Succinic acid, 8-chlorooctyl 2,4,5-trichlorophenyl ester

Inchi: InChI=1S/C18H22Cl4O4/c19-9-5-3-1-2-4-6-10-25-17(23)7-8-18(24)26-16-12-14(21)13(20
InchiKey: GZCDARYEONVSMK-UHFFFAOYSA-N
Formula: C18H22Cl4O4
SMILES: O=C(CCC(=O)Oc1cc(Cl)c(Cl)cc1Cl)OCCCCCCCCCCl
Mol. weight [g/mol]: 444.18

Physical Properties

Property code	Value	Unit	Source
gf	-331.36	kJ/mol	Joback Method
hf	-765.29	kJ/mol	Joback Method
hfus	57.61	kJ/mol	Joback Method
hvap	95.78	kJ/mol	Joback Method
log10ws	-7.04		Crippen Method
logp	6.455		Crippen Method
mcvol	304.560	ml/mol	McGowan Method
pc	1355.63	kPa	Joback Method
rinpol	3031.00		NIST Webbook
rinpol	3031.00		NIST Webbook
tb	955.16	K	Joback Method
tc	1176.10	K	Joback Method
tf	620.60	K	Joback Method
vc	1.179	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	855.38	J/mol×K	955.16	Joback Method
cpg	898.35	J/mol×K	1139.28	Joback Method
cpg	891.97	J/mol×K	1102.45	Joback Method
cpg	884.51	J/mol×K	1065.63	Joback Method
cpg	875.93	J/mol×K	1028.81	Joback Method
cpg	866.23	J/mol×K	991.98	Joback Method
cpg	903.65	J/mol×K	1176.10	Joback Method
dvisc	0.0000404	Pa×s	955.16	Joback Method

dvisc	0.0000500	Pa×s	899.40	Joback Method
dvisc	0.0000638	Pa×s	843.64	Joback Method
dvisc	0.0000842	Pa×s	787.88	Joback Method
dvisc	0.0001159	Pa×s	732.12	Joback Method
dvisc	0.0001682	Pa×s	676.36	Joback Method
dvisc	0.0002609	Pa×s	620.60	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389975&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
dvisc:	Dynamic viscosity
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