2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2,2,2-Trifluoroacetyl)o
2,2,2-trifluoroacetate

Other names: Undecaethylene glycol, bis(trifluoroacetate)

Inchi: InChI=1S/C26H44F6O14/c27-25(28,29)23(33)45-21-19-43-17-15-41-13-11-39-9-7-37-5-3 35,35,35-Trifluoro-34-oxo-3,6,9,12,15,18,21,24,27,30,33-undecaoxapentatriacont-1-yl trifluoroacetate

InchiKey: WHGAQEXUDTXJOV-UHFFFAOYSA-N

Formula: C26H44F6O14

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

Mol. weight [g/mol]: 694.61

Physical Properties

Property code	Value	Unit	Source
gf	-2512.98	kJ/mol	Joback Method
hf	-3585.93	kJ/mol	Joback Method
hfus	84.20	kJ/mol	Joback Method
hvap	108.39	kJ/mol	Joback Method
log10ws	-0.63		Crippen Method
logp	1.363		Crippen Method
mcvol	461.400	ml/mol	McGowan Method
pc	617.57	kPa	Joback Method
rinpol	3174.30		NIST Webbook
tb	1160.22	K	Joback Method
tc	1584.60	K	Joback Method
tf	757.78	K	Joback Method
vc	1.806	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1650.90	J/mol×K	1160.22	Joback Method
cpg	1652.02	J/mol×K	1230.95	Joback Method
cpg	1641.13	J/mol×K	1301.68	Joback Method
cpg	1617.78	J/mol×K	1372.41	Joback Method
cpg	1581.55	J/mol×K	1443.14	Joback Method
cpg	1532.02	J/mol×K	1513.87	Joback Method
cpg	1468.76	J/mol×K	1584.60	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=U351948&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