2-(2-(2-(2-(2-(2-Butoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-et
trifluoroacetate

InchI: InChI=1S/C20H37F3O9/c1-2-3-4-25-5-6-26-7-8-27-9-10-28-11-12-29-13-14-30-15-16-31

InchiKey: GDFIPMSUGOQFIE-UHFFFAOYSA-N

Formula: C20H37F3O9

SMILES: CCCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F

Mol. weight [g/mol]: 478.50

Physical Properties

Property code	Value	Unit	Source
gf	-1432.99	kJ/mol	Joback Method
hf	-2223.55	kJ/mol	Joback Method
hfus	60.48	kJ/mol	Joback Method
hvap	82.39	kJ/mol	Joback Method
log10ws	-1.33		Crippen Method
logp	2.008		Crippen Method
mcvol	346.500	ml/mol	McGowan Method
pc	903.43	kPa	Joback Method
rinpol	2533.80		NIST Webbook
rinpol	2533.80		NIST Webbook
tb	884.81	K	Joback Method
tc	1088.94	K	Joback Method
tf	547.12	K	Joback Method
vc	1.349	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1157.16	J/mol×K	884.81	Joback Method
cpg	1175.09	J/mol×K	918.83	Joback Method
cpg	1191.29	J/mol×K	952.85	Joback Method
cpg	1205.74	J/mol×K	986.88	Joback Method
cpg	1218.42	J/mol×K	1020.90	Joback Method
cpg	1229.28	J/mol×K	1054.92	Joback Method
cpg	1238.30	J/mol×K	1088.94	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R187925&Units=SI

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