Succinic acid, 2,2-dichloroethyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C11H16Cl2O5/c12-9(13)7-18-11(15)4-3-10(14)17-6-8-2-1-5-16-8/h8-9H,1-7H2
InchiKey: OGHLWWUVYCQWQU-UHFFFAOYSA-N
Formula: C11H16Cl2O5
SMILES: O=C(CCC(=O)OCC1CCCO1)OCC(Cl)Cl
Mol. weight [g/mol]: 299.15

Physical Properties

Property code	Value	Unit	Source
gf	-501.97	kJ/mol	Joback Method
hf	-868.25	kJ/mol	Joback Method
hfus	36.60	kJ/mol	Joback Method
hvap	71.54	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.836		Crippen Method
mcvol	200.220	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
rinpol	2014.00		NIST Webbook
rinpol	2014.00		NIST Webbook
tb	720.31	K	Joback Method
tc	931.13	K	Joback Method
tf	440.36	K	Joback Method
vc	0.753	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.18	J/mol×K	720.31	Joback Method
cpg	553.63	J/mol×K	755.45	Joback Method
cpg	566.15	J/mol×K	790.58	Joback Method
cpg	577.73	J/mol×K	825.72	Joback Method
cpg	588.39	J/mol×K	860.86	Joback Method
cpg	598.14	J/mol×K	896.00	Joback Method
cpg	606.99	J/mol×K	931.13	Joback Method
dvisc	0.0016623	Pa×s	440.36	Joback Method

dvisc	0.0009440	Pa×s	487.02	Joback Method
dvisc	0.0005918	Pa×s	533.68	Joback Method
dvisc	0.0003999	Pa×s	580.34	Joback Method
dvisc	0.0002865	Pa×s	626.99	Joback Method
dvisc	0.0002150	Pa×s	673.65	Joback Method
dvisc	0.0001674	Pa×s	720.31	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=U390716&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

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