Succinic acid, 2,3-dichlorophenyl 1-phenylpropyl ester

Inchi: InChI=1S/C19H18Cl2O4/c1-2-15(13-7-4-3-5-8-13)24-17(22)11-12-18(23)25-16-10-6-9-14

InchiKey: SVFWHCSUURTOEV-UHFFFAOYSA-N

Formula: C19H18Cl2O4

SMILES: CCC(OC(=O)CCC(=O)Oc1cccc(Cl)c1Cl)c1ccccc1

Mol. weight [g/mol]: 381.25

Physical Properties

Property code	Value	Unit	Source
gf	-179.48	kJ/mol	Joback Method
hf	-511.73	kJ/mol	Joback Method
hfus	42.71	kJ/mol	Joback Method
hvap	90.46	kJ/mol	Joback Method
log10ws	-6.18		Crippen Method
logp	5.373		Crippen Method
mcvol	270.410	ml/mol	McGowan Method
pc	1759.49	kPa	Joback Method
rinpol	2677.00		NIST Webbook
rinpol	2677.00		NIST Webbook
tb	924.44	K	Joback Method
tc	1160.38	K	Joback Method
tf	570.93	K	Joback Method
vc	1.024	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.94	J/mol×K	924.44	Joback Method
cpg	779.26	J/mol×K	963.76	Joback Method
cpg	789.28	J/mol×K	1003.09	Joback Method
cpg	798.06	J/mol×K	1042.41	Joback Method
cpg	805.63	J/mol×K	1081.73	Joback Method
cpg	812.02	J/mol×K	1121.06	Joback Method
cpg	817.29	J/mol×K	1160.38	Joback Method
dvisc	0.0003766	Pa×s	570.93	Joback Method

dvisc	0.0002237	Pa×s	629.85	Joback Method
dvisc	0.0001452	Pa×s	688.77	Joback Method
dvisc	0.0001009	Pa×s	747.68	Joback Method
dvisc	0.0000740	Pa×s	806.60	Joback Method
dvisc	0.0000565	Pa×s	865.52	Joback Method
dvisc	0.0000447	Pa×s	924.44	Joback Method

Sources

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=U389934&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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