Diethylamine, 2,2'-bis(2-methoxyethoxy)-

Other names: bis[2-(2-methoxyethoxy)ethyl]amine
Inchi: InChI=1S/C10H23NO4/c1-12-7-9-14-5-3-11-4-6-15-10-8-13-2/h11H,3-10H2,1-2H3
InchiKey: FFCWGAORQXNZCL-UHFFFAOYSA-N
Formula: C10H23NO4
SMILES: COCCOCCNCCOCCOC
Mol. weight [g/mol]: 221.29
CAS: 5732-47-8

Physical Properties

Property code	Value	Unit	Source
gf	-297.29	kJ/mol	Joback Method
hf	-725.14	kJ/mol	Joback Method
hfus	31.51	kJ/mol	Joback Method
hvap	53.93	kJ/mol	Joback Method
log10ws	0.45		Crippen Method
logp	-0.098		Crippen Method
mcvol	185.220	ml/mol	McGowan Method
pc	2005.50	kPa	Joback Method
tb	568.05	K	Joback Method
tc	733.72	K	Joback Method
tf	344.04	K	Joback Method
vc	0.703	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.33	J/mol×K	568.05	Joback Method
cpg	491.95	J/mol×K	595.66	Joback Method
cpg	506.11	J/mol×K	623.27	Joback Method
cpg	519.79	J/mol×K	650.89	Joback Method
cpg	532.97	J/mol×K	678.50	Joback Method
cpg	545.66	J/mol×K	706.11	Joback Method
cpg	557.82	J/mol×K	733.72	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5732478&Units=SI

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