hvapt	70.60	kJ/mol	490.00	NIST Webbook
hvapt	69.00	kJ/mol	522.50	NIST Webbook
hvapt	77.00	kJ/mol	415.00	NIST Webbook
pvap	4.94	kPa	452.40	Vapor Pressures of Several Commercially Used Alkanolamines

pvap	3.94	kPa	447.40	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	2.94	kPa	441.40	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	1.94	kPa	433.00	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	1.44	kPa	427.50	Vapor Pressures of Several Commercially Used Alkanolamines
rhoI	1077.88	kg/m3	323.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1090.50	kg/m3	303.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1064.14	kg/m3	343.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K

rhoI	1060.68	kg/m3	348.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
rhoI	1056.83	kg/m3	353.15	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
rhoI	1084.70	kg/m3	313.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K
rhoI	1077.40	kg/m3	323.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K

rhoI	1070.30	kg/m3	333.15	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K
rhoI	1094.02	kg/m3	298.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1090.79	kg/m3	303.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1087.51	kg/m3	308.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K

rhoI	1084.20	kg/m3	313.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1080.86	kg/m3	318.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1077.49	kg/m3	323.15	Densities and Viscosities of Aqueous Ternary Mixtures of 2-(Methylamino)ethanol and 2-(Ethylamino)ethanol with Diethanolamine, Triethanolamine, N-Methyldiethanolamine, or 2-Amino-1-methyl-1-propanol from 298.15 to 323.15 K
rhoI	1096.10	kg/m3	293.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K

rhoI	1089.80	kg/m3	303.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhoI	1083.70	kg/m3	313.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhoI	1077.40	kg/m3	323.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhoI	1070.70	kg/m3	333.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K

rhoI	1077.78	kg/m3	323.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
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rhoI	1084.49	kg/m3	313.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
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rhoI	1091.06	kg/m3	303.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
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rhoI	1097.51	kg/m3	293.15	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
rhoI	1103.88	kg/m3	283.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
rhoI	1107.05	kg/m3	278.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K

rhoI	1063.50	kg/m3	343.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1070.30	kg/m3	333.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1077.10	kg/m3	323.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1083.90	kg/m3	313.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures

rhoI	1071.00	kg/m3	333.14	Densities and Excess Molar Volumes for Binary Mixtures of Diethanolamine with Water, Methanol, Ethanol and Ternary Solutions of Diethanolamine + Water with Methanol, Ethanol at Atmospheric Pressure from 278.15 to 353.15 K
rhoI	1097.40	kg/m3	293.15	Volumetric and viscometric behaviour of the binary systems of N-methyldiethanolamine and diethanolamine with 1-butyl-3-methylimidazolium acetate at various temperatures
rhoI	1050.24	kg/m3	363.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1097.61	kg/m3	293.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1057.31	kg/m3	353.14	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1064.25	kg/m3	343.14	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K

rhoI	1091.17	kg/m3	303.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1084.60	kg/m3	313.15	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
rhoI	1071.11	kg/m3	333.14	Volumetric properties of binary mixtures of dimethyl sulfoxide with amines from (293.15 to 363.15) K
speedsl	1698.70	m/s	308.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1711.55	m/s	303.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K

speedsl	1711.30	m/s	303.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K
speedsl	1660.36	m/s	323.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1685.90	m/s	313.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K
speedsl	1661.10	m/s	323.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K

speedsl	1736.54	m/s	293.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1723.96	m/s	298.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
speedsl	1739.20	m/s	293.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K
speedsl	1673.76	m/s	318.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K

speedsl	1686.13	m/s	313.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of Binary Mixtures of 1-Amino-2-propanol or 3-Amino-1-propanol with 2-Amino-2-methyl-1-propanol, Diethanolamine, or Triethanolamine from (293.15 to 323.15) K
srf	0.04	N/m	313.20	Investigation of surface tension and viscosity for aqueous solutions of MEA-MeOH and DEA-MeOH
srf	0.05	N/m	313.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.05	N/m	323.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.05	N/m	298.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K

srf	0.05	N/m	293.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.05	N/m	303.15	Density, speed of sound, viscosity, refractive index and surface tension of N-methyl-2-pyrrolidone + diethanolamine (or triethanolamine) from T = (293.15 to 323.15) K
srf	0.04	N/m	323.20	Investigation of surface tension and viscosity for aqueous solutions of MEA-MeOH and DEA-MeOH
srf	0.05	N/m	303.20	Investigation of surface tension and viscosity for aqueous solutions of MEA-MeOH and DEA-MeOH

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	490.20	K	20.00	NIST Webbook
tbrp	427.70	K	1.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.72949e+01

Coeff. B	-5.79247e+03
Coeff. C	-8.45980e+01
Temperature range (K), min.	425.18
Temperature range (K), max.	567.97

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.16769e+02
Coeff. B	-1.89915e+04
Coeff. C	-2.88239e+01
Coeff. D	1.48221e-05
Temperature range (K), min.	301.15
Temperature range (K), max.	542.15

Datasets

Mass density, kg/m3

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m3 - Liquid
100.00	298.15	1093.6
100.00	303.15	1090.4
100.00	308.15	1087.1
100.00	313.15	1083.8
100.00	318.15	1080.6
100.00	323.15	1077.4
100.00	328.15	1074.1
100.00	333.15	1070.8
100.00	338.15	1067.4
100.00	343.15	1064.0
100.00	348.15	1060.6
100.00	353.15	1057.2
100.00	358.15	1053.7
100.00	363.15	1050.1
700.00	373.15	1043.3
700.00	383.15	1035.5
700.00	393.15	1028.1
700.00	403.15	1020.5

700.00	413.15	1012.9
700.00	423.15	1004.8
Reference		https://www.doi.org/10.1021/je300345m

Sources

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mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rho:	Liquid Density
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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