Succinic acid, 2,2-dichloroethyl pent-4-en-2-yl ester

Inchi: InChI=1S/C11H16Cl2O4/c1-3-4-8(2)17-11(15)6-5-10(14)16-7-9(12)13/h3,8-9H,1,4-7H2,2

InchiKey: HZWPFXIEUAKARC-UHFFFAOYSA-N

Formula: C11H16Cl2O4

SMILES: C=CCC(C)OC(=O)CCC(=O)OCC(Cl)Cl

Mol. weight [g/mol]: 283.15

Physical Properties

Property code	Value	Unit	Source
gf	-367.00	kJ/mol	Joback Method
hf	-676.58	kJ/mol	Joback Method
hfus	29.89	kJ/mol	Joback Method
hvap	65.72	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.621		Crippen Method
mcvol	200.910	ml/mol	McGowan Method
pc	2069.88	kPa	Joback Method
rinpol	1698.00		NIST Webbook
rinpol	1698.00		NIST Webbook
tb	674.32	K	Joback Method
tc	870.43	K	Joback Method
tf	386.13	K	Joback Method
vc	0.766	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.82	J/mol×K	674.32	Joback Method
cpg	511.16	J/mol×K	707.00	Joback Method
cpg	522.79	J/mol×K	739.69	Joback Method
cpg	533.72	J/mol×K	772.37	Joback Method
cpg	543.97	J/mol×K	805.06	Joback Method
cpg	553.52	J/mol×K	837.74	Joback Method
cpg	562.39	J/mol×K	870.43	Joback Method
dvisc	0.0018930	Pa×s	386.13	Joback Method

dvisc	0.0009420	Pa×s	434.16	Joback Method
dvisc	0.0005387	Pa×s	482.19	Joback Method
dvisc	0.0003409	Pa×s	530.22	Joback Method
dvisc	0.0002327	Pa×s	578.26	Joback Method
dvisc	0.0001685	Pa×s	626.29	Joback Method
dvisc	0.0001277	Pa×s	674.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391155&Units=SI
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

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