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

Inchi: InChI=1S/C14H31NO5/c1-3-15(4-2)5-7-17-9-11-19-13-14-20-12-10-18-8-6-16/h16H,3-14

InchiKey: XVVBORLAIJUXCM-UHFFFAOYSA-N

Formula: C14H31NO5

SMILES: CCN(CC)CCOCCOCCOCCOCCO

Mol. weight [g/mol]: 293.40

Physical Properties

Property code	Value	Unit	Source
gf	-379.04	kJ/mol	Joback Method
hf	-945.87	kJ/mol	Joback Method
hfus	43.88	kJ/mol	Joback Method
hvap	75.12	kJ/mol	Joback Method
log10ws	0.13		Crippen Method
logp	0.387		Crippen Method
mcvol	247.450	ml/mol	McGowan Method
pc	1550.00	kPa	Joback Method
rinpol	2011.00		NIST Webbook
rinpol	2011.00		NIST Webbook
tb	714.02	K	Joback Method
tc	879.33	K	Joback Method
tf	429.75	K	Joback Method
vc	0.928	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.66	J/mol×K	714.02	Joback Method
cpg	758.55	J/mol×K	741.57	Joback Method
cpg	773.72	J/mol×K	769.12	Joback Method
cpg	788.17	J/mol×K	796.68	Joback Method
cpg	801.89	J/mol×K	824.23	Joback Method
cpg	814.90	J/mol×K	851.78	Joback Method
cpg	827.17	J/mol×K	879.33	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=R180588&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume