Succinic acid, cyclohexylmethyl 2,2-dichloroethyl ester

Inchi: InChI=1S/C13H20Cl2O4/c14-11(15)9-19-13(17)7-6-12(16)18-8-10-4-2-1-3-5-10/h10-11H

InchiKey: OCCZKQPFLUNJLP-UHFFFAOYSA-N

Formula: C13H20Cl2O4

SMILES: O=C(CCC(=O)OCC1CCCCC1)OCC(Cl)Cl

Mol. weight [g/mol]: 311.20

Physical Properties

Property code	Value	Unit	Source
gf	-411.11	kJ/mol	Joback Method
hf	-783.69	kJ/mol	Joback Method
hfus	31.71	kJ/mol	Joback Method
hvap	71.66	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.237		Crippen Method
mcvol	222.530	ml/mol	McGowan Method
pc	2001.91	kPa	Joback Method
rinpol	2098.00		NIST Webbook
rinpol	2098.00		NIST Webbook
tb	743.39	K	Joback Method
tc	955.86	K	Joback Method
tf	432.81	K	Joback Method
vc	0.837	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.10	J/mol×K	743.39	Joback Method
cpg	635.58	J/mol×K	778.80	Joback Method
cpg	649.92	J/mol×K	814.21	Joback Method
cpg	663.15	J/mol×K	849.62	Joback Method
cpg	675.28	J/mol×K	885.03	Joback Method
cpg	686.32	J/mol×K	920.45	Joback Method
cpg	696.28	J/mol×K	955.86	Joback Method
dvisc	0.0015093	Pa×s	432.81	Joback Method

dvisc	0.0007608	Pa×s	484.57	Joback Method
dvisc	0.0004377	Pa×s	536.34	Joback Method
dvisc	0.0002775	Pa×s	588.10	Joback Method
dvisc	0.0001894	Pa×s	639.86	Joback Method
dvisc	0.0001369	Pa×s	691.63	Joback Method
dvisc	0.0001035	Pa×s	743.39	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=U390520&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