Succinic acid, 2,3-dichlorophenyl 2-ethoxyethyl ester

Inchi: InChI=1S/C14H16Cl2O5/c1-2-19-8-9-20-12(17)6-7-13(18)21-11-5-3-4-10(15)14(11)16/h3
InchiKey: IDZKNLXCHJOVQP-UHFFFAOYSA-N
Formula: C14H16Cl2O5
SMILES: CCOCCOC(=O)CCC(=O)Oc1cccc(Cl)c1Cl
Mol. weight [g/mol]: 335.18

Physical Properties

Property code	Value	Unit	Source
gf	-436.55	kJ/mol	Joback Method
hf	-772.00	kJ/mol	Joback Method
hfus	40.43	kJ/mol	Joback Method
hvap	79.85	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.259		Crippen Method
mcvol	229.590	ml/mol	McGowan Method
pc	1957.87	kPa	Joback Method
rinpol	2320.00		NIST Webbook
rinpol	2320.00		NIST Webbook
tb	806.22	K	Joback Method
tc	1018.57	K	Joback Method
tf	525.39	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.67	J/mol×K	806.22	Joback Method
cpg	663.71	J/mol×K	983.17	Joback Method
cpg	655.89	J/mol×K	947.78	Joback Method
cpg	647.07	J/mol×K	912.39	Joback Method
cpg	637.25	J/mol×K	877.00	Joback Method
cpg	626.44	J/mol×K	841.61	Joback Method
cpg	670.52	J/mol×K	1018.57	Joback Method
dvisc	0.0000724	Pa×s	806.22	Joback Method

dvisc	0.0000895	Pa×s	759.41	Joback Method
dvisc	0.0001136	Pa×s	712.61	Joback Method
dvisc	0.0001491	Pa×s	665.81	Joback Method
dvisc	0.0002041	Pa×s	619.00	Joback Method
dvisc	0.0002939	Pa×s	572.19	Joback Method
dvisc	0.0004517	Pa×s	525.39	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=U390671&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