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

Inchi: InChI=1S/C13H14Cl2O5/c1-18-7-8-19-11(16)5-6-12(17)20-10-4-2-3-9(14)13(10)15/h2-4H

InchiKey: SGCCUAVPBCHPCA-UHFFFAOYSA-N

Formula: C13H14Cl2O5

SMILES: COCCOC(=O)CCC(=O)Oc1cccc(Cl)c1Cl

Mol. weight [g/mol]: 321.15

Physical Properties

Property code	Value	Unit	Source
gf	-444.97	kJ/mol	Joback Method
hf	-751.36	kJ/mol	Joback Method
hfus	37.84	kJ/mol	Joback Method
hvap	77.62	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	2.869		Crippen Method
mcvol	215.500	ml/mol	McGowan Method
pc	2135.43	kPa	Joback Method
rinpol	2259.00		NIST Webbook
rinpol	2259.00		NIST Webbook
tb	783.34	K	Joback Method
tc	997.68	K	Joback Method
tf	514.12	K	Joback Method
vc	0.820	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.69	J/mol×K	783.34	Joback Method
cpg	572.11	J/mol×K	819.06	Joback Method
cpg	582.60	J/mol×K	854.79	Joback Method
cpg	592.16	J/mol×K	890.51	Joback Method
cpg	600.77	J/mol×K	926.24	Joback Method
cpg	608.41	J/mol×K	961.96	Joback Method
cpg	615.09	J/mol×K	997.68	Joback Method
dvisc	0.0004934	Pa×s	514.12	Joback Method

dvisc	0.0003254	Pa×s	558.99	Joback Method
dvisc	0.0002283	Pa×s	603.86	Joback Method
dvisc	0.0001682	Pa×s	648.73	Joback Method
dvisc	0.0001289	Pa×s	693.60	Joback Method
dvisc	0.0001021	Pa×s	738.47	Joback Method
dvisc	0.0000830	Pa×s	783.34	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=U390747&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