2-[2-[2-[2-[2-[2-(2,2,2-Trifluoroacetyl)oxyethoxy]et
2,2,2-trifluoroacetate

Othernames: Hexaethylene glycol, bis(trifluoroacetate)
20,20,20-Trifluoro-19-oxo-3,6,9,12,15,18-hexaoxanonadec-1-yl trifluoroacetate
Inchi: InChI=1S/C16H24F6O9/c17-15(18,19)13(23)30-11-9-28-7-5-26-3-1-25-2-4-27-6-8-29-10
InchiKey: UUDKMFYUYZWJOD-UHFFFAOYSA-N
Formula: C16H24F6O9
SMILES: O=C(OCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]: 474.35

Physical Properties

Property code	Value	Unit	Source
gf	-2072.18	kJ/mol	Joback Method
hf	-2718.43	kJ/mol	Joback Method
hfus	52.36	kJ/mol	Joback Method
hvap	74.08	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	1.280		Crippen Method
mcvol	291.150	ml/mol	McGowan Method
pc	1126.83	kPa	Joback Method
rinpol	1941.70		NIST Webbook
rinpol	1941.70		NIST Webbook
tb	819.32	K	Joback Method
tc	1003.47	K	Joback Method
tf	533.93	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	930.32	J/mol×K	819.32	Joback Method
cpg	944.50	J/mol×K	850.01	Joback Method
cpg	957.57	J/mol×K	880.70	Joback Method
cpg	969.52	J/mol×K	911.40	Joback Method
cpg	980.35	J/mol×K	942.09	Joback Method
cpg	990.04	J/mol×K	972.78	Joback Method

cpg	998.59	J/mol×K	1003.47	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=U351945&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