Succinic acid, di(2-fluoroethyl) ester

Inchi: InChI=1S/C8H12F2O4/c9-3-5-13-7(11)1-2-8(12)14-6-4-10/h1-6H2
InchiKey: YTFKYOZMSRGFDN-UHFFFAOYSA-N
Formula: C8H12F2O4
SMILES: O=C(CCC(=O)OCCF)OCCF
Mol. weight [g/mol]: 210.18

Physical Properties

Property code	Value	Unit	Source
gf	-840.98	kJ/mol	Joback Method
hf	-1090.27	kJ/mol	Joback Method
hfus	28.21	kJ/mol	Joback Method
hvap	50.08	kJ/mol	Joback Method
log10ws	-0.60		Crippen Method
logp	0.792		Crippen Method
mcvol	142.000	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	1371.00		NIST Webbook
rinpol	1371.00		NIST Webbook
tb	533.56	K	Joback Method
tc	701.60	K	Joback Method
tf	325.42	K	Joback Method
vc	0.568	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.78	J/mol×K	533.56	Joback Method
cpg	349.23	J/mol×K	561.57	Joback Method
cpg	359.32	J/mol×K	589.57	Joback Method
cpg	369.02	J/mol×K	617.58	Joback Method
cpg	378.33	J/mol×K	645.58	Joback Method
cpg	387.26	J/mol×K	673.59	Joback Method
cpg	395.80	J/mol×K	701.60	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=U390886&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