Succinic acid, 2,2-dichloroethyl oct-1-en-3-yl ester

Inchi: InChI=1S/C14H22Cl2O4/c1-3-5-6-7-11(4-2)20-14(18)9-8-13(17)19-10-12(15)16/h4,11-12

InchiKey: KEWRQIXJKHWSRH-UHFFFAOYSA-N

Formula: C14H22Cl2O4

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

Mol. weight [g/mol]: 325.23

Physical Properties

Property code	Value	Unit	Source
gf	-341.74	kJ/mol	Joback Method
hf	-738.50	kJ/mol	Joback Method
hfus	37.66	kJ/mol	Joback Method
hvap	72.39	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.792		Crippen Method
mcvol	243.180	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	2005.00		NIST Webbook
rinpol	2005.00		NIST Webbook
tb	742.96	K	Joback Method
tc	934.83	K	Joback Method
tf	419.94	K	Joback Method
vc	0.934	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	657.49	J/mol×K	742.96	Joback Method
cpg	671.29	J/mol×K	774.94	Joback Method
cpg	684.27	J/mol×K	806.92	Joback Method
cpg	696.43	J/mol×K	838.90	Joback Method
cpg	707.79	J/mol×K	870.87	Joback Method
cpg	718.36	J/mol×K	902.85	Joback Method
cpg	728.15	J/mol×K	934.83	Joback Method
dvisc	0.0014113	Pa×s	419.94	Joback Method

dvisc	0.0006763	Pa×s	473.78	Joback Method
dvisc	0.0003766	Pa×s	527.61	Joback Method
dvisc	0.0002337	Pa×s	581.45	Joback Method
dvisc	0.0001573	Pa×s	635.29	Joback Method
dvisc	0.0001126	Pa×s	689.12	Joback Method
dvisc	0.0000846	Pa×s	742.96	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=U391319&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