Ethanamine, 2,2-diethoxy-

Other names:	Acetaldehyde, amino-, diethyl acetal
	«alpha»-Aminoacetaldehyde diethyl acetal
	«beta»,«beta»-Diethoxyethylamine
	Aminoacetaldehyde diethyl acetal
	Glycinaldehyde diethyl acetal
	2-Aminoacetaldehyde diethyl acetal
	2,2-Diethoxyethylamine
	2,2-Diethoxyethanamine
	NSC 19501
Inchi:	InChI=1S/C6H15NO2/c1-3-8-6(5-7)9-4-2/h6H,3-5,7H2,1-2H3
InchiKey:	HJKLEAOXCZIMPI-UHFFFAOYSA-N
Formula:	C6H15NO2
SMILES:	CCOC(CN)OCC
Mol. weight [g/mol]:	133.19
CAS:	645-36-3

Physical Properties

Property code	Value	Unit	Source
gf	-146.35	kJ/mol	Joback Method
hf	-403.10	kJ/mol	Joback Method
hfus	15.35	kJ/mol	Joback Method
hvap	44.02	kJ/mol	Joback Method
log10ws	-0.55		Crippen Method
logp	0.344		Crippen Method
mcvol	117.120	ml/mol	McGowan Method
pc	3217.33	kPa	Joback Method
tb	436.00	K	NIST Webbook
tb	436.20	K	NIST Webbook
tc	636.84	K	Joback Method
tf	270.10	K	Joback Method
vc	0.430	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.16	J/mol×K	453.61	Joback Method
cpg	268.47	J/mol×K	484.15	Joback Method
cpg	279.43	J/mol×K	514.69	Joback Method
cpg	290.05	J/mol×K	545.22	Joback Method
cpg	300.31	J/mol×K	575.76	Joback Method
cpg	310.20	J/mol×K	606.30	Joback Method
cpg	319.73	J/mol×K	636.84	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C645363&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume