2-(2-(2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-e trifluoroacetate

InchI: InChI=1S/C19H35F3O8/c1-17(2)3-4-24-5-6-25-7-8-26-9-10-27-11-12-28-13-14-29-15-16

InchiKey: CCIXCRATCVIVJP-UHFFFAOYSA-N

Formula: C19H35F3O8

SMILES: CC(C)CCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F

Mol. weight [g/mol]: 448.47

Physical Properties

Property code	Value	Unit	Source
gf	-1338.85	kJ/mol	Joback Method
hf	-2075.97	kJ/mol	Joback Method
hfus	53.18	kJ/mol	Joback Method
hvap	77.37	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	2.238		Crippen Method
mcvol	326.540	ml/mol	McGowan Method
pc	972.91	kPa	Joback Method
rinpol	2330.60		NIST Webbook
rinpol	2330.60		NIST Webbook
tb	839.07	K	Joback Method
tc	1027.88	K	Joback Method
tf	498.62	K	Joback Method
vc	1.268	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1065.37	J/mol×K	839.07	Joback Method
cpg	1082.99	J/mol×K	870.54	Joback Method
cpg	1099.28	J/mol×K	902.01	Joback Method
cpg	1114.22	J/mol×K	933.48	Joback Method
cpg	1127.80	J/mol×K	964.95	Joback Method
cpg	1139.99	J/mol×K	996.41	Joback Method
cpg	1150.79	J/mol×K	1027.88	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=R188171&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
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