Succinic acid, phenethyl 2,3-dichlorophenyl ester

Inchi: InChI=1S/C18H16Cl2O4/c19-14-7-4-8-15(18(14)20)24-17(22)10-9-16(21)23-12-11-13-5-
InchiKey: QCUNFQOYLRCCIF-UHFFFAOYSA-N
Formula: C18H16Cl2O4
SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1Cl)OCCc1ccccc1
Mol. weight [g/mol]: 367.22

Physical Properties

Property code	Value	Unit	Source
gf	-185.46	kJ/mol	Joback Method
hf	-485.81	kJ/mol	Joback Method
hfus	43.65	kJ/mol	Joback Method
hvap	88.62	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.465		Crippen Method
mcvol	256.320	ml/mol	McGowan Method
pc	1896.95	kPa	Joback Method
rinpol	2829.00		NIST Webbook
rinpol	2829.00		NIST Webbook
tb	902.00	K	Joback Method
tc	1137.10	K	Joback Method
tf	574.66	K	Joback Method
vc	0.974	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.95	J/mol×K	902.00	Joback Method
cpg	722.05	J/mol×K	941.18	Joback Method
cpg	731.92	J/mol×K	980.37	Joback Method
cpg	740.60	J/mol×K	1019.55	Joback Method
cpg	748.13	J/mol×K	1058.74	Joback Method
cpg	754.54	J/mol×K	1097.92	Joback Method
cpg	759.86	J/mol×K	1137.10	Joback Method
dvisc	0.0003880	Pa×s	574.66	Joback Method

dvisc	0.0002449	Pa×s	629.22	Joback Method
dvisc	0.0001664	Pa×s	683.77	Joback Method
dvisc	0.0001197	Pa×s	738.33	Joback Method
dvisc	0.0000901	Pa×s	792.89	Joback Method
dvisc	0.0000703	Pa×s	847.44	Joback Method
dvisc	0.0000566	Pa×s	902.00	Joback Method

Sources

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=U358007&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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