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

Inchi: InChI=1S/C18H38O8/c1-18(2)17-26-16-15-25-14-13-24-12-11-23-10-9-22-8-7-21-6-5-20
InchiKey: ZDHAGRZHPMLDGF-UHFFFAOYSA-N
Formula: C18H38O8
SMILES: CC(C)COCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 382.49

Physical Properties

Property code	Value	Unit	Source
gf	-773.58	kJ/mol	Joback Method
hf	-1497.90	kJ/mol	Joback Method
hfus	51.26	kJ/mol	Joback Method
hvap	88.82	kJ/mol	Joback Method
log10ws	9.83e-03		Crippen Method
logp	0.751		Crippen Method
mcvol	311.440	ml/mol	McGowan Method
pc	1137.50	kPa	Joback Method
rinpol	2660.00		NIST Webbook
tb	859.92	K	Joback Method
tc	1054.58	K	Joback Method
tf	494.05	K	Joback Method
vc	1.183	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1030.59	J/mol×K	859.92	Joback Method
cpg	1048.28	J/mol×K	892.36	Joback Method
cpg	1064.56	J/mol×K	924.81	Joback Method
cpg	1079.40	J/mol×K	957.25	Joback Method
cpg	1092.75	J/mol×K	989.69	Joback Method
cpg	1104.58	J/mol×K	1022.14	Joback Method
cpg	1114.87	J/mol×K	1054.58	Joback Method
dvisc	0.0001358	Pa×s	494.05	Joback Method
dvisc	0.0000486	Pa×s	555.03	Joback Method

dvisc	0.0000213	Pa×s	616.01	Joback Method
dvisc	0.0000109	Pa×s	676.98	Joback Method
dvisc	0.0000062	Pa×s	737.96	Joback Method
dvisc	0.0000038	Pa×s	798.94	Joback Method
dvisc	0.0000025	Pa×s	859.92	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=R187945&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

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