Succinic acid, 8-chlorooctyl 3-chlorophenyl ester

Inchi: InChI=1S/C18H24Cl2O4/c19-12-5-3-1-2-4-6-13-23-17(21)10-11-18(22)24-16-9-7-8-15(20

InchiKey: WNNOGDRKBIURJV-UHFFFAOYSA-N

Formula: C18H24Cl2O4

SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1)OCCCCCCCCCCl

Mol. weight [g/mol]: 375.29

Physical Properties

Property code	Value	Unit	Source
gf	-288.24	kJ/mol	Joback Method
hf	-710.87	kJ/mol	Joback Method
hfus	50.00	kJ/mol	Joback Method
hvap	85.68	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	5.148		Crippen Method
mcvol	280.080	ml/mol	McGowan Method
pc	1465.73	kPa	Joback Method
rinpol	2822.00		NIST Webbook
rinpol	2822.00		NIST Webbook
tb	870.34	K	Joback Method
tc	1079.15	K	Joback Method
tf	535.72	K	Joback Method
vc	1.081	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	813.59	J/mol×K	870.34	Joback Method
cpg	826.96	J/mol×K	905.14	Joback Method
cpg	839.25	J/mol×K	939.94	Joback Method
cpg	850.48	J/mol×K	974.75	Joback Method
cpg	860.68	J/mol×K	1009.55	Joback Method
cpg	869.87	J/mol×K	1044.35	Joback Method
cpg	878.07	J/mol×K	1079.15	Joback Method
dvisc	0.0004886	Pa×s	535.72	Joback Method

dvisc	0.0002848	Pa×s	591.49	Joback Method
dvisc	0.0001822	Pa×s	647.26	Joback Method
dvisc	0.0001251	Pa×s	703.03	Joback Method
dvisc	0.0000908	Pa×s	758.80	Joback Method
dvisc	0.0000689	Pa×s	814.57	Joback Method
dvisc	0.0000541	Pa×s	870.34	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=U389857&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