Ethanamine, 2,2-diethoxy-N,N-dimethyl-

Other names: (2,2-diethoxyethyl)dimethylamine
Inchi: InChI=1S/C8H19NO2/c1-5-10-8(11-6-2)7-9(3)4/h8H,5-7H2,1-4H3
InchiKey: SSFAUOAQOOISRQ-UHFFFAOYSA-N
Formula: C8H19NO2
SMILES: CCOC(CN(C)C)OCC
Mol. weight [g/mol]: 161.24
CAS: 3616-56-6

Physical Properties

Property code	Value	Unit	Source
gf	-85.18	kJ/mol	Joback Method
hf	-410.64	kJ/mol	Joback Method
hfus	18.35	kJ/mol	Joback Method
hvap	39.88	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	0.947		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
pc	2465.36	kPa	Joback Method
tb	443.70	K	NIST Webbook
tc	605.65	K	Joback Method
tf	241.85	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.36	J/mol×K	439.28	Joback Method
cpg	327.16	J/mol×K	467.01	Joback Method
cpg	340.51	J/mol×K	494.74	Joback Method
cpg	353.42	J/mol×K	522.47	Joback Method
cpg	365.89	J/mol×K	550.20	Joback Method
cpg	377.92	J/mol×K	577.92	Joback Method
cpg	389.51	J/mol×K	605.65	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3616566&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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