2-(2-(2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-e acetate

Inchi: InChI=1S/C19H38O8/c1-18(2)4-5-21-6-7-22-8-9-23-10-11-24-12-13-25-14-15-26-16-17-2
InchiKey: CPWGIFFQMSJIMU-UHFFFAOYSA-N
Formula: C19H38O8
SMILES: CC(=O)OCCOCCOCCOCCOCCOCCOCCC(C)C
Mol. weight [g/mol]: 394.50

Physical Properties

Property code	Value	Unit	Source
gf	-757.26	kJ/mol	Joback Method
hf	-1478.89	kJ/mol	Joback Method
hfus	51.36	kJ/mol	Joback Method
hvap	81.12	kJ/mol	Joback Method
log10ws	-0.92		Crippen Method
logp	1.695		Crippen Method
mcvol	321.230	ml/mol	McGowan Method
pc	1047.33	kPa	Joback Method
rinpol	2592.80		NIST Webbook
rinpol	2592.80		NIST Webbook
tb	844.49	K	Joback Method
tc	1033.91	K	Joback Method
tf	494.43	K	Joback Method
vc	1.226	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1042.78	J/mol×K	844.49	Joback Method
cpg	1060.92	J/mol×K	876.06	Joback Method
cpg	1077.70	J/mol×K	907.63	Joback Method
cpg	1093.07	J/mol×K	939.20	Joback Method
cpg	1107.01	J/mol×K	970.77	Joback Method
cpg	1119.49	J/mol×K	1002.34	Joback Method
cpg	1130.46	J/mol×K	1033.91	Joback Method
dvisc	0.0002069	Pa×s	494.43	Joback Method

dvisc	0.0001037	Pa×s	552.77	Joback Method
dvisc	0.0000593	Pa×s	611.12	Joback Method
dvisc	0.0000373	Pa×s	669.46	Joback Method
dvisc	0.0000253	Pa×s	727.80	Joback Method
dvisc	0.0000182	Pa×s	786.15	Joback Method
dvisc	0.0000137	Pa×s	844.49	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=R188151&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