

2-(2-Diethylaminoethoxy)-ethanol

Other names:	N,N-Diethylethoxyethanolamine «beta»-(Diethylamino ethoxy)ethanol Ethanol, 2-[2-(diethylamino)ethoxy]- Diethylaminoethoxyethanol 2-«beta»-Diethylaminoethoxyethanol
Inchi:	InChI=1S/C8H19NO2/c1-3-9(4-2)5-7-11-8-6-10/h10H,3-8H2,1-2H3
InchiKey:	VKBVRNHODPFVHK-UHFFFAOYSA-N
Formula:	C8H19NO2
SMILES:	CCN(CC)CCOCCO
Mol. weight [g/mol]:	161.24
CAS:	140-82-9

Physical Properties

Property code	Value	Unit	Source
gf	-114.56	kJ/mol	Joback Method
hf	-425.37	kJ/mol	Joback Method
hfus	24.77	kJ/mol	Joback Method
hvap	54.53	kJ/mol	Joback Method
log10ws	-0.09		Crippen Method
logp	0.337		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
pc	2732.56	kPa	Joback Method
rinpol	1162.00		NIST Webbook
tb	509.48	K	Joback Method
tc	668.20	K	Joback Method
tf	295.44	K	Joback Method
vc	0.538	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.14	J/mol×K	509.48	Joback Method
cpg	360.24	J/mol×K	535.93	Joback Method
cpg	371.90	J/mol×K	562.39	Joback Method

cpg	383.12	J/mol×K	588.84	Joback Method
cpg	393.90	J/mol×K	615.29	Joback Method
cpg	404.26	J/mol×K	641.74	Joback Method
cpg	414.21	J/mol×K	668.20	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C140829&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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