2-(2-(2-(2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethanol

Inchi: InChI=1S/C19H40O8/c1-19(2)3-5-21-7-9-23-11-13-25-15-17-27-18-16-26-14-12-24-10-8
InchiKey: GCFIOSKRNYFXIU-UHFFFAOYSA-N
Formula: C19H40O8
SMILES: CC(C)CCOCCOCCOCCOCCOCCOCCOCCO
Mol. weight [g/mol]: 396.52

Physical Properties

Property code	Value	Unit	Source
gf	-765.16	kJ/mol	Joback Method
hf	-1518.54	kJ/mol	Joback Method
hfus	53.85	kJ/mol	Joback Method
hvap	91.05	kJ/mol	Joback Method
log10ws	-0.41		Crippen Method
logp	1.141		Crippen Method
mcvol	325.530	ml/mol	McGowan Method
pc	1067.27	kPa	Joback Method
rinpol	2757.10		NIST Webbook
tb	882.80	K	Joback Method
tc	1084.99	K	Joback Method
tf	505.32	K	Joback Method
vc	1.238	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1091.96	J/mol×K	882.80	Joback Method
cpg	1110.16	J/mol×K	916.50	Joback Method
cpg	1126.75	J/mol×K	950.20	Joback Method
cpg	1141.71	J/mol×K	983.90	Joback Method
cpg	1154.99	J/mol×K	1017.59	Joback Method
cpg	1166.56	J/mol×K	1051.29	Joback Method
cpg	1176.39	J/mol×K	1084.99	Joback Method
dvisc	0.0001129	Pa×s	505.32	Joback Method
dvisc	0.0000402	Pa×s	568.23	Joback Method

dvisc	0.0000176	Pa×s	631.15	Joback Method
dvisc	0.0000089	Pa×s	694.06	Joback Method
dvisc	0.0000051	Pa×s	756.97	Joback Method
dvisc	0.0000032	Pa×s	819.89	Joback Method
dvisc	0.0000021	Pa×s	882.80	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=R187985&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