Succinic acid, 2,2,3,3-tetrafluoropropyl but-3-en-1-yl ester

Inchi: InChI=1S/C11H14F4O4/c1-2-3-6-18-8(16)4-5-9(17)19-7-11(14,15)10(12)13/h2,10H,1,3-7

InchiKey: ZKBMYNHLTLAITG-UHFFFAOYSA-N

Formula: C11H14F4O4

SMILES: C=CCCOC(=O)CCC(=O)OCC(F)(F)C(F)F

Mol. weight [g/mol]: 286.22

Physical Properties

Property code	Value	Unit	Source
gf	-1117.10	kJ/mol	Joback Method
hf	-1433.01	kJ/mol	Joback Method
hfus	29.92	kJ/mol	Joback Method
hvap	52.77	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.329		Crippen Method
mcvol	183.510	ml/mol	McGowan Method
pc	1901.92	kPa	Joback Method
rinpol	1371.00		NIST Webbook
rinpol	1371.00		NIST Webbook
tb	593.75	K	Joback Method
tc	759.32	K	Joback Method
tf	346.07	K	Joback Method
vc	0.736	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	480.19	J/mol×K	593.75	Joback Method
cpg	492.23	J/mol×K	621.35	Joback Method
cpg	503.69	J/mol×K	648.94	Joback Method
cpg	514.57	J/mol×K	676.54	Joback Method
cpg	524.89	J/mol×K	704.13	Joback Method
cpg	534.65	J/mol×K	731.73	Joback Method
cpg	543.89	J/mol×K	759.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391184&Units=SI
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

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