Succinic acid, 3-methylbut-2-yl 2,4-dichloronaphth-1-yl ester

Inchi: InChI=1S/C19H20Cl2O4/c1-11(2)12(3)24-17(22)8-9-18(23)25-19-14-7-5-4-6-13(14)15(20
InchiKey: DLHBSKJFDDAOBM-UHFFFAOYSA-N
Formula: C19H20Cl2O4
SMILES: CC(C)C(C)OC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]: 383.27

Physical Properties

Property code	Value	Unit	Source
gf	-197.31	kJ/mol	Joback Method
hf	-573.94	kJ/mol	Joback Method
hfus	41.78	kJ/mol	Joback Method
hvap	90.10	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	5.420		Crippen Method
mcvol	274.710	ml/mol	McGowan Method
pc	1629.85	kPa	Joback Method
rinpol	2796.00		NIST Webbook
rinpol	2796.00		NIST Webbook
tb	921.28	K	Joback Method
tc	1150.44	K	Joback Method
tf	574.73	K	Joback Method
vc	1.048	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	790.23	J/mol×K	921.28	Joback Method
cpg	802.23	J/mol×K	959.47	Joback Method
cpg	813.15	J/mol×K	997.67	Joback Method
cpg	823.02	J/mol×K	1035.86	Joback Method
cpg	831.90	J/mol×K	1074.06	Joback Method
cpg	839.83	J/mol×K	1112.25	Joback Method
cpg	846.86	J/mol×K	1150.44	Joback Method
dvisc	0.0005266	Pa×s	574.73	Joback Method

dvisc	0.0003355	Pa×s	632.49	Joback Method
dvisc	0.0002306	Pa×s	690.25	Joback Method
dvisc	0.0001679	Pa×s	748.00	Joback Method
dvisc	0.0001279	Pa×s	805.76	Joback Method
dvisc	0.0001011	Pa×s	863.52	Joback Method
dvisc	0.0000823	Pa×s	921.28	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389902&Units=SI

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