2-(2-(2-(2-Isobutoxy-ethoxy)-ethoxy)-ethoxy)-etho

Inchi: InChI=1S/C14H30O6/c1-14(2)13-20-12-11-19-10-9-18-8-7-17-6-5-16-4-3-15/h14-15H,3-1
InchiKey: QTTFKAZBPNVZRR-UHFFFAOYSA-N
Formula: C14H30O6
SMILES: CC(C)COCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 294.38

Physical Properties

Property code	Value	Unit	Source
gf	-597.26	kJ/mol	Joback Method
hf	-1150.90	kJ/mol	Joback Method
hfus	38.52	kJ/mol	Joback Method
hvap	75.10	kJ/mol	Joback Method
log10ws	-0.14		Crippen Method
logp	0.718		Crippen Method
mcvol	243.340	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpol	2092.00		NIST Webbook
rinpol	2092.00		NIST Webbook
tb	723.56	K	Joback Method
tc	891.48	K	Joback Method
tf	404.51	K	Joback Method
vc	0.922	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	731.91	J/mol×K	723.56	Joback Method
cpg	747.59	J/mol×K	751.55	Joback Method
cpg	762.54	J/mol×K	779.53	Joback Method
cpg	776.75	J/mol×K	807.52	Joback Method
cpg	790.21	J/mol×K	835.51	Joback Method
cpg	802.90	J/mol×K	863.50	Joback Method
cpg	814.81	J/mol×K	891.48	Joback Method
dvisc	0.0008552	Pa×s	404.51	Joback Method

dvisc	0.0002714	Pa×s	457.69	Joback Method
dvisc	0.0001094	Pa×s	510.86	Joback Method
dvisc	0.0000523	Pa×s	564.03	Joback Method
dvisc	0.0000284	Pa×s	617.21	Joback Method
dvisc	0.0000170	Pa×s	670.38	Joback Method
dvisc	0.0000110	Pa×s	723.56	Joback Method

Sources

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=R188260&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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