Succinic acid, 2,3-dichlorophenyl non-3-en-1-yl ester

Inchi: InChI=1S/C19H24Cl2O4/c1-2-3-4-5-6-7-8-14-24-17(22)12-13-18(23)25-16-11-9-10-15(20
InchiKey: ZTJAFNKVTQDHDU-VOTSOKGWSA-N
Formula: C19H24Cl2O4
SMILES: CCCCCC=CCCOC(=O)CCC(=O)Oc1cccc(Cl)c1Cl
Mol. weight [g/mol]: 387.30

Physical Properties

Property code	Value	Unit	Source
gf	-209.23	kJ/mol	Joback Method
hf	-625.76	kJ/mol	Joback Method
hfus	52.40	kJ/mol	Joback Method
hvap	88.53	kJ/mol	Joback Method
log10ws	-6.48		Crippen Method
logp	5.749		Crippen Method
mcvol	289.870	ml/mol	McGowan Method
pc	1401.69	kPa	Joback Method
rinpol	2755.00		NIST Webbook
rinpol	2755.00		NIST Webbook
tb	902.36	K	Joback Method
tc	1116.64	K	Joback Method
tf	554.43	K	Joback Method
vc	1.117	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.57	J/mol×K	902.36	Joback Method
cpg	855.68	J/mol×K	938.07	Joback Method
cpg	867.74	J/mol×K	973.79	Joback Method
cpg	878.79	J/mol×K	1009.50	Joback Method
cpg	888.86	J/mol×K	1045.21	Joback Method
cpg	897.99	J/mol×K	1080.93	Joback Method
cpg	906.21	J/mol×K	1116.64	Joback Method
dvisc	0.0003555	Pa×s	554.43	Joback Method

dvisc	0.0002099	Pa×s	612.42	Joback Method
dvisc	0.0001357	Pa×s	670.41	Joback Method
dvisc	0.0000941	Pa×s	728.39	Joback Method
dvisc	0.0000688	Pa×s	786.38	Joback Method
dvisc	0.0000526	Pa×s	844.37	Joback Method
dvisc	0.0000416	Pa×s	902.36	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=U391101&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