2-(2-(2-(2-(2-Pentoxy-ethoxy)-ethoxy)-ethoxy)-etho trifluoroacetate

InchI: InChI=1S/C19H35F3O8/c1-2-3-4-5-24-6-7-25-8-9-26-10-11-27-12-13-28-14-15-29-16-17
InchiKey: OVVKCIIGIGGYDY-UHFFFAOYSA-N
Formula: C19H35F3O8
SMILES: CCCCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F
Mol. weight [g/mol]: 448.47

Physical Properties

Property code	Value	Unit	Source
gf	-1336.41	kJ/mol	Joback Method
hf	-2070.69	kJ/mol	Joback Method
hfus	56.71	kJ/mol	Joback Method
hvap	77.76	kJ/mol	Joback Method
log10ws	-1.82		Crippen Method
logp	2.382		Crippen Method
mcvol	326.540	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	2366.10		NIST Webbook
rinpol	2366.10		NIST Webbook
tb	839.51	K	Joback Method
tc	1028.90	K	Joback Method
tf	513.62	K	Joback Method
vc	1.274	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1064.89	J/mol×K	839.51	Joback Method
cpg	1082.57	J/mol×K	871.07	Joback Method
cpg	1098.91	J/mol×K	902.64	Joback Method
cpg	1113.90	J/mol×K	934.20	Joback Method
cpg	1127.54	J/mol×K	965.77	Joback Method
cpg	1139.79	J/mol×K	997.33	Joback Method
cpg	1150.64	J/mol×K	1028.90	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=R188215&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