Bis(2-(Dimethylamino)ethyl) ether

Other names: Ethanamine, 2,2'-oxybis[N,N-dimethyl-
Ethylamine, 2,2'-oxybis[N,N-dimethyl-
A 99
A 99 (Amine)
Kalpur PC
Niax A 1
Niax A 4
2,2'-Oxybis[N,N-dimethylethylamine]
Niax catalyst al
1,5-Bis(dimethylamino)-3-oxapentane
Dabco BL 11
Dabco BL 19
Dabco BL 19I
N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)
Niax A 99
NSC 109887
Texacat ZF 20
Toyocat ET
Toyocat ETS

Inchi: InChI=1S/C8H20N2O/c1-9(2)5-7-11-8-6-10(3)4/h5-8H2,1-4H3

InchiKey: GTEXIOINCJRBIO-UHFFFAOYSA-N

Formula: C8H20N2O

SMILES: CN(C)CCOCCN(C)C

Mol. weight [g/mol]: 160.26

CAS: 3033-62-3

Physical Properties

Property code	Value	Unit	Source
gf	133.04	kJ/mol	Joback Method
hf	-205.61	kJ/mol	Joback Method
hfus	23.71	kJ/mol	Joback Method
hvap	39.90	kJ/mol	Joback Method
log10ws	0.60		Crippen Method
logp	0.126		Crippen Method
mcvol	149.410	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
tb	429.74	K	Joback Method

tc	591.22	K	Joback Method
tf	267.09	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	318.52	J/mol×K	429.74	Joback Method
cpg	333.16	J/mol×K	456.65	Joback Method
cpg	347.24	J/mol×K	483.57	Joback Method
cpg	360.78	J/mol×K	510.48	Joback Method
cpg	373.79	J/mol×K	537.40	Joback Method
cpg	386.28	J/mol×K	564.31	Joback Method
cpg	398.27	J/mol×K	591.22	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	353.00	K	2.00	NIST Webbook

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=C3033623&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume