Succinic acid, 2,3-dichlorophenyl 8-chlorooctyl ester

Inchi: InChI=1S/C18H23Cl3O4/c19-12-5-3-1-2-4-6-13-24-16(22)10-11-17(23)25-15-9-7-8-14(20
InchiKey: VOEHOYGDWGCFHB-UHFFFAOYSA-N
Formula: C18H23Cl3O4
SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1Cl)OCCCCCCCCCCl
Mol. weight [g/mol]: 409.73

Physical Properties

Property code	Value	Unit	Source
gf	-309.80	kJ/mol	Joback Method
hf	-738.08	kJ/mol	Joback Method
hfus	53.80	kJ/mol	Joback Method
hvap	90.73	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	5.802		Crippen Method
mcvol	292.320	ml/mol	McGowan Method
pc	1409.07	kPa	Joback Method
rinpol	2996.00		NIST Webbook
rinpol	2996.00		NIST Webbook
tb	912.75	K	Joback Method
tc	1127.41	K	Joback Method
tf	578.16	K	Joback Method
vc	1.131	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.59	J/mol×K	912.75	Joback Method
cpg	847.71	J/mol×K	948.53	Joback Method
cpg	858.72	J/mol×K	984.30	Joback Method
cpg	868.65	J/mol×K	1020.08	Joback Method
cpg	877.51	J/mol×K	1055.86	Joback Method
cpg	885.34	J/mol×K	1091.63	Joback Method
cpg	892.14	J/mol×K	1127.41	Joback Method
dvisc	0.0003531	Pa×s	578.16	Joback Method

dvisc	0.0002175	Pa×s	633.93	Joback Method
dvisc	0.0001448	Pa×s	689.69	Joback Method
dvisc	0.0001025	Pa×s	745.46	Joback Method
dvisc	0.0000761	Pa×s	801.22	Joback Method
dvisc	0.0000588	Pa×s	856.99	Joback Method
dvisc	0.0000468	Pa×s	912.75	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=U390497&Units=SI

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