Succinic acid, di(2,2-dichloroethyl) ester

Inchi: InChI=1S/C8H10Cl4O4/c9-5(10)3-15-7(13)1-2-8(14)16-4-6(11)12/h5-6H,1-4H2
InchiKey: APJYUYGGYUZQET-UHFFFAOYSA-N
Formula: C8H10Cl4O4
SMILES: O=C(CCC(=O)OCC(Cl)Cl)OCC(Cl)Cl
Mol. weight [g/mol]: 311.98

Physical Properties

Property code	Value	Unit	Source
gf	-503.96	kJ/mol	Joback Method
hf	-771.57	kJ/mol	Joback Method
hfus	31.79	kJ/mol	Joback Method
hvap	68.48	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.460		Crippen Method
mcvol	187.420	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinpol	1886.00		NIST Webbook
tb	683.86	K	Joback Method
tc	891.26	K	Joback Method
tf	413.92	K	Joback Method
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.79	J/mol×K	683.86	Joback Method
cpg	459.43	J/mol×K	856.69	Joback Method
cpg	452.54	J/mol×K	822.12	Joback Method
cpg	445.04	J/mol×K	787.56	Joback Method
cpg	436.91	J/mol×K	752.99	Joback Method
cpg	428.15	J/mol×K	718.43	Joback Method
cpg	465.68	J/mol×K	891.26	Joback Method
dvisc	0.0001414	Pa×s	683.86	Joback Method
dvisc	0.0001841	Pa×s	638.87	Joback Method

dvisc	0.0002494	Pa×s	593.88	Joback Method
dvisc	0.0003552	Pa×s	548.89	Joback Method
dvisc	0.0005387	Pa×s	503.90	Joback Method
dvisc	0.0008867	Pa×s	458.91	Joback Method
dvisc	0.0016264	Pa×s	413.92	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=U349420&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