2-{2-[2-(2-Diethylamino-ethoxy)-eth oxy]-ethoxy}-ethanol

Inchi: InChI=1S/C12H27NO4/c1-3-13(4-2)5-7-15-9-11-17-12-10-16-8-6-14/h14H,3-12H2,1-2H3

InchiKey: DDRASPJCQLYQBM-UHFFFAOYSA-N

Formula: C12H27NO4

SMILES: CCN(CC)CCOCCOCCOCCO

Mol. weight [g/mol]: 249.35

Physical Properties

Property code	Value	Unit	Source
gf	-290.88	kJ/mol	Joback Method
hf	-772.37	kJ/mol	Joback Method
hfus	37.51	kJ/mol	Joback Method
hvap	68.26	kJ/mol	Joback Method
log10ws	0.06		Crippen Method
logp	0.370		Crippen Method
mcvol	213.400	ml/mol	McGowan Method
pc	1840.41	kPa	Joback Method
rinpol	1720.00		NIST Webbook
rinpol	1720.00		NIST Webbook
tb	645.84	K	Joback Method
tc	805.83	K	Joback Method
tf	384.98	K	Joback Method
vc	0.798	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.11	J/mol×K	645.84	Joback Method
cpg	616.84	J/mol×K	672.51	Joback Method
cpg	630.98	J/mol×K	699.17	Joback Method
cpg	644.54	J/mol×K	725.84	Joback Method
cpg	657.52	J/mol×K	752.50	Joback Method
cpg	669.92	J/mol×K	779.17	Joback Method
cpg	681.74	J/mol×K	805.83	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R180593&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume