Succinic acid, 2-chlorophenyl 2,4-dichloro-6-formylphenyl ester

Inchi: InChI=1S/C17H11Cl3O5/c18-11-7-10(9-21)17(13(20)8-11)25-16(23)6-5-15(22)24-14-4-2

InchiKey: SZMJPFOXJBXXNA-UHFFFAOYSA-N

Formula: C17H11Cl3O5

SMILES: O=Cc1cc(Cl)cc(Cl)c1OC(=O)CCC(=O)Oc1ccccc1Cl

Mol. weight [g/mol]: 401.62

Physical Properties

Property code	Value	Unit	Source
gf	-324.59	kJ/mol	Joback Method
hf	-589.43	kJ/mol	Joback Method
hfus	46.77	kJ/mol	Joback Method
hvap	98.82	kJ/mol	Joback Method
log10ws	-6.04		Crippen Method
logp	4.750		Crippen Method
mcvol	256.040	ml/mol	McGowan Method
pc	2079.33	kPa	Joback Method
rinpol	2966.00		NIST Webbook
tb	975.17	K	Joback Method
tc	1219.38	K	Joback Method
tf	660.35	K	Joback Method
vc	0.984	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	673.23	J/mol×K	975.17	Joback Method
cpg	697.37	J/mol×K	1178.68	Joback Method
cpg	694.92	J/mol×K	1137.98	Joback Method
cpg	691.30	J/mol×K	1097.28	Joback Method
cpg	686.49	J/mol×K	1056.57	Joback Method
cpg	680.47	J/mol×K	1015.87	Joback Method
cpg	698.66	J/mol×K	1219.38	Joback Method
dvisc	0.0000629	Pa×s	975.17	Joback Method
dvisc	0.0000759	Pa×s	922.70	Joback Method

dvisc	0.0000937	Pa×s	870.23	Joback Method
dvisc	0.0001187	Pa×s	817.76	Joback Method
dvisc	0.0001555	Pa×s	765.29	Joback Method
dvisc	0.0002118	Pa×s	712.82	Joback Method
dvisc	0.0003032	Pa×s	660.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357556&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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