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

Inchi: InChI=1S/C12H10Cl4O4/c13-7-2-1-3-8(12(7)16)20-11(18)5-4-10(17)19-6-9(14)15/h1-3,9

InchiKey: ZEUZOODZPNSYKF-UHFFFAOYSA-N

Formula: C12H10Cl4O4

SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1Cl)OCC(Cl)Cl

Mol. weight [g/mol]: 360.02

Physical Properties

Property code	Value	Unit	Source
gf	-374.69	kJ/mol	Joback Method
hf	-635.26	kJ/mol	Joback Method
hfus	38.94	kJ/mol	Joback Method
hvap	81.37	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.026		Crippen Method
mcvol	220.020	ml/mol	McGowan Method
pc	2231.30	kPa	Joback Method
rinpol	2443.00		NIST Webbook
rinpol	2443.00		NIST Webbook
tb	812.46	K	Joback Method
tc	1040.83	K	Joback Method
tf	525.46	K	Joback Method
vc	0.838	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.55	J/mol×K	812.46	Joback Method
cpg	534.82	J/mol×K	850.52	Joback Method
cpg	543.17	J/mol×K	888.58	Joback Method
cpg	550.63	J/mol×K	926.64	Joback Method
cpg	557.19	J/mol×K	964.70	Joback Method
cpg	562.85	J/mol×K	1002.76	Joback Method
cpg	567.64	J/mol×K	1040.83	Joback Method
dvisc	0.0005894	Pa×s	525.46	Joback Method

dvisc	0.0003760	Pa×s	573.29	Joback Method
dvisc	0.0002571	Pa×s	621.13	Joback Method
dvisc	0.0001856	Pa×s	668.96	Joback Method
dvisc	0.0001399	Pa×s	716.79	Joback Method
dvisc	0.0001093	Pa×s	764.63	Joback Method
dvisc	0.0000879	Pa×s	812.46	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390525&Units=SI

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