

Triethanolamine

Other names:	2,2',2''-Nitrilotriethanol 2,2',2''-Nitrilotris[ethanol] 2,2',2''-nitrilotris-ethanol 2,2',2-Nitrilotris(ethanol) Alkanolamine 244 DALTOGEN Ethanol, 2,2',2''-nitrilotri- Ethanol, 2,2',2''-nitrilotris- N(CH ₂ CH ₂ OH) ₃ NSC 36718 Nitrilo-2,2',2''-triethanol Nitrilotriethanol Sterolamide Sting-Kill TEA TRIETHYLOLAMINE TROLAMINE Tea (amino alcohol) Teoa Thiofaco T-35 Tri(hydroxyethyl)amine Triaethanolamin-NG Triethanolamin Triethylamine, 2,2',2''-trihydroxy- Trihydroxytriethylamine Tris(2-hydroxyethyl)amine Tris(beta-hydroxyethyl)amine Tris(«beta»-hydroxyethyl)amine Tris(Â«betaÂ»-hydroxyethyl)amine Trola
Inchi:	InChI=1S/C6H15NO3/c8-4-1-7(2-5-9)3-6-10/h8-10H,1-6H2
InchiKey:	GSEJCLTVZPLZKY-UHFFFAOYSA-N
Formula:	C6H15NO3
SMILES:	OCCN(CCO)CCO
Mol. weight [g/mol]:	149.19
CAS:	102-71-6

Physical Properties

Property code	Value	Unit	Source
chl	-3840.60 ± 1.50	kJ/mol	NIST Webbook
gf	-300.04	kJ/mol	Joback Method
hf	-558.30 ± 2.70	kJ/mol	NIST Webbook
hfl	-664.20 ± 1.50	kJ/mol	NIST Webbook
hfus	26.58	kJ/mol	Joback Method
hvap	105.90 ± 2.20	kJ/mol	NIST Webbook
ie	7.90	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
log10ws	1.31		Crippen Method
logp	-1.735		Crippen Method
mcvol	122.990	ml/mol	McGowan Method
nfpaf	%!d(float64=1)		KDB
nfpah	%!d(float64=1)		KDB
nfpas	%!d(float64=1)		KDB
pc	4328.25	kPa	Joback Method
tb	608.55	K	NIST Webbook
tc	782.14	K	Joback Method
tf	294.40 ± 0.60	K	NIST Webbook
tf	294.72 ± 0.10	K	NIST Webbook
tf	294.75	K	NIST Webbook
vc	0.447	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.83	J/mol×K	625.66	Joback Method
cpg	365.94	J/mol×K	729.98	Joback Method
cpg	358.91	J/mol×K	703.90	Joback Method
cpg	351.56	J/mol×K	677.82	Joback Method
cpg	343.87	J/mol×K	651.74	Joback Method
cpg	379.07	J/mol×K	782.14	Joback Method
cpg	372.65	J/mol×K	756.06	Joback Method
cpl	389.00	J/mol×K	298.15	NIST Webbook

dvisc	0.3982000	Paxs	303.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.0379400	Paxs	343.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.0608100	Paxs	333.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.1036000	Paxs	323.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
dvisc	0.1959000	Paxs	313.15	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems
hvapt	79.30	kJ/mol	551.00	NIST Webbook
pvap	2.13e-03	kPa	375.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine

pvap	8.35e-04	kPa	365.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	5.00e-03	kPa	385.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.02	kPa	405.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.04	kPa	415.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.08	kPa	425.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.13	kPa	435.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.22	kPa	445.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine

pvap	0.34	kPa	455.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.01	kPa	395.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
pvap	0.51	kPa	465.00	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine
rfi	1.48320		298.15	Density, Speed of Sound, Refractive Index, and Viscosity of 1-Amino-2-Propanol {or Bis(2-hydroxypropyl)amine} + Triethanolamine + Water from T = (288.15 to 333.15) K
rho1	1120.99	kg/m ³	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

rho	1118.21	kg/m ³	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
rho	1115.38	kg/m ³	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
rho	1112.57	kg/m ³	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
rho	1112.80	kg/m ³	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	1109.78	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	1106.93	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	1118.50	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	1107.10	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	1101.50	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	1124.30	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
speedsl	1626.90	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	1600.52	m/s	303.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K

speedsl	1610.51	m/s	298.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1586.99	m/s	313.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1578.75	m/s	318.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K

speedsl	1570.58	m/s	323.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (293.15 to 323.15) K
speedsl	1617.81	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	1610.51	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	1600.52	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
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speedsl	1595.45	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
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speedsl	1586.99	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
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speedsl	1578.75	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	1570.58	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	1570.60	m/s	323.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1578.80	m/s	318.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C

speedsl	1587.00	m/s	313.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1595.50	m/s	308.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1604.50	m/s	303.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1614.50	m/s	298.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C
speedsl	1631.10	m/s	288.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C

speedsl	1571.90	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	1587.80	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	1605.30	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	1623.90	m/s	293.15	Density, Speed of Sound, and Isentropic Compressibility of Triethanolamine (or N-Methyldiethanolamine) + Water + Ethanol Solutions from t = (15 to 50) deg C

speedsl	1595.45	m/s	308.15	Density, Speed of Sound, Isentropic Compressibility, and Excess Volume of (Monoethanolamine + 2-Amino-2-methyl-1-propanol), (Monoethanolamine + Triethanolamine), and (Monoethanolamine + N-Methyldiethanolamine) at Temperatures from (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	0.05	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	0.04	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	303.15	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine
srf	0.04	N/m	313.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.04	N/m	323.15	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine
srf	0.04	N/m	333.15	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine
srf	0.04	N/m	343.15	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine
srf	0.05	N/m	288.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol

srf	0.05	N/m	293.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.05	N/m	298.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.05	N/m	303.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.04	N/m	308.15	Surface Tension of Binary Mixtures of N-Methyldiethanolamine and Triethanolamine with Ethanol
srf	0.04	N/m	313.15	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	464.70	K	0.70	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.11675e+02

Coeff. B	-2.09292e+04
Coeff. C	-2.75376e+01
Coeff. D	1.02336e-05
Temperature range (K), min.	294.35
Temperature range (K), max.	787.00

Sources

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Legend

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
nfpas:	NFPA Safety Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rho:	Liquid Density
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
vc:	Critical Volume

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