

Ethanol, 2-(2-aminoethoxy)-

Other names:	1-Amino-2-(2-hydroxyethoxy)ethane
	2-(2-Hydroxyethoxy)ethylamine
	2-(2-aminoethoxy)ethanol
	2-(Hydroxyethoxy)ethylamine
	2-Amino-2'-hydroxydiethyl ether
	2-Aminoethoxyethanol
	2-Aminoethyl 2-hydroxyethyl ether
	5-Hydroxy-3-oxapentylamine
	Aminoethoxyethanol
	Diethylene glycol amine
	Diethylene glycol monoamine
	Diglycolamine agent
	NSC 86108
	diglycolamine
	«beta»-(«beta»-Hydroxyethoxy)ethylamine
	«beta»-Hydroxy-«beta»'-aminoethyl ether
Inchi:	InChI=1S/C4H11NO2/c5-1-3-7-4-2-6/h6H,1-5H2
InchiKey:	GIAFURWZWWBQT-UHFFFAOYSA-N
Formula:	C4H11NO2
SMILES:	NCCOCCO
Mol. weight [g/mol]:	105.14
CAS:	929-06-6

Physical Properties

Property code	Value	Unit	Source
hf	-409.42	kJ/mol	Cheméo Relay (1.0)
hfus	16.59	kJ/mol	Joback Method
hvap	54.89	kJ/mol	Cheméo Relay (1.0)
ie	9.40	eV	Cheméo Relay (1.0)
log10ws	1.05		Cheméo Relay (1.0)
logp	-1.046		Crippen Method
mcvol	88.940	ml/mol	McGowan Method
pc	4800.00	kPa	Critical Point and Vapor Pressure Measurements for 17 Compounds by a Low Residence Time Flow Method
tb	494.20	K	NIST Webbook

tc	700.79	K	Cheméo Relay (1.0)
tf	246.72	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.12	J/mol×K	478.05	Joback Method
cpg	242.47	J/mol×K	653.33	Joback Method
cpg	236.06	J/mol×K	624.11	Joback Method
cpg	229.39	J/mol×K	594.90	Joback Method
cpg	222.47	J/mol×K	565.69	Joback Method
cpg	215.28	J/mol×K	536.48	Joback Method
cpg	207.83	J/mol×K	507.26	Joback Method
pvap	0.07	kPa	336.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.14	kPa	346.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	3.68e-03	kPa	303.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	5.00e-03	kPa	306.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	6.30e-03	kPa	308.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	7.93e-03	kPa	311.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines

pvap	9.58e-03	kPa	313.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.01	kPa	316.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.02	kPa	318.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.02	kPa	321.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.03	kPa	324.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.03	kPa	326.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.04	kPa	329.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.05	kPa	331.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	0.06	kPa	334.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines
pvap	1.94	kPa	391.50	Vapor Pressures of Several Commercially Used Alkanolamines

pvap	0.09	kPa	339.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.10	kPa	341.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.12	kPa	344.30	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	24.90	kPa	450.10	Vapor Pressures of Several Commercially Used Alkanolamines	
pvap	0.17	kPa	349.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.21	kPa	351.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.24	kPa	353.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.29	kPa	356.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	0.36	kPa	359.20	Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines	
pvap	2.94	kPa	399.40	Vapor Pressures of Several Commercially Used Alkanolamines	

pvap	3.94	kPa	405.30	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	4.94	kPa	410.10	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	7.44	kPa	419.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	9.94	kPa	426.00	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	14.90	kPa	436.20	Vapor Pressures of Several Commercially Used Alkanolamines
pvap	19.90	kPa	443.90	Vapor Pressures of Several Commercially Used Alkanolamines
rho1	1015.24	kg/m3	343.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions
rho1	1023.46	kg/m3	333.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions
rho1	1031.63	kg/m3	323.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions
rho1	1039.73	kg/m3	313.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions
rho1	1047.80	kg/m3	303.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions

rhoI	1055.86	kg/m3	293.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions
rhoI	1063.90	kg/m3	283.15	Densities and Excess Properties of Primary Amines in Alcoholic Solutions

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.49459e+01
Coeff. B	-7.47109e+03
Coeff. C	-1.02786e+02
Temperature range (K), min.	405.77
Temperature range (K), max.	483.30

Sources

Solubility data for toluene in various aqueous alkanolamine solutions: Densities and Excess Properties of Primary Amines in Alcoholic Solutions: NIST Webbook:	https://www.doi.org/10.1016/j.jct.2006.07.027 https://www.doi.org/10.1021/je3013205 http://webbook.nist.gov/cgi/cbook.cgi?ID=C929066&Units=SI
Solubility of ethylbenzene and xylene in pure water and aqueous alkanolamine solutions: Solubility of Ethane in Aqueous Solutions of 2-(2-Aminoethoxy)ethanol: Joback Method:	https://www.doi.org/10.1016/j.jct.2008.01.021 https://www.doi.org/10.1021/je100796f https://en.wikipedia.org/wiki/Joback_method
Solubility data for benzene in aqueous solutions of methyl-diethanolamine (MDEA) and diglycolamine (DGA): Wipac Method:	https://www.doi.org/10.1016/j.tca.2006.01.012 https://www.chemeo.com/doc/models/crippen_log10ws
Thermodynamics and Equilibrium Solubility of Carbon Dioxide in Aqueous Alkanolamine Solutions: Mutual Diffusion Coefficients of Some Aqueous Alkanolamines Solutions: McGowan Method:	https://www.doi.org/10.1021/je050472z https://www.doi.org/10.1021/je049828h http://link.springer.com/article/10.1007/BF02311772
Excess molar enthalpies for binary mixtures of different amines with water: Vapor Pressures of Several Commercially Used Alkanolamines: Vapor Pressures and Enthalpies of Vaporization of a Series of Low-Volatile Alkanolamines: Handbook of Vapor Pressure:	https://www.doi.org/10.1016/j.jct.2015.04.030 https://www.doi.org/10.1021/je101259r https://www.doi.org/10.1021/je2002489 https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Crippen Method:

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

Cheméo Relay (1.0, beta):

**Critical Point and Vapor Pressure
Measurements for 17 Compounds by a
Cheméo Relay (1.0)
Low Residence Time Flow Method:**

<https://www.doi.org/10.1021/je060269j>

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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