Succinic acid, 2,2,3,3-tetrafluoropropyl 2,2-dichloroethyl ester

Inchi: InChI=1S/C9H10Cl2F4O4/c10-5(11)3-18-6(16)1-2-7(17)19-4-9(14,15)8(12)13/h5,8H,1-4H

InchiKey: XUJITLGSPQOHOQ-UHFFFAOYSA-N

Formula: C9H10Cl2F4O4

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

Mol. weight [g/mol]: 329.07

Physical Properties

Property code	Value	Unit	Source
gf	-1248.08	kJ/mol	Joback Method
hf	-1553.92	kJ/mol	Joback Method
hfus	30.89	kJ/mol	Joback Method
hvap	57.37	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.557		Crippen Method
mcvol	184.110	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
rinpol	1532.00		NIST Webbook
rinpol	1532.00		NIST Webbook
tb	625.73	K	Joback Method
tc	802.44	K	Joback Method
tf	370.13	K	Joback Method
vc	0.735	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.36	J/mol×K	625.73	Joback Method
cpg	467.48	J/mol×K	655.18	Joback Method
cpg	477.03	J/mol×K	684.63	Joback Method
cpg	486.00	J/mol×K	714.08	Joback Method
cpg	494.42	J/mol×K	743.53	Joback Method
cpg	502.29	J/mol×K	772.98	Joback Method
cpg	509.64	J/mol×K	802.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390514&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

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