Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl geranyl ester

Inchi: InChI=1S/C19H24F8O4/c1-12(2)5-4-6-13(3)9-10-30-14(28)7-8-15(29)31-11-17(22,23)19

InchiKey: CPXDHJXBIGOBPU-UKTHLTGXSA-N

Formula: C19H24F8O4

SMILES: CC(C)=CCCC(C)=CCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F

Mol. weight [g/mol]: 468.38

Physical Properties

Property code	Value	Unit	Source
gf	-1767.80	kJ/mol	Joback Method
hf	-2310.64	kJ/mol	Joback Method
hfus	47.20	kJ/mol	Joback Method
hvap	65.46	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.717		Crippen Method
mcvol	299.010	ml/mol	McGowan Method
pc	1020.08	kPa	Joback Method
rinpol	1995.00		NIST Webbook
rinpol	1995.00		NIST Webbook
tb	778.81	K	Joback Method
tc	955.62	K	Joback Method
tf	407.11	K	Joback Method
vc	1.214	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	923.73	J/mol×K	778.81	Joback Method
cpg	938.18	J/mol×K	808.28	Joback Method
cpg	951.77	J/mol×K	837.75	Joback Method
cpg	964.58	J/mol×K	867.21	Joback Method
cpg	976.67	J/mol×K	896.68	Joback Method
cpg	988.12	J/mol×K	926.15	Joback Method
cpg	998.98	J/mol×K	955.62	Joback Method

Sources

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=U391209&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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