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

Inchi: InChI=1S/C15H11ClF8O4/c16-8-2-1-3-9(6-8)28-11(26)5-4-10(25)27-7-13(19,20)15(23,24
InchiKey: DDNKKUKGBCGKPU-UHFFFAOYSA-N
Formula: C15H11ClF8O4
SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]: 442.69

Physical Properties

Property code	Value	Unit	Source
gf	-1853.97	kJ/mol	Joback Method
hf	-2233.62	kJ/mol	Joback Method
hfus	36.90	kJ/mol	Joback Method
hvap	63.81	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	4.740		Crippen Method
mcvol	239.730	ml/mol	McGowan Method
pc	1499.99	kPa	Joback Method
rinpol	1926.00		NIST Webbook
rinpol	1926.00		NIST Webbook
tb	748.30	K	Joback Method
tc	932.29	K	Joback Method
tf	468.97	K	Joback Method
vc	0.970	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	689.56	J/mol×K	748.30	Joback Method
cpg	700.33	J/mol×K	778.97	Joback Method
cpg	710.25	J/mol×K	809.63	Joback Method
cpg	719.40	J/mol×K	840.30	Joback Method
cpg	727.81	J/mol×K	870.96	Joback Method
cpg	735.55	J/mol×K	901.63	Joback Method
cpg	742.67	J/mol×K	932.29	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=U389847&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